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JAY IGNACIO, P. E. President

April 27, 2016

2016 APR 27 P 3: 42

PUBLIC UTILITIES COMMISSION

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

Dear Commissioners:

Subject: Hawai'i Electric Light Energy Cost Adjustment Factor for May 2016

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") energy cost adjustment factor for May 2016 is -5.554 cents per kilowatt-hour ("kWh"), a decrease of 0.839 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$146.66, a decrease of \$4.10 compared to the rates effective April 1, 2016. The decrease in the typical residential bill is due to the decrease in the energy cost adjustment factor (-\$4.19), the decrease in the Purchased Power Adjustment Clause rate (-\$1.30), and the termination of the April 2016 credit for the SolarSaver Adjustment (+\$1.39).

Hawai'i Electric Light's fuel composite cost of generation increased 21.14 cents per million BTU to 727.33 cents per million BTU. The composite cost of distributed generation increased 0.931 cents per kWh to 11.951 cents per kWh. The composite cost of purchased energy increased 0.264 cents per kWh to 11.172 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, 2016.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

ENERGY COST ADJUSTMENT FACTOR

	EFFECTIVE	DATES	
	<u>4/01/16</u>	<u>5/01/16</u>	<u>Change</u>
Composite Cost			
Generation, ¢/mmbtu Dispersed Generation Energy, ¢/kWh Purchased Energy, ¢/kWh	706.19 11.020 10.908	727.33 11.951 11.172	21.14 0.931 0.264
Residential Schedule "R"			
Energy Cost Adjustment - ¢/kWh	(4.715)	(5.554)	(0.839)
Others - "G,J,P,F"			
Energy Cost Adjustment - ¢/kWh	(4.715)	(5.554)	(0.839)
Residential Customer with:			
500 KWH Consumption - \$/Bill 600 KWH Consumption - \$/Bill	\$150.76 \$180.57	\$146.66 \$175.64	(\$4.10) (\$4.93)

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

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

Line

1 Effective Date May 1, 2016 2 Supercedes Factors of April 1, 2016

GENERATION COMPONENT

C	ENTRAL STATION WITH WIND/HYDRO COMP	ONENT	
	FUEL PRICES, ¢/mmbtu		
3			
4	Hill Industrial	466.12	
5	Puna Industrial	492.71	
6	Keahole Diesel	998.57	
	Keahole ULSD	1,249.87	
	Waimea ULSD Diesel	1,241.01	
8	Hilo Diesel Hilo (Kanoelehua) ULSD Diesel ¹	965.64	
		1,217.06	DO ENERGY COMPONENT
9	Puna Diesel	974.59	DG ENERGY COMPONENT
10	Wind	0.00	35 COMPOSITE COST OF DG
11	Hydro	0.00	ENERGY, ¢/kWh 11.951
	BTU MIX, %		36 % Input to System kWh Mix 0.339
12	BTO WIIA, 70		37 WEIGHTED COMPOSITE DG ENERGY COST,
13	Hill Industrial	42.620	¢/kWh (Lines 35 x 36) 0.04051
14	Puna Industrial	0.000	ψ/κνντι (Lines 33 x 30) 0.04031
15	Keahole Diesel	48.267	38 BASE DG ENERGY COMPOSITE COS 15.702
15a	Keahole ULSD	1.638	10.702
16	Waimea ULSD Diesel	1.472	39 Base % Input to System kWh Mix 0.06
17	Hilo Diesel	0.285	40 WEIGHTED BASE DG ENERGY COST,
17a	Hilo (Kanoelehua) ULSD Diesel ¹	0.427	10 1121011125 B/102 50 2.1.2.1.0 1 0001,
174	Puna Diesel	0.000	¢/kWh (Line 38 x 39) 0.00942
19	Wind	0.000	¢/kvvii (Line 30 x 39) 0.00942
20	Hydro	5.291	41 Cost Less Base (Line 37 - 40) 0.03109
20	Tiyato	100.000	42 Loss Factor 1.067
21	COMPOSITE COST OF GENERATION,	100.000	43 Revenue Tax Reg Multiplier 1.0975
	CENTRAL STATION + WIND/HYDRO ¢/mmb	727.33	44 DG FACTOR, ¢/kWh
22	% Input to System kWh Mix	42.406	(Line 41 x 42 x 43) 0.03641
	, , , , , , , , , , , , , , , , , , , ,		()
	EFFICIENCY FACTOR, mmbtu/kWh		
	(A) (B) (C)	(D)	
	Percent of		
	Eff Factor Centrl Stn +	Weighted	
	Fuel Type mmbtu/kwh Wind/Hydro	Eff Factor	
23	Industrial 0.015148 36.455	0.005522	
24	Diesel 0.010424 58.255	0.006073	
25	Other 0.012621 5.291	0.000668	
200	(Lines 23, 24, 25): Col(B) x Col(C) = Col(D)		
26	Weighted Efficiency Factor, mmbtu/kWh	0.0122620	
	[Lines 23(D) + 24(D) + 25(D)]	0.0122630	
27	WEIGHTED COMPOSITE CENTRAL STATION	.1 +	
21	WIND/HYDRO GENERATION COST, ¢/kWh	•	
	(Lines (21 x 22 x 26))	3.78230	
	(Lines (21 x 22 x 20))	0.70200	
28	BASE CENTRAL STATION + WIND/HYDRO		
	GENERATION COST, ¢/mmbtu	1,224.44	
29	Base % Input to Sys kWh Mix	46.06	
	Efficiency Factor, mmbtu/kwh	0.012621	
	WEIGHTED BASE CENTRAL STATION +		
	WIND/HYDRO GENERATION COST ¢/kWh		
	(Lines (28 x 29 x 30))	7.11795	
	·		SUMMARY OF
	COST LESS BASE (Line 27 - 31)	(3.33565)	TOTAL GENERATION FACTOR, ¢/kWh
33	Revenue Tax Req Multiplier	1.0975	45 Cntrl Stn+Wind/Hydro (line 34) (3.66088)
34	CENTRAL STATION + WIND/HYDRO		46 DG (line 44) 0.03641
	GENERATION FACTOR,		47 TOTAL GENERATION FACTOR,
	¢/kWh (Line (32 x 33))	(3.66088)	¢/kWh (lines 45 + 46) (3.62447)

 $^{^{\}rm 1}\,$ Hilo ULSD same location as Kanoelehua ULSD

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

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

<u>Line</u>	PURCHASED EI	NERGY COMPON	<u>ENT</u>
	PURCHASED ENERGY P	RICE ¢/kWh	
48	HEP	ICIOL, WIKWII	11.618
49	PGV	On Peak	8.524
50	PGV	Off Peak	9.808
51	PGV - Add'l 5 MW	On Peak	12.480
52	PGV - Add'l 5 MW	Off Peak	12.480
53	PGV - Add'l 8 MW	On Peak	9.520
54	PGV - Add'l 8 MW	Off Peak	6.340
	Wailuku Hydro	On Peak	8.524
	Wailuku Hydro	Off Peak	9.808
	Hawi Renewable Dev.	On Peak	8.524
	Hawi Renewable Dev.	Off Peak	9.808
	Tawhiri (Pakini Nui)	On Peak	16.440
	Tawhiri (Pakini Nui)	Off Peak	13.630
61 62	Small Hydro (>100 KW)	On Peak	8.524
	Small Hydro (>100 KW)	Off Peak	9.808
	Sch Q Hydro (<100 KW)	Oli Feak	8.780
	FIT		23.800
	PURCHASED ENERGY K	WH MIX, %	
	HEP		25.028
	PGV	On Peak	20.612
	PGV	Off Peak	12.543
	PGV - Addt'l	On Peak	3.700
_	PGV - Addt'l PGV - Add'l 8 MW	Off Peak	2.947
	PGV - Add'l 8 MW	On Peak Off Peak	1.454 3.369
	Wailuku Hydro	On Peak	2.815
	Wailuku Hydro	Off Peak	1.744
	Hawi Renewable Dev.	On Peak	3.828
76	Hawi Renewable Dev.	Off Peak	0.943
77	Tawhiri (Pakini Nui)	On Peak	12.705
	Tawhiri (Pakini Nui)	Off Peak	7.553
79			
80	Small Hydro (>100 KW)	On Peak	0.000
81	Small Hydro (>100 KW)	Off Peak	0.000
	Sch Q Hydro (<100 KW)		0.219
83	FIT		0.540
			100.000
84	COMPOSITE COST OF P	URCHASED	
ັ່	ENERGY, ¢/kWh		11.172
85	% Input to System kWh Mi	x	57.255
	WEIGHTED COMPOSITE		GY
	COST, ¢/kWh (Lines (84	x 85))	6.39653
87	BASE PURCHASED ENER	DCV	
67	COMPOSITE COST, ¢/k\		13.354
88	Base % Input to Sys kWh I		53.88
	WEIGHTED BASE PURCH		30.00
	COST, ¢/kWh (Lines (87		7.19514
22	000715005405#:	(00 00))	(0.7000)
	COST LESS BASE (Lines Loss Factor	(86 - 89))	(0.79861)
	Revenue Tax Req Multiplie	ar.	1.067 1.0975
	PURCHASED ENERGY FA		(0.93520)
93	(Lines (90 x 91 x 92))	TOTOIT, WINVIII	(0.00020)
	(Lines (00 x 31 x 32))		

<u>Line</u> <u>SYSTEM COMPOSITE</u>

94	GENERATION AND PURCHASED E	NERGY
	FACTOR, ¢/kWh (Lines (47 + 93))	(4.55967)
95	Not Used	0.000
96	Not Used	0.000
97	ECA Reconciliation Adjustment	(0.994)
98	ECA FACTOR, ¢/kWh	(5.554)
	(Lines (94 + 95+ 96 + 97))	

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

INDUSTRIAL FUEL COSTS: Average Industrial Fuel Cost - \$/BBL Land Transportation Cost - \$/BBL	<u>HILO</u> 29.3656 	<u>PUNA</u> 29.3656 1.6754		
Industrial Costs For Filing - \$/BBL Conversion Factors - mmbtu/BBL	29.3656 6.30	31.0410 6.30		
Industrial Costs For Filing - ¢/mmbtu	466.12	492.71		
DIESEL FUEL COSTS: Average Diesel Fuel Cost - \$/BBL Land Transportation Cost - \$/BBL	KEAHOLE 55.9039 2.6125	PUNA CT-3 55.9039 1.2068	HILO 55.9039 0.6829	
Diesel Costs For Filing - \$/BBL Conversion Factors - mmbtu/BBL	58.5164 5.86	57.1107 5.86	56.5867 5.86	
Diesel Costs For Filing - ¢/mmbtu	998.57	974.59	965.64	
ULSD FUEL COSTS: Average ULSD Fuel Cost - \$/BBL Land Transportation Cost - \$/BBL	KEAHOLE 68.8075 2.8101	WAIMEA 68.8075 2.3021	HILO 68.8075 0.9299	DISPERSED GENERATION 68.8075
ULSD Costs For Filing - \$/BBL Conversion Factors - mmbtu/BBL	71.6176 5.73	71.1096 5.73	69.7373 5.73	68.8075 5.73
ULSD Costs For Filing - ¢/mmbtu	1,249.87	1,241.01	1,217.06	1,200.83

Dispersed Generation, cents per kWh

BBIs Fuel:	
\$/BBI Inv Cost:	
Fuel \$ (Prod Sim Consumption x Unit Cost)	
Net kWh (from Prod Sim)	
cents/kWh:	

COMPOSITE COST
OF DISP. GEN.
541.8848
68.8075
37,285.73
312,000
11.951

Estimated Weighted Average April 2016

SHIPMAN INDUSTRIAL HILL INDUSTRIAL

	SHIPIVIAIN	INDUSTRIAL	HILL INDUS	IRIAL				
						COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total		
Balance at 03/31/2016	0	0.00	44,371	1,299,616.95				
Less: Est'd Inventory Addn			0	0.00				
Purchases: Estimate	xxxxxx xxx	xxxxxxxxxx	xxxxxxx xx	xxxxxxxxxx				
Actual	XXXXXX XXX	(XXXXXXXXXXXXX	xxxxxxx xx	xxxxxxxxxxx				
Transfers out: Estimate	xxxxxx xxx	xxxxxxxxxx	xxxxxxx xx	xxxxxxxxxx				
Actual	XXXXXX XXX	XXXXXXXXXXX	XXXXXXXX XX	XXXXXXXXXXXX				
Transfers in: Estimate	0	0.00	(53,866)	(1,585,684.83)				
Actual	0	0.00	51,386	1,528,098.38				
Consumed: Estimate	0	0.00	42,213	1,271,801.71				
Actual	0	0.00	(44,115)	(1,317,737.11)				
Balance Per G/L 03/31/2016	0	0.00	39,989	1,196,095.10				
Purchases	xxxxxx xxx	xxxxxxxxxxx	xxxxxxx xx	xxxxxxxxxxx				
Transfer out	xxxxxx xxx	xxxxxxxxxx	xxxxxxx xx	xxxxxxxxxxx				
Transfer in	0	0.00	30,359	860,085.88				
Consumed	0	0.00	(36,537)	(1,075,419.10)	106.5901	0.0000	106.5901	
Balance @ 04/30/2016	0	0.00	33,811	980,761.88				
Inv From Offsite/Transfers	0	0.00	0	0.00				
Est'd Inventory Addition	0	0.00	0	0.00				
Fuel Balance @ 04/30/2016	0	0.00	33,811	980,761.88				
Reverse Fuel Balance	xxxxxx	0.00	xxxxxxx	(980,761.88)				
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxxx	992,879.28				
Total @ 9/30/2013 Avg Price	0	0.00	33,811	992,879.28				

Weighted Avg Cost/BBL by Location #DIV/0! 29.0072
Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 29.3656

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

PUNA INDUSTRIAL

			LAND	COST PER BARREL		
	BBL	COST	TRANSP	EXCLUDE LT	LT	TOTAL
Balance at 03/31/2016	8,449	254,492.75	15,905.64			
Less: Est'd Inventory Addition	0	0.00	0.00			
Purchases: Estimate	xxxxxxxxxx	xxxxxxxxxxx	xxxxxxxxxxxxxxxxxxx			
Actual	xxxxxxxxxx	XXXXXXXXXXXXXX	xxxxxxxxxxxxxxxxxx			
Transfers out: Estimate	xxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxx			
Actual	xxxxxxxxxx	XXXXXXXXXXXXXX	xxxxxxxxxxxxxxxxxx			
Transfers in: Estimate	(2)	0.00	(2.39)			
Actual	11	0.00	0.00			
Consumed: Estimate	3	90.38	5.65			
Actual	(2)	(59.74)	(3.78)			
Balance Per G/L 03/31/2016	8,459	254,523.39	15,905.12	-		
Purchases	xxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxxxxxxx			
Transfer out	xxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxxxxxxx			
Transfer in	2,588	77,389	3,094.58			
Consumed	(2,373)	(69,846.17)	(4,467.17)	29.4337	1.8825	31.3162
Balance @ 04/30/2016	8,674	262,066.21	14,532.52			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	8,674	262,066.21	14,532.52		1.6754	
Reverse Fuel Balance	xxxxxxxxxxx	(262.066.21)	xxxxxxxxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxx		xxxxxxxxxxxxxxxxxxx			
Total @ 05/01/2016 Avg Price	8,674	254,716.95	14,532.52	-		
Weighted Avg Cost/BBL by Location		30.2128	1.6754			
Weighted Avg Cost/BBL @ Avg Cost		29.3656	1.6754			

Estimated Weighted Average April 2016

KEAHOLE CT

T									
			COST	LAND	COST PER	BARREL			
HS Diesel	BBL	GALLONS	EXCLUDE LT	TRANSP	EXCLUD LT	LT	TOTAL		
Balance at 03/31/2016	40,006.8	1,680,287.0	2,207,653.8	107,116.2					
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		xxxxxxxxxxxx	xxxxxxxxxxxxx	xxxxxxxxxxxxxx					
Actual		xxxxxxxxxxxx	xxxxxxxxxxxxx	xxxxxxxxxxxxxx					
Transfers in: Estimate	(43,257.2)	(1,816,802.0)	(2,407,950.5)	(115,617.8)					
Actual	44,198.9	1,856,353.0	2,426,185.6	115,793.40					
Consumed: Estimate	48,414.8	2,033,421.0	2,983,602.7	126,632.52					
Actual	(48,320.4)	(2,029,457.0)	(2,950,241.0)	(126,505.1)	61.0558				
Balance Per G/L 03/31/2016	41,042.9	1,723,802	2,259,250.66	107,419.19	55.0461				
Purchases	xxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxxx					
Transfer out	xxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxxx					
Transfer in	46,870.6	1,968,566.0	2,553,030.9	125,275.8	54.4697				
Consumed	(46,551.7)	(1,955,173.0)	(2,577,541.8)	(124,637.62)	55.3694	2.6774	58.0468		
Balance @ 04/30/2016	41,361.8	1,737,195	2,234,739.73	108,057.36	54.0291				
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	41,361.8	1,737,195	2,234,739.73	108,057.36	54.0291				
Reverse Fuel Balance	**********	xxxxxxxxxxxx	(2 234 730 7)	xxxxxxxxxxxxxx					
Fuel Balance @ Avg Price		XXXXXXXXXXXXXXX		xxxxxxxxxxxxxx					
Total @ 05/01/2016 Avg Price	41,361.8	1,737,195	2,312,283.95	108,057.36	55.9039				
Weighted Avg Cost/BBL by Location			54.0291	2.6125					
Weighted Avg Cost/BBL @ Avg Cost			55.9039	2.6125					

Estimated Weighted Average April 2016

PUNA CT-3

			COST	LAND	COST PER	BARREL	
HS Diesel	BBL	GALLONS	EXCLUD LT	TRANSP	EXCL LT	LT	TOTAL
Balance at 03/31/2016	3,598.6	151,140.0	221,845.1	4,135.4			
Less: Est'd Inven Addition	0.0	0.0	0.0	0.0			
Purchases: Estimate		xxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxx			
Actual		xxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxx			
Transfers out: Estimate		xxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxx			
Actual		xxxxxxxxxxxxxx	xxxxxxxxxx	XXXXXXXXXXX			
Transfers in: Estimate	56.3	2,366.0	3,392.4	67.4			
Actual	(55.4)	(2,325.0)	0.0	0.0			
Consumed: Estimate	197.0	8,273.0	12,138.8	226.5			
Actual	(218.9)	(9,192.0)	(13,362.5)	(207.9)			
Balance Per G/L 03/31/2016	3,577.7	150,262	224,013.76	4,221.37			
Purchases	xxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxx			
Transfer out	xxxxxxxxxx	xxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxx			
Transfer in	1,785.4	74,986.0	100,681.5	2,134.9	56.3922		
Consumed	(2,014.0)	(84,589)	(111,515.29)	(2,314.52)	55.3694	1.1492	56.5186
Balance @ 04/30/2016	3,349.0	140,659	213,180.00	4,041.71	63.6544		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 04/30/2016	3,349.0	140,659	213,180.00	4,041.71	63.6544		
Reverse Fuel Balance	xxxxxxxxxxx	xxxxxxxxxxxxxx	(213.180.00)	xxxxxxxxxxx			
Fuel Balance @ Avg Price		XXXXXXXXXXXXXXXXX					
Total @ 05/01/2016 Avg Price	3,349.0	140,659	187,223.40	4,041.71	55.9039		
Weighted Avg Cost/BBL by Location			63.6544	1.2068			
Weighted Avg Cost/BBL @ Avg Cost			55.9039	1.2068			

Estimated Weighted Average April 2016

TOTAL HILO HS-DIESEL

			COST	LAND	COST PER		
HS Diesel	BBL	GALLONS	EXCLUDE LT	TRANSP	EXCL LT	LT	TOTAL
Dalamas at 02/21/2016	1102.6	46 244	CC C72	0.42			
Balance at 03/31/2016	1102.6	46,311	66,673	943			
Less: Est'd Inven Addition	0.0	0	0	0			
Purchases: Estimate	:	xxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxx			
Actual	:	xxxxxxxxxx	xxxxxxxxxx	XXXXXXXXXX			
Transfers out: Estimate	,	·····	xxxxxxxxxx	vvvvvvvvvvv			
Actual							
Actual	XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX						
Transfers in: Estimate	-187.2	-7862.0	-10256.7	-172.2			
Actual	186.8	7847.0	10147.1	173.6			
Consumed: Estimate	520.1	21846.0	32054.3	438.2			
Actual	-418.9	-17595.0	-25578.0	-440.3			
Balance Per G/L 03/31/2016	1203.5	50,547	73,039.15	942.71	60.6889		
Durchasas	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Purchases	XXXXXXXXXXX	xxxxxxxxxx	XXXXXXXXXXX	XXXXXXXXXXX			
Transfer out	XXXXXXXXXXX	xxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxx			
Transfer in	1509.2	63385.0	87125.8	1214.9	0.0000		
Consumed	-1766.9	-74210.0	-97832.5	-1511.8	55.3694	0.8556	56.2250
Dalar as @ 04/20/2016	045.0	20.722	C2 222 F4	C4E 02	CE 0072		
Balance @ 04/30/2016	945.8	39,722	62,332.54	645.83	65.9072		
Inven From Offsite/Transfers	0.0	0.0		0.0			
Est'd Inventory Addition	0.0	0.0	0.0	0.0			
Fuel Balance @ Avg Price	945.8	39,722	62,332.54	645.83	65.9072		
. ac. salarise & right fice	343.0	33,722	02,002.04	0 75.05	03.3072		
Reverse Fuel Balance	xxxxxxxxxxx	xxxxxxxxxx	-62,332.54	xxxxxxxxxx			
Fuel Balance @ Avg Price	XXXXXXXXXXX	xxxxxxxxxx		xxxxxxxxxx			
-							
Total @ 05/01/2016 Avg Price	945.8	39,722	52,871.75	645.83	55.9039		
Weighted Avg Cost/BBL by Location			65.9072	0.6829			
			FF 0005	0.5000			
Weighted Avg Cost/BBL @ Avg Cost			55.9039	0.6829			

Estimated Weighted Average April 2016

KEAHOLE DIESEL

			COST	LAND	COST PER BARREL		
ULSD	BBL	GALLONS	EXCLUDE LT	TRANSP	EXCLUD LT	LT	TOTAL
D. I	4 0 4 4 0	04 550	427 207 26	F 000 04			
Balance at 03/31/2016	1,941.9	81,559	137,297.36	5,090.01			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(190.0)	(7,980)	(9,850.52)	(507.83)			
Actual	188.8	7,928	9,788.79	0.00			
Transfers out: Estimate	;	xxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxx			
Actual	:	xxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxx			
Transfers in: Estimate		(8)	0.00	(0.51)			
Actual		77	0.00	504.52			
Consumed: Estimate	318.9	13,395	23,202.82	834.19			
Actual	(270.9)	(11,377)	(20,114.10)	(342.61)	74.2544		
Balance Per G/L 03/31/2016	1,990.3	83,594	140,324.35	5,577.77	70.5029		
Purchases	190.1	7,985	10,742.23	508.15	0.0000		
Estimated Purchases	190.0	7,980	10,735.50	507.83			
Transfer in	(1.0)	(41)	0.00	(2.61)	0.00		
Consumed	(356.8)	(14,987)	(25,398.01)	(935.33)	71.1761	2.6212	73.7973
Balance @ 04/30/2016	2,012.6	84,531	136,404.08	5,655.81	67.7736		
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	2,012.6	84,531	136,404.08	5,655.81	67.7736		
Reverse Fuel Balance	xxxxxxxxxxx	*******	(136,404.08)	**********			
Fuel Balance @ Avg Price	XXXXXXXXXXX			xxxxxxxxxx			
Total @ 05/01/2016 Avg Price	2,012.6	84,531	138,484.90	5,655.81	68.8075		
Weighted Avg Cost/BBL by Location			67.7736	2.8101			

Weighted Avg Cost/BBL by Location 67.7736 2.8101
Weighted Avg Cost/BBL @ Avg Cost 68.8075 2.8101

Estimated Weighted Average April 2016

WAIMEA DIESEL

			COST	LAND	COST PER BARRE	L	
ULSD	BBL	GALLONS	EXCLUDE LT	TRANSP		LT	TOTAL
Balance at 03/31/2016	1,457.0	61,192.0	102,077.9	3,273.52			
Januarios at 35, 52, 2525	2, .57.10	01,151.0	102,077.5	3,273.32			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Less. Est a liveli Addition	0.0	0.0	0.00	0.00			
		()	(40.64=.06)	(0.10.05)			
Purchases: Estimate		(15,917)					
Actual		15,867.0	19,583.8	0.00			
Transfers out: Estimate		xxxxxxxxxxx	xxxxxxxxxxxxx	xxxxxxxxxx			
Actual		xxxxxxxxxxx	xxxxxxxxxxxxx	xxxxxxxxxx			
Transfers in: Estimate	55.0	2,309	0.00	0.00			
Actual	(54.7)	(2,297)		841.22			
Actual	(34.7)	(2,297)	0.00	041.22			
Consumed Estimat	200.0	42.455	24 524 55	62466			
Consumed: Estimate	296.0	12,430	21,531.25	634.68			
Actual	(302.1)	(12,690)	(22,435.44)	(602.75)			
Balance Per G/L 03/31/2016	1,449.9	60,894	101,109.50	3,302.81	69.7376		
ULSD Purchases	188.9	7,935	10,674.97	420.69	56.5027		
		,	-,-				
Estimated Purchases	190.0	7,980	10,735.51	423.07			
Estimated Fulcilases	150.0	7,500	10,755.51	423.07			
Turnefon in		(720)	0.00	0.00	#DIV/01		
Transfer in	xxxxxxxxxx	(738)	0.00	0.00	#DIV/0!		
Consumed	(417.5)	(17,533)	(29,712.63)	(937.93)	71.1761	2.2468	73.4229
Balance @ 04/30/2016	1,393.8	58,538	92,807.35	3,208.64	66.5877		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
and a mineman, made and			0.00	0.00			
Fuel Balance @ Avg Price	1,393.8	58,538	92,807.35	3,208.64	66.5877		
ruel Balance @ Avg Frice	1,333.6	36,336	32,607.33	3,206.04	00.3677		
			/o				
Reverse Fuel Balance	xxxxxxxxxx	xxxxxxxxxx		xxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxx	xxxxxxxxxxx	95,901.26	XXXXXXXXXXX			
Total @ 05/01/2016 Avg Price	1,393.8	58,538	95,901.26	3,208.64	68.8075		
Weighted Avg Cost/BBL by Location			66.5877	2.3021			
11 0.0.1004 / 116 0004 000 01			00.5577	2.5021			
Weighted Avg Cost/DDL @ Avg Cost			60 0075	2 2021			
Weighted Avg Cost/BBL @ Avg Cost			68.8075	2.3021			

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

KANOELEHUA DIESEL

			COST	LAND		
ULSD	BBL	GALLONS	EXCLUDE LT	TRANSP		
Balance at 03/31/2016	1,357.0	56,996.0	98,996.7	 1,075.8 		
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		х	х	х		
Actual		х	X	х		
Transfers in: Estimate		152	0.00	3.33		
Actual		(152)	0.00	173.62		
Consumed: Estimate	76.3	3,203	5,548.24	131.33		
Actual	(63.5)	(2,665)	(4,711.62)	(59.09)		
Balance Per G/L 03/31/2016	1,369.9	57,534	99,833.35	1,325.01		
ULSD Purchases	189	7,934	10,673.60	173.77	56.502546	
Estimated Purchases	0	-	-	-		
Transfer in	(12)	(495)	0.00	(10.84)		
Consumed	(149.4)	(6,276)	(10,635.74)	(188.42)	71.1761	0.7928
Balance @ 04/30/2016	1,397.5	58,697	99,871.21	1,299.52		
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	1,397.5	58,697	99,871.21	1,299.52		
Reverse Fuel Balance	х	x	(99,871.21)	x		
Fuel Balance @ Avg Price	x	х	96,161.74	х		
Total @ 05/01/2016 Avg Price	1,397.5	58,697	96,161.74	1,299.52		
Weighted Avg Cost/BBL by Location			71.4618	0.9299		
Weighted Avg Cost/BBL @ Avg Cost			68.8075	0.9299		

Estimated Weighted Average April 2016

DISPERSED GENERATION

i r	IOI LINOLD O			
	BBL	GALLONS	COST	COST/BBL
Balance at 03/31/2016	84.3	3,541	6,134.04	
Less: Est'd Inven Addition	0.0	xxxxxxx	xxxxxxx	
Purchases: Estimate Actual	0.0 0.0	0	0.00 0.00	
Consumed: Estimate Actual	7.8 (7.2)	326 (302)		
	xxxxxxxxx	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	xxxxxxxxx	
	xxxxxxxxx	XXXXXXXXXXX	xxxxxxxxx	
Balance Per G/L 03/31/2016	84.88	3,565	7,328.90	86.3433
Purchases	0.0	0	0.00	0.0000
Transfer out	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx	
Transfer in	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx	
Consumed	(9.8)	(411)	(696.51)	71.1761
Balance @ 04/30/2016	75.1	3,154	6,632.39	88.3197
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 04/30/2016	75.1	3,154	6,632.39	
Reverse Fuel Balance Fuel Balance @ Avg Price		xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	(6,632.39) xxx 5,167.11 xxx	
Total @ 05/01/2016 Avg Price	75.1	3,154	5,167.11	68.8075

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

TYPE OF OIL BURNED

Hill Industrial		Puna Ind	<u>ustrial</u>
¢/MBTU	<u>\$/BBL</u>	¢/MBTU	\$/BBL
32.81	2.0669	32.81	2.0669
51.74	3.2598	51.74	3.2598
17.03	1.0729	17.03	1.0729
3.81	0.2400	3.81	0.2400
Hilo Di	esel	Waimea I	Diesel
¢/MBTU	\$/BBL	¢/MBTU	\$/BBL
	3.7057		3.7057
			3.2598
			1.0729
4.10	0.2400	4.10	0.2400
Kona D	iesel	CT3 Di	esel
¢/MBTU	\$/BBL	¢/MBTU	\$/BBL
61.13	3.7057	61.13	3.7057
55.63	3.2598	55.63	3.2598
18.31	1.0729	18.31	1.0729
4.10	0.2400	4.10	0.2400
ULS	D		
¢/MBTU	\$/BBL		
	1.5120		
0.00	0.0000		
	### ### ##############################	### ### ##############################	¢/MBTU \$/BBL ¢/MBTU 32.81 2.0669 32.81 51.74 3.2598 51.74 17.03 1.0729 17.03 3.81 0.2400 3.81 Hilo Diesel Waimea I ¢/MBTU \$/BBL ¢/MBTU 61.13 3.7057 63.25 55.63 3.2598 55.63 18.31 1.0729 18.31 4.10 0.2400 4.10 Kona Diesel CT3 Die ¢/MBTU \$/BBL ¢/MBTU \$6.3 55.63 18.31 1.0729 18.31 4.10 0.2400 4.10 ULSD ¢/MBTU ¢/MBTU \$/BBL 26.38 1.5120 0.00 0.000 0.0000 0.0000 0.0000 0.0000 0.000

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

Note: Since the components above are not accounted for separately in inventory, contract prices for the current month are being provided. Contract prices are considered accurate pending actual delivery of fuel.

Reference: Decision and Order No. 16134, Docket No. 96-0040.

^{*} Land Transportation Costs are shown in Attachment 3, Sheet 1.

^{**} ULSD includes Waimea, Kanoelehua, and Keahole.

Hawaii Electric Light Company, Inc. PURCHASED POWER PRICES FOR May 1, 2016

		May 1, 2016 (¢/kWh)	Floor Rates (¢/kWh)
PGV (25 MW)	- on peak	8.524	6.560
PGV (22 MW)	- off peak	9.808	5.430
WAILUKU HYDRO	- on peak	8.524	7.240
		9.808	5.970
Other: (<100 KW)	Sch Q Rate	8.780	
		May 1, 2016 (¢/kWh)	Floor Rates (¢/kWh)
HEP		11.618	
PGV Addtl 5 MW	- on peak	12.4800	0.0000
	- off peak	12.4800	0.0000
PGV Addtl 8 MW	- on peak	9.5200	0.0000
	- off peak	6.3400	0.0000

Hawaii Electric Light Company, Inc. Energy Cost Reconciliation Adjustment

May 1, 2016

Line No.	<u>Description</u>	<u>Amount</u>
1	Amount to be returned or collected	(\$2,320,900)
2	Monthly Amount (¹ / ₃ x Line 1)	(\$773,633)
3	Revenue Tax Divisor	0.91115
4	Total (Line 2 / Line 3)	(\$849,074)
5	Estimated MWh Sales (May 1, 2016)	85,417 mwh
6	Adjustment (Line 4 / Line 5)	(0.994) ¢/kwh

HAWAII ELECTRIC LIGHT COMPANY, INC. 2015 FUEL OIL ADJUSTMENT RECONCILIATION SUMMARY (Thousand \$)

<u>LINE</u>	<u>DESCRIPTION</u>	Info Only March 2016 YTD Total <u>No Deadband</u>	collectn by company*	Basis for Recon March 2016 YTD Total <u>Deadband</u>	Collection or Refund by <u>Company</u>
	ACTUAL COSTS:				
1	Generation	\$14,370.6		\$14,370.6	
2	Distributed Generation	\$3.1		\$3.1	
3	Purch Power	\$12,851.3		\$12,851.3	
4	TOTAL	\$27,225.0		\$27,225.0	•
	FUEL FILING COST (1)				
5	Generation	\$14,553.9		\$14,610.4	
6	Distributed Generation	\$3.1		\$3.1	
7	Purch Power	\$12,851.3		\$12,851.3	
8	TOTAL	\$27,408.4		\$27,464.9	•
	BASE FUEL COST				
9	Generation	\$20,396.2		\$20,396.2	
10	Distributed Generation	\$2.3		\$2.3	
11	Purch Power	\$17,634.0		\$17,634.0	
12	TOTAL	\$38,032.5		\$38,032.5	
13	FUEL-BASE COST (Line 8-12)	-\$10,624.1		-\$10,567.6	
14	ACTUAL FOA LESS TAX	-\$8,322.0		-\$8,322.0	
15	Less: FOA reconciliation adj for prior year	-\$75.3		-\$75.3	
16	ADJUSTED FOA LESS TAX	-\$8,246.7		-\$8,246.7	•
17	FOA-(FUEL-BASE) (Line 16-13)	\$2,377.4	over	\$2,320.9	over
	ADJUSTMENTS:				
18	Current year FOA accrual reversal	\$0.0		\$0.0	
19	Other prior year FOA	\$0.0		\$0.0	
20	Other	\$0.0	<u>-</u>	\$0.0	
21	QUARTERLY FOA RECONCILIATION (Line 17+18+19+20)	\$2,377.4	over	\$2,320.9	over

^{*} Over means an over-collection by the Company. Under means an under-collection by the Company.

Hawai`i Electric Light Company DEADBAND CALCULATION 2016

	Notes	Jan 1 - Mar 2016 YTD
<u>Industrial</u>		_
Industrial Efficiency Factor (per D&O), BTU/kWh* Industrial Deadband Definition, +/- BTU/kWh	f d	15,148 100
Industrial Portion of Recorded Sales, kWh	а	62,038,451
Industrial Consumption (Recorded), MMBTU Industrial Efficiency Factor (Recorded), BTU/kWh	b c=(b/a) x 1000	885,743 14,277
Lower limit of Industrial Deadband, BTU/kWh Higher limit of Industrial Deadband, BTU/kWh	e= f-d g=f+d	15,048 15,248
Industrial Efficiency Factor for cost-recovery, BTU/kWh	h=c, e, or g	15,048
<u>Diesel</u>		
Diesel Efficiency Factor (per D&O), BTU/kWh* Diesel Deadband Definition, +/- BTU/kWh	f d	10,424 100
Diesel Portion of Recorded Sales, MWh	а	74,969,578
Diesel Consumption (Recorded), MMBTU	b	789,207
Diesel Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	10,527
Lower limit of Diesel Deadband, BTU/kWh Higher limit of Diesel Deadband, BTU/kWh	e= f-d g=f+d	10,324 10,524
Diesel Efficiency Factor for cost-recovery, BTU/kWh	h=c, e, or g	10,524
Biodiesel		
Biodiesel Efficiency Factor (per D&O), BTU/kWh* Biodiesel Deadband Definition, +/- BTU/kWh	f d	0 100
Biodiesel Portion of Recorded Sales, MWh	а	0
Biodiesel Consumption (Recorded), MMBTU Biodiesel Efficiency Factor (Recorded), BTU/kWh	b c=(b/a) x 1000	0
Lower limit of Biodiesel Deadband, BTU/kWh Higher limit of Biodiesel Deadband, BTU/kWh	e= f-d g=f+d	-100 100
•		0
Biodiesel Efficiency Factor for cost-recovery, BTU/kWh	h=c, e, or g	0
<u>Hydro</u>		
Hydro Efficiency Factor (per D&O), BTU/kWh* Hydro Deadband Definition, +/- BTU/kWh	f d	12,621 100
Hydro Portion of Recorded Sales, MWh	а	1,373,275
Hydro Consumption (Recorded), MMBTU Hydro Efficiency Factor (Recorded), BTU/kWh	b c=(b/a) x 1000	17,223 12,541
Lower limit of Hydro Deadband, BTU/kWh Higher limit of Hydro Deadband, BTU/kWh	e= f-d g=f+d	12,521 12,721
Hydro Efficiency Factor for cost-recovery, BTU/kWh	h=c, e, or g	12,541

 $^{^{\}star}$ 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 2016

		With Deadband
	Without Deadband	As Filed
	Jan 1 - Mar 31	Jan 1 - Mar 31
INDUSTRIAL FUEL FILING COST		
Industrial Portion of Recorded Sales , kWh	62,038,451	62,038,451
Industrial Efficiency Factor (mmbtu/kwh)	0.015148	0.015048
Mmbtu adjusted for Sales Efficiency Factor	939,758	933,555
\$/mmbtu	\$5.4599	\$5.4599
TOTAL INDUSTRIAL \$000s TO BE RECOVERED	\$5,130.998	\$5,097.126
DIESEL FUEL FILING COST		
Diesel Portion of Recorded Sales, kWh	74,969,578	74,969,578
Diesel Efficiency Factor (mmbtu/kwh)	0.010424	0.010524
Mmbtu adjusted for Sales Efficiency Factor	781,483	788,980
\$/mmbtu	<u>\$12.0578</u>	<u>\$12.0578</u>
TOTAL DIESEL \$000s TO BE RECOVERED	\$9,422.926	\$9,513.322
HYDRO FUEL FILING COST		
Hydro Portion of Recorded Sales , kWh	1,373,275	1,373,275
Hydro Efficiency Factor (mmbtu/kwh)	0.012621	0.012541
Mmbtu adjusted for Sales Efficiency Factor	17,332	17,222
\$/mmbtu	\$0.0000	<u>\$0.0000</u>
TOTAL HYDRO \$000s TO BE RECOVERED	\$0.000	\$0.000
TOTAL GENERATION FUEL FILING COST, \$000s	\$14,553.9	\$14,610.4
CALCULATION OF GENERATION BASE FUEL COST TOTAL GENERATION BASE FUEL COST, \$000s	\$20,396.2	\$20,396.2
TOTAL GENERATION FUEL FILING COST, \$000s YTE TOTAL GENERATION BASE FUEL COST YTD	\$14,553.9 \$20,396.2	

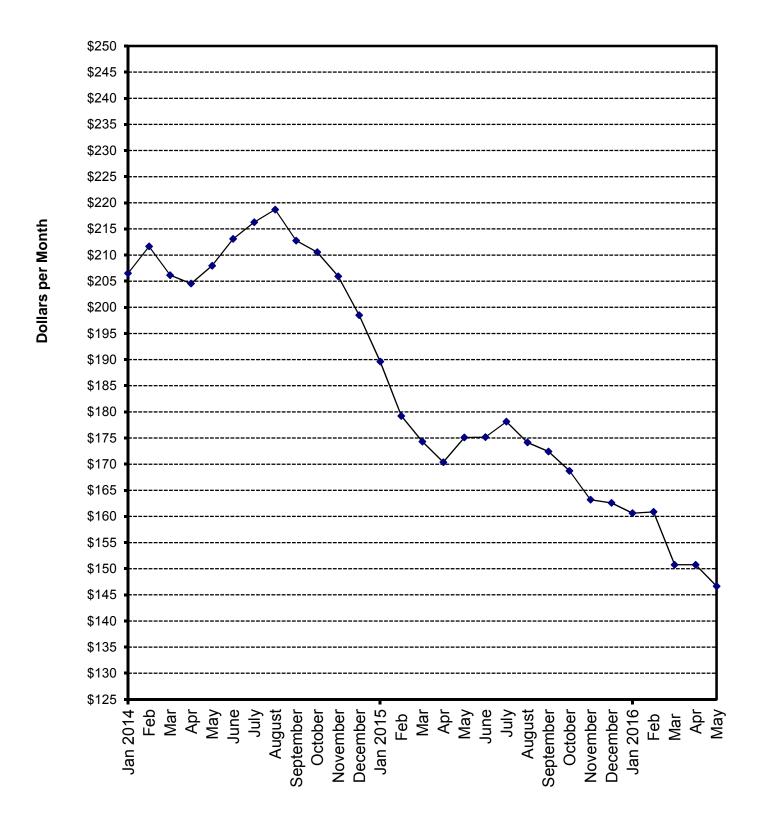
2016 Cumulative Reconciliation Balance

	(1)		(2)	(3)	(4)	(5)	(6)
			FOA Rec	FOA Rec			Month-end
	YTD FOA		Adjust	Less	Try to	Actual	Cumulative
<u>Month</u>	Reconciliation	<u>Qtr</u>	<u>Variance</u>	<u>Variance</u>	<u>Collect</u>	<u>Collect</u>	<u>Balance</u>
November	791,200	[3]	44,375	746,825	(263,733)	(262,906)	565,708
December 1	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		
May	2,320,900	[1]	2,178	2,318,722	(773,633)		

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

FUEL FACTOR CENTS / KWH

EFFECTIVE DATE	RESIDENTIAL & COMMERCIAL		TAL BILL (\$) @ 600 KWH
January 1, 2012	9.690	214.24	256.34
January 3, 2012	10.759	219.59	262.75
February 1, 2012	9.220	211.89	253.52
March 1, 2012	10.165	216.62	259.19
April 1, 2012	10.031	215.03	257.28
April 9, 2012	8.553	210.84	252.91
May 1, 2012	8.749	213.77	256.42
June 1, 2012	9.747	218.76	262.41
July 1, 2012	9.320	215.64	258.68
August 1, 2012	7.991	209.09	250.82
September 1, 2012	8.636	212.31	254.69
October 1, 2012	8.294	210.60	252.63
November 1, 2012	6.967	203.82	244.49
December 1, 2012	6.629	202.13	242.46
January 1, 2013	6.897	204.02	244.72
February 1, 2013	7.250	205.19	246.14
March 1, 2013	7.659 8.128	207.24 208.10	248.59 249.63
April 1, 2013 May 1, 2013	7.378	205.53	249.63 246.54
June 1, 2013	7.159	203.53	249.02
July 1, 2013	6.537	204.73	245.57
August 1, 2013	6.470	206.02	247.13
September 1, 2013	7.377	210.60	252.62
October 1, 2013	8.458	216.00	259.11
November 1, 2013	7.878	211.84	254.11
December 1, 2013	7.910	212.03	254.35
January 1, 2014	6.796	206.51	247.73
February 1, 2014	7.754	211.65	253.89
March 1, 2014	6.650	206.15	247.28
April 1, 2014	6.679	204.55	245.36
May 1, 2014	7.005	207.96	249.46
June 1, 2014	7.247	213.09	255.62
July 1, 2014	7.697 8.086	216.27 218.71	259.42 262.36
August 1, 2014 September 1, 2014	6.885	210.71	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 December 1, 2015	-2.727 -2.859	163.20 162.59	195.47 194.74
January 1, 2016	-3.223	160.63	192.41
January 1, 2016 February 1, 2016	-3.223 -2.962	160.87	192.41
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
-			

HAWAII ELECTRIC LIGHT COMPANY, INC. RESIDENTIAL SURCHARGE DATA

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
01/01/12 - 12/31/12	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.6766 CENTS/KWH
01/01/12 - 04/08/12	INTERIM RATE INCREASE 2010 TEST YEAR	1.74 PERCENT ON BASE
04/01/12 - 04/08/12	FIRM CAPACITY SURCHARGE	0.6427 PERCENT ON BASE
04/01/12 - 04/30/12	SOLARSAVER ADJUSTMENT	-0.3899 CENTS/KWH
04/09/12	FINAL RATE INCREASE (1.28%), DOCKET NO. 2009-0164	(2010 TEST YEAR)
04/09/12 - 7/31/2012	PURCHASED POWER ADJUSTMENT CLAUSE	2.4355 CENTS/KWH
05/01/12	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/18/12 - 5/31/2013		-0.1952 CENTS/KWH
8/1/2012 - 10/31/2012	PURCHASED POWER ADJUSTMENT CLAUSE	2.4540 CENTS/KWH
11/1/2012	PURCHASED POWER ADJUSTMENT CLAUSE	2.4237 CENTS/KWH
01/01/13	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.7850 CENTS/KWH
02/01/13	PURCHASED POWER ADJUSTMENT CLAUSE	2.3063 CENTS/KWH
04/01/13 - 04/30/13		-0.2964 CENTS/KWH
05/01/13 - 03/31/14	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
05/01/13- 07/31/2013	PURCHASED POWER ADJUSTMENT CLAUSE	2.2452 CENTS/KWH
6/1/2013	RBA RATE ADJUSTMENT	0.4383 CENTS/KWH
7/1/2013	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.8312 CENTS/KWH 2.5712 CENTS/KWH
8/1/2013-8/31/2013 9/1/2013-9/30/2013	PURCHASED POWER ADJUSTMENT CLAUSE PURCHASED POWER ADJUSTMENT CLAUSE	2.5832 CENTS/KWH
10/1/2013-9/30/2013	PURCHASED POWER ADJUSTMENT CLAUSE	2.5802 CENTS/KWH
11/1/2013-11/30/2013	PURCHASED POWER ADJUSTMENT CLAUSE	2.3272 CENTS/KWH
12/1/2013-12/31/2013	PURCHASED POWER ADJUSTMENT CLAUSE	2.3347 CENTS/KWH
1/1/2014-1/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.3444 CENTS/KWH
2/1/2014-2/28/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4149 CENTS/KWH
3/1/2014-3/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4170 CENTS/KWH
4/1/2014-4/30/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4162 CENTS/KWH
4/1/2014-4/30/2014		-0.3486 CENTS/KWH
5/1/2014-5/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4248 CENTS/KWH
5/1/2014-5/31/2014	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
6/1/2014-6/30/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4244 CENTS/KWH
6/1/2014-5/31/15	RBA RATE ADJUSTMENT	1.2225 CENTS/KWH
7/1/2014-7/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4252 CENTS/KWH
7/1/2014	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	1.0157 CENTS/KWH
8/1/2014-8/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.5250 CENTS/KWH
9/1/2014-9/30/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.5341 CENTS/KWH
10/1/2014-10/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.5314 CENTS/KWH
11/1/2014-11/30/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4226 CENTS/KWH
12/1/2014-12/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4235 CENTS/KWH
12/1/2014	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.7583 CENTS/KWH
12/1/2014-6/30/15	GREEN INFRASTRUCTURE FEE	1.2900 DOLLARS/MONTH
1/1/2015-1/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.4245 CENTS/KWH
2/1/2015-2/28/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.2273 CENTS/KWH
3/1/2015-3/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.2539 CENTS/KWH
4/1/2015-4/30/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.2424 CENTS/KWH
4/1/2015-4/30/2015 5/1/2015-5/31/2015	SOLARSAVER ADJUSTMENT PURCHASED POWER ADJUSTMENT CLAUSE	-0.3084 CENTS/KWH 2.3109 CENTS/KWH
5/1/2015 5/1/2015	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
6/1/2015-6/30/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3064 CENTS/KWH
6/1/2015-6/7/2015	RBA RATE ADJUSTMENT	0.0000 CENTS/KWH
6/8/2015	RBA RATE ADJUSTMENT	1.3971 CENTS/KWH
7/1/2015-7/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3157 CENTS/KWH
7/1/2015	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.4749 CENTS/KWH
7/1/2015-12/31/2015	GREEN INFRASTRUCTURE FEE	1.4200 DOLLARS/MONTH
8/1/2015-8/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3703 CENTS/KWH
9/1/2015-9/30/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3651 CENTS/KWH
10/1/2015-10/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3699 CENTS/KWH
11/1/2015-11/30/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3204 CENTS/KWH
12/1/2015-12/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3299 CENTS/KWH
1/1/2016-1/31/2016	PURCHASED POWER ADJUSTMENT CLAUSE	2.3260 CENTS/KWH
1/1/2016	GREEN INFRASTRUCTURE FEE	1.3000 DOLLARS/MONTH
2/1/2016 - 2/29/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.1114 CENTS/KWH
3/1/2016 - 3/31/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.1401 CENTS/KWH
4/1/2016 - 4/30/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.1228 CENTS/KWH
4/1/2016 - 4/30/16		-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

^{**}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

Base Rates

Base Fuel Energy Charge Non-fuel Fuel Energy Charge First 300 kWh per month Next 700 kWh per month Customer Charge Total Base Charges

RBA Rate Adjustment
Purchased Power Adj. Clause
PBF Surcharge
DSM Adjustment
SolarSaver Adjustment
Energy Cost Adjustment
Green Infrastructure Fee

Avg Residential Bill at 500 kwh

Rate			
	4/01/16	5/01/16	
effective date:	4/9/2012	4/9/2012	
¢/kwh	16.2487	16.2487	
¢/kwh			
¢/kwh	11.2019	11.2019	
¢/kwh	14.5537	14.5537	
\$	10.50	10.50	
¢/kwh	1.3971	1.3971	
¢/kwh	2.1228	1.8623	
¢/kwh	0.4749	0.4749	
¢/kwh	0.0000	0.0000	
¢/kwh	(0.2779)		
¢/kwh	(4.7150)	(5.5540)	
\$	1.3000	1.3000	

Charg	Charge (\$) at 500 Kwh			
4/01/16	5/01/16	Difference		
\$81.24	\$81.24	\$0.00		
\$62.72	\$62.72	\$0.00		
\$33.61	\$33.61	\$0.00		
\$29.11	\$29.11	\$0.00		
\$10.50	\$10.50	\$0.00		
\$154.46	\$154.46	\$0.00		
\$6.99	\$6.99	\$0.00		
\$10.61	\$9.31	-\$1.30		
\$2.37	\$2.37	\$0.00		
\$0.00	\$0.00	\$0.00		
-\$1.39	\$0.00	\$1.39		
-\$23.58	-\$27.77	-\$4.19		
\$1.30	\$1.30	\$0.00		
\$150.76	\$146.66			

Increase (Decrease -) % Change

-\$4.10 -2.72%

Base Rates

Base Fuel/Energy Charge Non-fuel Fuel Energy Charge First 300 kWh per month Next 700 kWh per month Customer Charge Total Base Charges

RBA Rate Adjustment
Purchased Power Adj. Clause
PBF Surcharge
DSM Adjustment
SolarSaver Adjustment
Energy Cost Adjustment
Green Infrastructure Fee

Avg Residential Bill at 600 kwh

Rate		
	4/01/16	5/01/16
effective date:	4/9/2012	4/9/2012
¢/kwh	16.2487	16.2487
¢/kwh		
¢/kwh	11.2019	11.2019
¢/kwh	14.5537	14.5537
\$	10.50	10.50
¢/kwh	1.3971	1.3971
¢/kwh	2.1228	1.8623
¢/kwh	0.4749	0.4749
¢/kwh	0.0000	0.0000
¢/kwh	(0.2779)	
¢/kwh	(4.7150)	(5.5540)
\$	1.3000	1.3000

Charge (\$) at 600 Kwh			
4/01/16	5/01/16	Difference	
\$97.49	\$97.49	\$0.00	
\$77.27	\$77.27	\$0.00	
\$33.61	\$33.61	\$0.00	
\$43.66	\$43.66	\$0.00	
\$10.50	\$10.50	\$0.00	
\$185.26	\$185.26	\$0.00	
\$8.38	\$8.38	\$0.00	
\$12.74	\$11.17	-\$1.57	
\$2.85	\$2.85	\$0.00	
\$0.00	\$0.00	\$0.00	
-\$1.67	\$0.00	\$1.67	
-\$28.29	-\$33.32	-\$5.03	
\$1.30	\$1.30	\$0.00	
\$180.57	\$175.64		

Increase (Decrease -) % Change

-\$4.93 -2.73%