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JAY IGNACIO, P. E.
President

April 26, 2018

2018 APR 26 P 3: 56

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 May 2018

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") Energy Cost Adjustment factor for May 2018 is -0.452 cents per kilowatt-hour ("kWh"), an increase of 0.460 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$174.38, a decrease of \$2.08 compared to rates effective April 1, 2018. The decrease in the typical residential bill is due to the decrease in the Interim Rate Increase (-\$5.22), partially offset by the increase in the Energy Cost Adjustment factor (+\$2.30), the increase in the Purchase Power Adjustment Clause rate (+\$0.11), and the termination of the April 2018 credit for the SolarSaver Adjustment (+\$0.73).

Hawai'i Electric Light's fuel composite cost of generation decreased 19.41 cents per million BTU to 1,294.56 cents per million BTU. The distributed generation increased 0.067 cents per kWh to 14.629 cents per kWh. The composite cost of purchased energy increased 0.410 cents per kWh to 13.026 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, 2018.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST ADJUSTMENT FACTOR

	<u>EFFECTIVE DATES</u>		
	<u>04/01/18</u>	<u>05/01/18</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	1,313.97	1,294.56	(19.41)
Dispersed Generation Energy, ¢/kWh	14.562	14.629	0.067
Purchased Energy, ¢/kWh	12.616	13.026	0.410
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment - ¢/kWh	(0.912)	(0.452)	0.460
<u>Others - "G,J,P,F"</u>			
Energy Cost Adjustment - ¢/kWh	(0.912)	(0.452)	0.460
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$176.46	\$174.38	(\$2.08)
600 KWH Consumption - \$/Bill	\$211.39	\$208.90	(\$2.49)

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

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

<u>Line</u>		
1	Effective Date	May 1, 2018
2	Supercedes Factors of	April 1, 2018

GENERATION COMPONENT

CENTRAL STATION WITH WIND/HYDRO COMPONENT						
FUEL PRICES, ¢/mmbtu						
3						
4	Hill Industrial		1,011.82			
5	Puna Industrial		1,031.99			
6	Keahole Diesel		1,649.23			
6a	Keahole ULSD		1,485.99			
7	Waimea ULSD Diesel		1,478.27			
8	Hilo Diesel		1,620.17			
8a	Hilo (Kanoelehua) ULSD Diesel ¹		1,461.44			
9	Puna Diesel		1,624.40			
10	Wind		0.00			
11	Hydro		0.00			
BTU MIX, %						
12						
13	Hill Industrial		47.311			
14	Puna Industrial		6.796			
15	Keahole Diesel		42.929			
15a	Keahole ULSD		0.633			
16	Waimea ULSD Diesel		0.265			
17	Hilo Diesel		0.000			
17a	Hilo (Kanoelehua) ULSD Diesel ¹		0.030			
18	Puna Diesel		1.475			
19	Wind		0.000			
20	Hydro		0.561			
			100.000			
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmb		1,294.56			
22	% Input to System kWh Mix		37.808			
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	44.231	0.006700		
24	Diesel	0.010424	49.457	0.005155		
25	Other	0.012621	6.312	0.000797		
	(Lines 23, 24, 25): Col(B) x Col(C) = Col(D)					
26	Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)]			0.0126520		
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26))			6.19249		
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)			(0.92546)		
33	Revenue Tax Req Multiplier			1.0975		
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33))			(1.01569)		
				DG ENERGY COMPONENT		
				35	COMPOSITE COST OF DG ENERGY, ¢/kWh	14.629
				36	% Input to System kWh Mix	0.613
				37	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36)	0.08968
				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)	0.08026
				42	Loss Factor	1.067
				43	Revenue Tax Req Multiplier	1.0975
				44	DG FACTOR, ¢/kWh (Line 41 x 42 x 43)	0.09399
				SUMMARY OF		
				TOTAL GENERATION FACTOR, ¢/kWh		
				45	Cntrl Stn+Wind/Hydro (line 34)	(1.01569)
				46	DG (line 44)	0.09399
				47	TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)	(0.92170)

¹ Hilo ULSD same location as Kanoelehua ULSD

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

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

Line	PURCHASED ENERGY COMPONENT		
	PURCHASED ENERGY PRICE, ¢/kWh		
48	HEP		15.205
49	PGV	On Peak	13.503
50	PGV	Off Peak	13.695
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	13.503
56	Wailuku Hydro	Off Peak	13.695
57	Hawi Renewable Dev.	On Peak	13.503
58	Hawi Renewable Dev.	Off Peak	13.695
59	Tawhiri (Pakini Nui)	On Peak	11.910
60	Tawhiri (Pakini Nui)	Off Peak	11.640
61			
62	Small Hydro (>100 KW)	On Peak	13.503
63	Small Hydro (>100 KW)	Off Peak	13.695
64	Sch Q Hydro (<100 KW)		13.230
65	FIT		23.800
	PURCHASED ENERGY KWH MIX, %		
66	HEP		27.870
67	PGV	On Peak	17.461
68	PGV	Off Peak	10.976
69	PGV - Addt'l	On Peak	3.492
70	PGV - Addt'l	Off Peak	2.495
71	PGV - Add'l 8 MW	On Peak	4.976
72	PGV - Add'l 8 MW	Off Peak	5.124
73	Wailuku Hydro	On Peak	2.339
74	Wailuku Hydro	Off Peak	1.768
75	Hawi Renewable Dev.	On Peak	3.843
76	Hawi Renewable Dev.	Off Peak	1.744
77	Tawhiri (Pakini Nui)	On Peak	10.206
78	Tawhiri (Pakini Nui)	Off Peak	6.956
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)		0.215
83	FIT		0.535
			100.000
84	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh		13.026
85	% Input to System kWh Mix		61.579
86	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (Lines (84 x 85))		8.02128
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))		0.82614
91	Loss Factor		1.067
92	Revenue Tax *		1.0975
93	PURCHASED ENERGY FACTOR, ¢/kWh (Lines (90 x 91 x 92))		0.96744

Line	SYSTEM COMPOSITE		
94	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (Lines (47 + 93))		0.04574
95	Not Used		0.000
96	Not Used		0.000
97	ECA Reconciliation Adjustment		(0.498)
98	ECA FACTOR, ¢/kWh (Lines (94 + 95+ 96 + 97))		(0.452)

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

INDUSTRIAL FUEL COSTS:

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	63.7444	63.7444
Land Transportation Cost - \$/BBL	--	1.2709
Industrial Costs For Filing - \$/BBL	63.7444	65.0154
Conversion Factors - mmbtu/BBL	6.30	6.30
Industrial Costs For Filing - ¢/mmbtu	1,011.82	1,031.99

DIESEL FUEL COSTS:

	<u>KEAHOLE</u>	<u>PUNA CT-3</u>	<u>HILO</u>
Average Diesel Fuel Cost - \$/BBL	93.8413	93.8413	93.8413
Land Transportation Cost - \$/BBL	2.8034	1.3488	1.1008
Diesel Costs For Filing - \$/BBL	96.6447	95.1901	94.9421
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
Diesel Costs For Filing - ¢/mmbtu	1,649.23	1,624.40	1,620.17

ULSD FUEL COSTS:

	<u>KEAHOLE</u>	<u>WAIMEA</u>	<u>HILO</u>	<u>DISPERSED GENERATION</u>
Average ULSD Fuel Cost - \$/BBL	82.3496	82.3496	82.3496	82.3496
Land Transportation Cost - \$/BBL	2.7975	2.3551	1.3908	-
ULSD Costs For Filing - \$/BBL	85.1471	84.7047	83.7404	82.3496
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
ULSD Costs For Filing - ¢/mmbtu	1,485.99	1,478.27	1,461.44	1,437.17

Dispersed Generation, cents per kWh

	<u>COMPOSITE COST OF DISP. GEN.</u>
BBIs Fuel:	992.6038
\$/BBI Inv Cost:	82.3496
Fuel \$ (Prod Sim Consumption x Unit Cost)	81,740.51
Net kWh (from Prod Sim)	558,750
cents/kWh:	14.629

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

	SHIPMAN INDUSTRIAL		HILL INDUSTRIAL		COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 03/31/2018	0	0.00	32,400	2,038,373.75			
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	(22,962)	(1,473,947.39)			
Actual	0	0.00	28,676	1,839,656.15			
Consumed: Estimate	0	0.00	22,338	1,536,501.46			
Actual	0	0.00	(25,197)	(1,733,156.08)			
Balance Per G/L 03/31/2018	<u>0</u>	<u>0.00</u>	<u>35,255</u>	<u>2,207,427.89</u>			
Purchases	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0.00	25,755	1,581,803.30			
Consumed	<u>0</u>	<u>0.00</u>	<u>(29,648)</u>	<u>(1,818,001.47)</u>	106.5901	0.0000	106.5901
Balance @ 04/30/2018	0	0.00	31,362	1,971,229.72			
Inv From Offsite/Transfers	0	0.00	0	0.00			
Est'd Inventory Addition	0	0.00	0	0.00			
Fuel Balance @ 04/30/2018	<u>0</u>	<u>0.00</u>	<u>31,362</u>	<u>1,971,229.72</u>			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxx	(1,971,229.72)			
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxx	1,999,152.14			
Total @ 05/01/2018 Avg Price	<u>0</u>	<u>0.00</u>	<u>31,362</u>	<u>1,999,152.14</u>			

Weighted Avg Cost/BBL by Location

#DIV/0!

62.8541

Weighted Avg Cost/BBL @ Avg Cost

#DIV/0!

63.7444

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

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 03/31/2018	5,883	408,631.27	7,212.22			
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	(841)	(74,516.49)	(1,005.62)			
Actual	876	74,507.57	1,327.27			
Consumed: Estimate	716	49,249.49	862.71			
Actual	(556)	(38,244.03)	(669.92)			
Balance Per G/L 03/31/2018	<u>6,078</u>	<u>419,627.81</u>	<u>7,726.66</u>			
Purchases	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	1,639	103,359	1,959.82			
Consumed	(2,698)	<u>(165,440.10)</u>	(3,307.59)	61.3195	1.2259	62.5455
Balance @ 04/30/2018	<u>5,019</u>	<u>357,546.27</u>	<u>6,378.89</u>			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	<u>5,019</u>	<u>357,546.27</u>	<u>6,378.89</u>		<u>1.2709</u>	
Reverse Fuel Balance	XXXXXXXXXXXX	(357,546.27)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	319,933.19	XXXXXXXXXXXX			
Total @ 05/01/2018 Avg Price	<u>5,019</u>	<u>319,933.19</u>	<u>6,378.89</u>			

Weighted Avg Cost/BBL by Location

71.2385

1.2709

Weighted Avg Cost/BBL @ Avg Cost

63.7444

1.2709

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

KEAHOLE CT

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCLUD LT	BARREL LT	TOTAL
Balance at 03/31/2018	52,333.3	2,197,998.0	4,503,742.4	147,532.4			
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	(45,460.9)	(1,909,359.0)	(4,021,740.1)	(129,263.6)			
Actual	42,980.5	1,805,181.0	3,848,466.8	120,287.13			
Consumed: Estimate	38,410.4	1,613,237.0	3,847,478.1	107,633.64			
Actual	(41,262.5)	(1,733,025.0)	(4,133,166.1)	(115,623.9)	100.1676		
Balance Per G/L 03/31/2018	47,000.8	1,974,032	4,044,781.02	130,565.70	86.0578		
Purchases	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfer in	47,319.7	1,987,428.0	4,402,246.0	134,548.9	93.0320		
Consumed	(44,312.0)	(1,861,104.0)	(3,820,407.4)	(124,919.66)	86.2161	2.8191	89.0352
Balance @ 04/30/2018	50,008.5	2,100,356	4,626,619.67	140,194.92	92.5167		
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	50,008.5	2,100,356	4,626,619.67	140,194.92	92.5167		
Reverse Fuel Balance	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	(4,626,619.7)	XXXXXXXXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	4,692,859.0	XXXXXXXXXXXXXXXXXX			
Total @ 05/01/2018 Avg Price	50,008.5	2,100,356	4,692,859.03	140,194.92	93.8413		

Weighted Avg Cost/BBL by Location 92.5167 2.8034

Weighted Avg Cost/BBL @ Avg Cost 93.8413 2.8034

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

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 03/31/2018	3,801.5	159,665.0	362,732.3	5,179.2			
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	(340.6)	(14,305.0)	(25,064.9)	(377.7)			
Actual	837.1	35,159.0	95,546.1	1,252.5			
Consumed: Estimate	360.2	15,128.0	36,079.4	479.9			
Actual	(784.5)	(32,950.0)	(78,583.9)	(1,045.3)			
Balance Per G/L 03/31/2018	3,873.7	162,697	390,709.01	5,488.71			
Purchases		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer in	1,026.6	43,118.0	97,120.1	1,138.3	94.6019		
Consumed	(1,269.2)	(53,307)	(109,426.69)	(1,729.19)	86.2161	1.3624	87.5785
Balance @ 04/30/2018	3,631.1	152,508	378,402.43	4,897.83	104.2103		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 04/30/2018	3,631.1	152,508	378,402.43	4,897.83	104.2103		
Reverse Fuel Balance		XXXXXXXXXXXXXXXXXXXX	(378,402.43)	XXXXXXXXXXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXXXXXXXXXX	340,751.07	XXXXXXXXXXXXXXXXXXXX			
Total @ 05/01/2018 Avg Price	3,631.1	152,508	340,751.07	4,897.83	93.8413		

Weighted Avg Cost/BBL by Location

104.2103 1.3488

Weighted Avg Cost/BBL @ Avg Cost

93.8413 1.3488

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

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCL LT	BARREL LT	TOTAL
Balance at 03/31/2018	1526.4	64,108	135,445	1,668			
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	5.4	228.0	0.0	5.3			
Actual	-13.5	-569.0	0.0	0.0			
Consumed: Estimate	70.9	2979.0	7104.7	88.5			
Actual	-82.2	-3454.0	-8237.6	-102.6			
Balance Per G/L 03/31/2018	1507.0	63,292	134,312.00	1,658.76	89.1282		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	0.0	0.0	0.0	0.0	#DIV/0!		
Consumed	-9.4	-396.0	-812.9	-10.3	86.2161	1.0925	87.3086
Balance @ 04/30/2018	1,497.5	62,896	133,499.11	1,648.46	89.1466		
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	1,497.5	62,896	133,499.11	1,648.46	89.1466		
Reverse Fuel Balance		XXXXXXXXXXXX	XXXXXXXXXXXX -133,499.11	XXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXX	XXXXXXXXXXXX 140,529.54	XXXXXXXXXXXX			
Total @ 05/01/2018 Avg Price	1,497.5	62,896	140,529.54	1,648.46	93.8413		

Weighted Avg Cost/BBL by Location 89.1466 1.1008

Weighted Avg Cost/BBL @ Avg Cost 93.8413 1.1008

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

KEAHOLE DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 03/31/2018	2,172.7	91,253	177,250.98	6,083.43			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(190.0)	(7,980)	(17,157.00)	(540.25)			
Actual	189.4	7,953	16,637.95	0.00			
Transfers out: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate		37	0.00	2.50			
Actual		70	0.00	538.42			
Consumed: Estimate	106.6	4,479	8,735.01	299.03			
Actual	(153.6)	(6,450)	(12,578.89)	(430.70)	81.9091		
Balance Per G/L 03/31/2018	2,127.7	89,362	172,888.05	5,952.44	81.2571		
Purchases	0.0	0	0.00	0.00	0.0000		
Estimated Purchases	0.0	0	0.00	0.00			
Transfer in	(1.4)	(59)	0.00	(3.99)	0.00		
Consumed	(104.8)	(4,401)	(8,589.63)	(293.40)	81.9733	2.8000	84.7732
Balance @ 04/30/2018	2,021.5	84,902	164,298.42	5,655.05	81.2765		
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	2,021.5	84,902	164,298.42	5,655.05	81.2765		
Reverse Fuel Balance	XXXXXXXXXXXX	XXXXXXXXXXXX	(164,298.42)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	XXXXXXXXXXXX	166,467.72	XXXXXXXXXXXX			
Total @ 05/01/2018 Avg Price	2,021.5	84,902	166,467.72	5,655.05	82.3496		

Weighted Avg Cost/BBL by Location

81.2765 2.7975

Weighted Avg Cost/BBL @ Avg Cost

82.3496 2.7975

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

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 03/31/2018	1,538.5	64,617.0	124,857.9	3,626.53			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Purchases: Estimate		0	0.00	0.00			
Actual		0.0	(460.0)	0.00			
Transfers out: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate	0.8	35	0.00	0.00			
Actual	(0.6)	(27)	0.00	0.00			
Consumed: Estimate	48.5	2,037	3,972.59	114.30			
Actual	(86.0)	(3,614)	(7,048.08)	(202.79)			
Balance Per G/L 03/31/2018	1,501.1	63,048	121,322.45	3,538.04	80.8201		
ULSD Purchases	188.9	7,935	17,624.15	447.53	93.2847		
Estimated Purchases	-	0	0.00	0.00			
Transfer in	XXXXXXXXXXXX	91	0.00	0.00	#DIV/0!		
Consumed	(107.5)	(4,517)	(8,816.03)	(253.51)	81.9733	2.3572	84.3304
Balance @ 04/30/2018	1,584.7	66,557	130,130.57	3,732.06	82.1173		
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	1,584.7	66,557	130,130.57	3,732.06	82.1173		
Reverse Fuel Balance	XXXXXXXXXXXX	XXXXXXXXXXXX	(130,130.57)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	XXXXXXXXXXXX	130,498.60	XXXXXXXXXXXX			
Total @ 05/01/2018 Avg Price	1,584.7	66,557	130,498.60	3,732.06	82.3496		

Weighted Avg Cost/BBL by Location

82.1173 2.3551

Weighted Avg Cost/BBL @ Avg Cost

82.3496 2.3551

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

KANOELEHUA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP		
Balance at 03/31/2018	1,455.3	61,122.0	121,535.5	1,997.7		
Less: Est'd Inventory Addition	0.0	0	0.00	0.00		
Purchases: Estimate	(190.0)	(7,980)	(17,157.00)	(185.93)		
Actual	189.4	7,956	17,104.36	0.00		
Transfers out: Estimate			x	x	x	
Actual			x	x	x	
Transfers in: Estimate		0	0.00	0.00		
Actual		(686)	0.00	185.37		
Consumed: Estimate	0.0	2,527	967.04	26.58		
Actual	(59.8)	(2,511)	(4,896.99)	(71.82)		
Balance Per G/L 03/31/2018	1,438.8	60,428	117,552.93	1,951.94		
ULSD Purchases	0	0	0.00	0.00	#DIV/0!	
Estimated Purchases	0	-	-	-		
Transfer in	0	0	0.00	0.00		
Consumed	(54.4)	(2,285)	(967.04)	(26.58)	81.97325169	1.3727
Balance @ 04/30/2018	1,384.4	58,143	116,585.89	1,925.36		
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	1,384.4	58,143	116,585.89	1,925.36		
Reverse Fuel Balance	x	x	(116,585.89)	x		
Fuel Balance @ Avg Price	x	x	114,001.23	x		
Total @ 05/01/2018 Avg Price	1,384.4	58,143	114,001.23	1,925.36		

Weighted Avg Cost/BBL by Location

84.2166 1.3908

Weighted Avg Cost/BBL @ Avg Cost

82.3496 1.3908

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

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 03/31/2018	96.0	4,031	7,735.94	
Less: Est'd Inven Addition	0.0	XXXXXXXXXXXXXXXXXXXX		
Purchases: Estimate	(11.9)	(499)	(1,072.80)	
Actual	11.9	499	1,072.85	
Consumed: Estimate	8.0	337	657.22	
Actual	(12.4)	(520)	(1,014.11)	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Balance Per G/L 03/31/2018	91.62	3,848	7,379.10	80.5411
Purchases	10.6	447	992.83	93.2860
Transfer out	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Consumed	(5.2)	(218)	(425.48)	81.9733
Balance @ 04/30/2018	97.1	4,077	7,946.45	81.8619
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 04/30/2018	97.1	4,077	7,946.45	
Reverse Fuel Balance	XXXXXXXXXX	XXXXXXXXXX	(7,946.45)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXX	XXXXXXXXXX	7,993.79	xxxx
Total @ 05/01/2018 Avg Price	97.1	4,077	7,993.79	82.3496

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

TYPE OF OIL BURNED

INDUSTRIAL *	<u>Hill Industrial</u>		<u>Puna Industrial</u>	
	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax ¹	55.83	3.5165	55.83	3.5165
Ocean Transportation	50.00	3.0359	48.19	3.0359
Storage	29.89	2.0521	32.57	2.0521
Wharfage	5.60	0.3400	5.40	0.3400
Fees ²	2.26	0.1425	2.26	0.1800
	<u>Hilo Diesel</u>		<u>Waimea Diesel</u>	
DIESEL *	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax ¹	90.40	5.2973	90.40	5.2973
Ocean Transportation	51.81	1.9761	51.81	3.0359
Storage	27.20	1.5937	27.20	1.5937
Wharfage	5.80	0.3400	5.80	0.3400
Fees ²	3.33	0.1950	3.33	0.1950
	<u>Kona Diesel</u>		<u>CT3 Diesel</u>	
	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax ¹	90.40	5.2973	90.40	5.2973
Ocean Transportation	51.81	3.0359	51.81	3.0359
Storage	27.20	1.5937	27.20	1.5937
Wharfage	5.80	0.3400	5.80	0.3400
Fees ²	3.33	0.1950	3.33	0.1950
	<u>ULSD</u>			
ULSD **	<u>¢/MBTU</u>	<u>\$/BBL</u>		
Tax ¹	26.38	1.9686		
Ocean Transportation	0.00	0.0000		
Storage	0.00	0.0000		
Wharfage	0.00	0.0000		
Fees ²	3.33	0.1950		

¹ Tax includes HGET, Hawaii Use Tax, Liquid Fuel Tax, LUST Tax and Environmental Response Tax.

² 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 May 1, 2018

		<u>May 1, 2018</u> <u>(¢/kWh)</u>	<u>Floor Rates</u> <u>(¢/kWh)</u>
PGV (25 MW)	- on peak	13.503	6.560
PGV (22 MW)	- off peak	13.695	5.430
WAILUKU HYDRO	- on peak	13.503	7.240
	off peak	13.695	5.970
Other: (<100 KW)	Sch Q Rate	13.230	
		<u>May 1, 2018</u> <u>(¢/kWh)</u>	<u>Floor Rates</u> <u>(¢/kWh)</u>
HEP		15.205	
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
May 1, 2018

<u>Line No.</u>	<u>Description</u>	<u>Amount</u>
1	Amount to be (returned) or collected	(\$1,153,900)
2	Monthly Amount ($\frac{1}{3}$ x Line 1)	(\$384,633)
3	Revenue Tax Divisor	0.91115
4	Total (Line 2 / Line 3)	(\$422,141)
5	Estimated MWh Sales (May 1, 2018)	84,769 mwh
6	Adjustment (Line 4 / Line 5)	(0.498) ¢/kwh

HAWAII ELECTRIC LIGHT COMPANY, INC.
2018 FUEL OIL ADJUSTMENT RECONCILIATION SUMMARY
(Thousand \$)

LINE	DESCRIPTION	Info Only	collectn by company*	Basis for Recon	Collection or Refund by Company
		March 2018 YTD Total No Deadband		March 2018 YTD Total Deadband	
ACTUAL COSTS:					
1	Generation	\$18,485.3		\$18,485.3	
2	Distributed Generation	\$1.7		\$1.7	
3	Purch Power	\$18,482.4		\$18,482.4	
4	TOTAL	<u>\$36,969.4</u>		<u>\$36,969.4</u>	
FUEL FILING COST (1)					
5	Generation	\$18,757.0		\$18,681.7	
6	Distributed Generation	\$1.7		\$1.7	
7	Purch Power	\$18,482.4		\$18,482.4	
8	TOTAL	<u>\$37,241.1</u>		<u>\$37,165.7</u>	
BASE FUEL COST					
9	Generation	\$17,702.0		\$17,702.0	
10	Distributed Generation	\$0.7		\$0.7	
11	Purch Power	\$20,175.5		\$20,175.5	
12	TOTAL	<u>\$37,878.2</u>		<u>\$37,878.2</u>	
13	FUEL-BASE COST (Line 8-12)			-\$712.5	
14	ACTUAL FOA LESS TAX			-\$346.7	
15	Less: FOA reconciliation adj for prior year			-\$788.1	
16	ADJUSTED FOA LESS TAX			<u>\$441.4</u>	
17	FOA-(FUEL-BASE) (Line 16-13)		\$1,078.5 over	\$1,153.9 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>\$1,078.5 over</u>	<u>\$1,153.9 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
2018**

Jan 1 - Mar 2018

N YTD

Industrial

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	40,006,126
Industrial Consumption (Recorded), MMBTU	b	581,563
Industrial Efficiency Factor (Recorded), BTU/kWh	c	14,537
Lower limit of Industrial Deadband, BTU/kWh	e	15,048
Higher limit of Industrial Deadband, BTU/kWh	g	15,248
Industrial Efficiency Factor for cost-recovery, BTU/kWh	h	15,048

Diesel

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	75,587,596
Diesel Consumption (Recorded), MMBTU	b	785,735
Diesel Efficiency Factor (Recorded), BTU/kWh	c	10,395
Lower limit of Diesel Deadband, BTU/kWh	e	10,324
Higher limit of Diesel Deadband, BTU/kWh	g	10,524
Diesel Efficiency Factor for cost-recovery, BTU/kWh	h	10,395

Biodiesel

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	0
Lower limit of Biodiesel Deadband, BTU/kWh	e	-100
Higher limit of Biodiesel Deadband, BTU/kWh	g	100
Biodiesel Efficiency Factor for cost-recovery, BTU/kWh	h	0

Hydro

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	4,508,662
Hydro Consumption (Recorded), MMBTU	b	53,176
Hydro Efficiency Factor (Recorded), BTU/kWh	c	11,794
Lower limit of Hydro Deadband, BTU/kWh	e	12,521
Higher limit of Hydro Deadband, BTU/kWh	g	12,721
Hydro Efficiency Factor for cost-recovery, BTU/kWh	h	12,521

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

HAWAII ELECTRIC LIGHT COMPANY, INC.
GENERATION FUEL FILING COST AND GENERATION BASE FUEL COST
WITHOUT and WITH DEADBAND
2018

	Without Deadband	With Deadband
	<u>Jan 1 - Mar 31</u>	<u>Jan 1 - Mar 31</u>
<u>INDUSTRIAL FUEL FILING COST</u>		
Industrial Portion of Recorded Sales , kWh	40,006,126	40,006,126
Industrial Efficiency Factor (mmbtu/kwh)	0.015148	0.015048
Mmbtu adjusted for Sales Efficiency Factor	606,013	602,012
\$/mmbtu	<u>\$10.0197</u>	<u>\$10.0197</u>
TOTAL INDUSTRIAL \$000s TO BE RECOVERED	\$6,072.053	\$6,031.968
<u>DIESEL FUEL FILING COST</u>		
Diesel Portion of Recorded Sales, kWh	75,587,596	75,587,596
Diesel Efficiency Factor (mmbtu/kwh)	0.010424	0.010395
Mmbtu adjusted for Sales Efficiency Factor	787,925	785,733
\$/mmbtu	<u>\$16.0992</u>	<u>\$16.0992</u>
TOTAL DIESEL \$000s TO BE RECOVERED	\$12,684.973	\$12,649.682
<u>HYDRO FUEL FILING COST</u>		
Hydro Portion of Recorded Sales , kWh	4,508,662	4,508,662
Hydro Efficiency Factor (mmbtu/kwh)	0.012621	0.012521
Mmbtu adjusted for Sales Efficiency Factor	56,904	56,453
\$/mmbtu	<u>\$0.0000</u>	<u>\$0.0000</u>
TOTAL HYDRO \$000s TO BE RECOVERED	\$0.000	\$0.000
TOTAL GENERATION FUEL FILING COST, \$000s	\$18,757.0	\$18,681.7
<u>CALCULATION OF GENERATION BASE FUEL COST</u>		
TOTAL GENERATION BASE FUEL COST, \$000s	\$17,702.0	\$17,702.0
TOTAL GENERATION FUEL FILING COST, \$000s YTD	\$18,757.0	\$18,681.7
TOTAL GENERATION BASE FUEL COST YTD	\$17,702.0	\$17,702.0

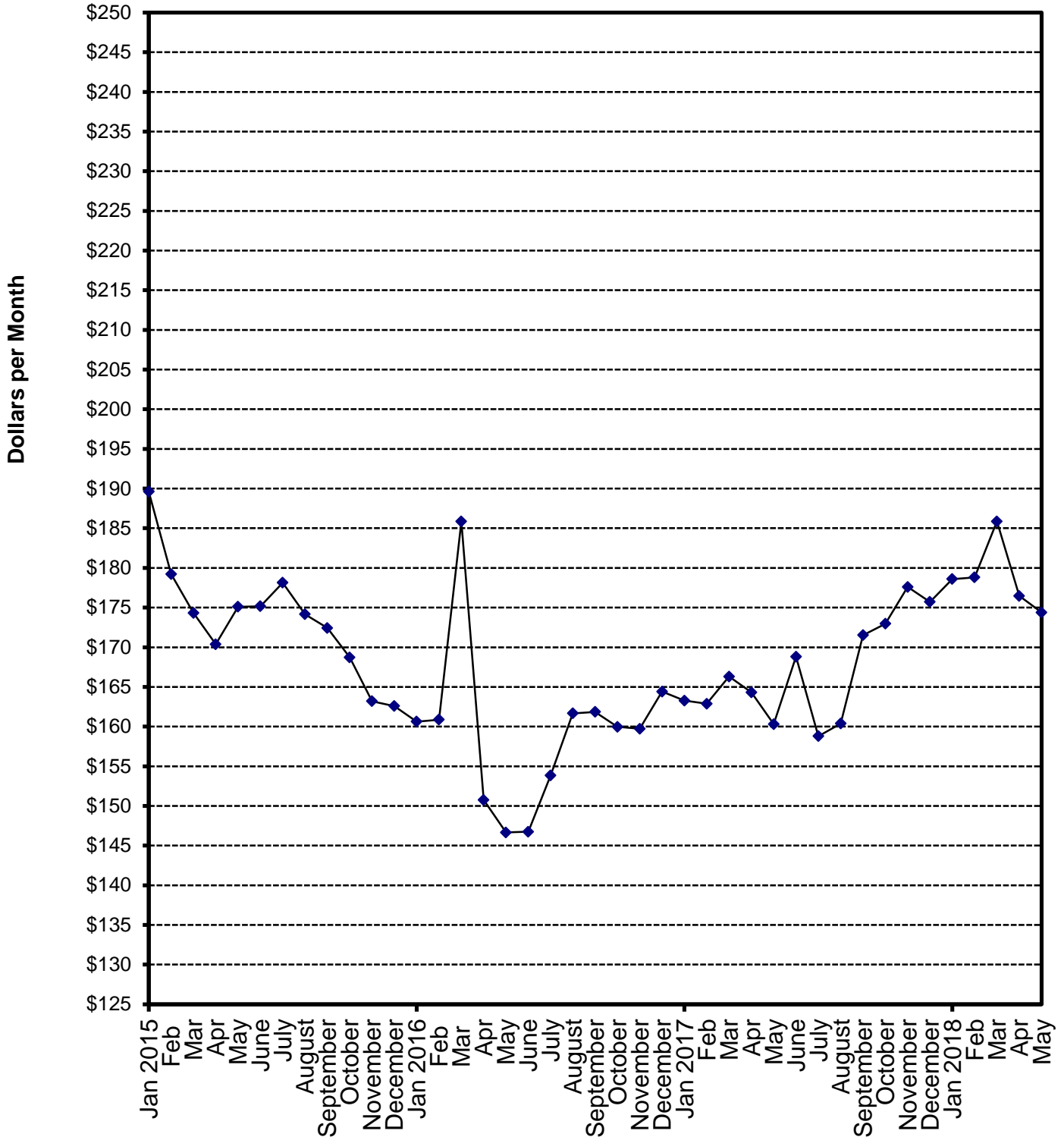
HAWAII ELECTRIC LIGHT COMPANY, INC.
2018 Cumulative Reconciliation Balance

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)	(242,224)	1,462
February	825,100	[4]	(29,783)	854,883	(275,033)	(279,869)	576,476
March					(275,033)	(283,895)	292,581
April					(275,033)		
May	1,153,900	(1)	(17,855)	1,171,755	(384,633)		

NOTES:

- Col(1): Quarterly FOA reconciliation amounts. (Refer to Attachment 6)
A positive number is an over-collection. A negative number is an under-collection.
- Col(2): FOA reconciliation adjustment variance accumulated during the last three months, starting with the fourth prior month; the difference between the estimated recorded sales used to derive the \$/kwh adjustment and the actual recorded sales.
(Col(5)-Col(4))
- Col(3): FOA reconciliation generated in the current quarter. The YTD FOA reconciliation difference minus the adjustment variance. Col(1)-Col(2)
- Col(4): Amount that the FOA reconciliation adjustment is trying to collect. (Col(1) * 1/3)
- Col(5): Actual collected amount. (recorded sales * \$/kwh adjustment/1.09751)
- Col(6): Cumulative balance of the FOA reconciliation (Previous balance + Col(3) + Col(5))

Hawaii Electric Light Company, Inc. Residential Bill at 500 KWH/Month Consumption



**HAWAII ELECTRIC LIGHT COMPANY, INC.
FUEL OIL ADJUSTMENT FACTOR DATA**

<u>EFFECTIVE DATE</u>	<u>FUEL FACTOR</u> <u>CENTS / KWH</u>		
	<u>RESIDENTIAL & COMMERCIAL</u>	<u>RESIDENTIAL BILL (\$)</u> <u>@ 500 KWH</u>	<u>@ 600 KWH</u>
January 1, 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
March 1, 2018	0.816	185.87	222.68
April 1, 2018	-0.912	176.46	211.39
May 1, 2018	-0.452	174.38	208.90

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

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
04/09/12	FINAL RATE INCREASE (1.28%), DOCKET NO. 2009-0164 (2010 TEST YEAR)	
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
5/1/2017	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
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
7/1/2017	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.4244 CENTS/KWH
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
8/31/2017-4/30/18	INTERIM RATE INCREASE 2016	5.8800 PERCENT ON BASE
8/31/2017	RBA RATE ADJUSTMENT	0.6313 CENTS/KWH
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
1/1/18-6/30/18	GREEN INFRASTRUCTURE FEE	1.3400 DOLLARS/MONTH
2/1/18-2/28/18	PURCHASED POWER ADJUSTMENT CLAUSE	2.3101 CENTS/KWH
3/1/18 - 3/31/18	PURCHASED POWER ADJUSTMENT CLAUSE	2.3258 CENTS/KWH
04/1/18-04/30/18	PURCHASED POWER ADJUSTMENT CLAUSE	2.3184 CENTS/KWH
04/1/18-04/30/18	SOLARSAVER ADJUSTMENT	-0.1464 CENTS/KWH
05/1/18-05/31/18	PURCHASED POWER ADJUSTMENT CLAUSE	2.3395 CENTS/KWH
05/1/18-05/31/18	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
5/1/2018	INTERIM RATE INCREASE 2016	2.5000 PERCENT ON BASE

**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		
	04/01/18	05/01/18	04/01/18	05/01/18	Difference
Base Rates					
effective date:	4/9/2012	4/9/2012			
Base Fuel Energy Charge	¢/kwh 16.2487	16.2487	\$81.24	\$81.24	\$0.00
Non-fuel Fuel Energy Charge	¢/kwh		\$62.72	\$62.72	\$0.00
First 300 kWh per month	¢/kwh 11.2019	11.2019	\$33.61	\$33.61	\$0.00
Next 700 kWh per month	¢/kwh 14.5537	14.5537	\$29.11	\$29.11	\$0.00
Customer Charge	\$ 10.50	10.50	\$10.50	\$10.50	\$0.00
Total Base Charges			\$154.46	\$154.46	\$0.00
Interim Rate Increase 2016 TY	% on base 5.8800%	2.5000%	\$9.08	\$3.86	-\$5.22
RBA Rate Adjustment	¢/kwh 0.6313	0.6313	\$3.16	\$3.16	\$0.00
Purchased Power Adj. Clause	¢/kwh 2.3184	2.3395	\$11.59	\$11.70	\$0.11
PBF Surcharge	¢/kwh 0.4244	0.4244	\$2.12	\$2.12	\$0.00
DSM Adjustment	¢/kwh 0.0000	0.0000	\$0.00	\$0.00	\$0.00
SolarSaver Adjustment	¢/kwh (0.1464)	0.0000	-\$0.73	\$0.00	\$0.73
Energy Cost Adjustment	¢/kwh (0.9120)	(0.4520)	-\$4.56	-\$2.26	\$2.30
Green Infrastructure Fee	\$ 1.3400	1.3400	\$1.34	\$1.34	\$0.00
Avg Residential Bill at 500 kwh			\$176.46	\$174.38	

Increase (Decrease -)	-\$2.08
% Change	-1.18%

	Rate		Charge (\$) at 600 Kwh		
	04/01/18	05/01/18	04/01/18	05/01/18	Difference
Base Rates					
effective date:	4/9/2012	4/9/2012			
Base Fuel/Energy Charge	¢/kwh 16.2487	16.2487	\$97.49	\$97.49	\$0.00
Non-fuel Fuel Energy Charge	¢/kwh		\$77.27	\$77.27	\$0.00
First 300 kWh per month	¢/kwh 11.2019	11.2019	\$33.61	\$33.61	\$0.00
Next 700 kWh per month	¢/kwh 14.5537	14.5537	\$43.66	\$43.66	\$0.00
Customer Charge	\$ 10.50	10.50	\$10.50	\$10.50	\$0.00
Total Base Charges			\$185.26	\$185.26	\$0.00
Interim Rate Increase 2016 TY	% on base 5.8800%	2.5000%	\$10.89	\$4.63	-\$6.26
RBA Rate Adjustment	¢/kwh 0.6313	0.6313	\$3.79	\$3.79	\$0.00
Purchased Power Adj. Clause	¢/kwh 2.3184	2.3395	\$13.91	\$14.04	\$0.13
PBF Surcharge	¢/kwh 0.4244	0.4244	\$2.55	\$2.55	\$0.00
DSM Adjustment	¢/kwh 0.0000	0.0000	\$0.00	\$0.00	\$0.00
SolarSaver Adjustment	¢/kwh (0.1464)	0.0000	-\$0.88	\$0.00	\$0.88
Energy Cost Adjustment	¢/kwh (0.9120)	(0.4520)	-\$5.47	-\$2.71	\$2.76
Green Infrastructure Fee	\$ 1.3400	1.3400	\$1.34	\$1.34	\$0.00
Avg Residential Bill at 600 kwh			\$211.39	\$208.90	

Increase (Decrease -)	-\$2.49
% Change	-1.18%