



JAY IGNACIO, P. E.  
President

FILED

May 26, 2016

2016 MAY 26 P 3 47

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 June 2016

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") energy cost adjustment factor for June 2016 is -5.546 cents per kilowatt-hour ("kWh"), an increase of 0.008 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$146.74, an increase of \$0.08 compared to the rates effective May 1, 2016. The increase in the typical residential bill is due to the increase in the energy cost adjustment factor (+\$0.04), the decrease in the Purchased Power Adjustment Clause rate (-\$0.09), and the increase in the Revenue Balancing Account rate adjustment (+\$0.13).

Hawai'i Electric Light's fuel composite cost of generation increased 3.56 cents per million BTU to 730.89 cents per million BTU. The composite cost of distributed generation increased 0.097 cents per kWh to 12.048 cents per kWh. The composite cost of purchased energy decreased 0.404 cents per kWh to 10.768 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 June 1, 2016.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

## HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST ADJUSTMENT FACTOR

	<u>EFFECTIVE DATES</u>		
	<u>5/01/16</u>	<u>6/01/16</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	727.33	730.89	3.56
Dispersed Generation Energy, ¢/kWh	11.951	12.048	0.097
Purchased Energy, ¢/kWh	11.172	10.768	(0.404)
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment - ¢/kWh	(5.554)	(5.546)	0.008
<u>Others - "G,J,P,F"</u>			
Energy Cost Adjustment - ¢/kWh	(5.554)	(5.546)	0.008
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$146.66	\$146.74	\$0.08
600 KWH Consumption - \$/Bill	\$175.64	\$175.74	\$0.10



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

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

Line	<b>PURCHASED ENERGY COMPONENT</b>		
	PURCHASED ENERGY PRICE, ¢/kWh		
48	HEP		10.895
49	PGV	On Peak	8.250
50	PGV	Off Peak	9.455
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
55	Waikuku Hydro	On Peak	8.250
56	Waikuku Hydro	Off Peak	9.455
57	Hawi Renewable Dev.	On Peak	8.250
58	Hawi Renewable Dev.	Off Peak	9.455
59	Tawhiri (Pakini Nui)	On Peak	16.150
60	Tawhiri (Pakini Nui)	Off Peak	13.490
61			
62	Small Hydro (>100 KW)	On Peak	8.250
63	Small Hydro (>100 KW)	Off Peak	9.455
64	Sch Q Hydro (<100 KW)		8.470
65	FIT		23.800
	PURCHASED ENERGY KWH MIX, %		
66	HEP		32.101
67	PGV	On Peak	18.357
68	PGV	Off Peak	11.459
69	PGV - Add'l	On Peak	3.134
70	PGV - Add'l	Off Peak	2.651
71	PGV - Add'l 5 MW	On Peak	1.374
72	PGV - Add'l 8 MW	Off Peak	3.054
73	Waikuku Hydro	On Peak	1.755
74	Waikuku Hydro	Off Peak	1.039
75	Hawi Renewable Dev.	On Peak	5.219
76	Hawi Renewable Dev.	Off Peak	1.924
77	Tawhiri (Pakini Nui)	On Peak	11.852
78	Tawhiri (Pakini Nui)	Off Peak	5.430
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)		0.200
83	FIT		0.451
			100.000
84	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh		10.768
85	% Input to System kWh Mix		64.210
86	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (Lines (84 x 85))		6.91413
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))		(0.28101)
91	Loss Factor		1.067
92	Revenue Tax Req Multiplier		1.0975
93	PURCHASED ENERGY FACTOR, ¢/kWh (Lines (90 x 91 x 92))		(0.32907)

Line	<b>SYSTEM COMPOSITE</b>		
94	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (Lines (47 + 93))		(4.50884)
95	Not Used		0.000
96	Not Used		0.000
97	ECA Reconciliation Adjustment		(1.037)
98	ECA FACTOR, ¢/kWh (Lines (94 + 95+ 96 + 97))		(5.546)

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

**INDUSTRIAL FUEL COSTS:**

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	33.2336	33.2336
Land Transportation Cost - \$/BBL	--	1.5714
Industrial Costs For Filing - \$/BBL	33.2336	34.8050
Conversion Factors - mmbtu/BBL	6.30	6.30
Industrial Costs For Filing - ¢/mmbtu	527.52	552.46

**DIESEL FUEL COSTS:**

	<u>KEAHOLE</u>	<u>PUNA CT-3</u>	<u>HILO</u>
Average Diesel Fuel Cost - \$/BBL	58.3383	58.3383	58.3383
Land Transportation Cost - \$/BBL	2.7911	1.1825	0.6181
Diesel Costs For Filing - \$/BBL	61.1294	59.5208	58.9564
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
Diesel Costs For Filing - ¢/mmbtu	1,043.16	1,015.71	1,006.08

**ULSD FUEL COSTS:**

	<u>KEAHOLE</u>	<u>WAIMEA</u>	<u>HILO</u>	<u>DISPERSED GENERATION</u>
Average ULSD Fuel Cost - \$/BBL	67.6542	67.6542	67.6542	67.6542
Land Transportation Cost - \$/BBL	2.7934	2.2757	1.5841	-
ULSD Costs For Filing - \$/BBL	70.4476	69.9299	69.2383	67.6542
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
ULSD Costs For Filing - ¢/mmbtu	1,229.45	1,220.42	1,208.35	1,180.70

**Dispersed Generation, cents per kWh**

	<u>COMPOSITE COST OF DISP. GEN.</u>
BBIs Fuel:	126.4398
\$/BBL Inv Cost:	67.6542
Fuel \$ (Prod Sim Consumption x Unit Cost)	8,554.18
Net kWh (from Prod Sim)	71,000
cents/kWh:	12.048

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

	SHIPMAN INDUSTRIAL		HILL INDUSTRIAL		COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 04/30/2016	0	0.00	33,811	980,761.88			
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	(30,359)	(860,085.88)			
Actual	0	0.00	33,715	984,844.33			
Consumed: Estimate	0	0.00	36,537	1,075,419.10			
Actual	0	0.00	(38,395)	(1,130,107.11)			
Balance Per G/L 04/30/2016	0	0.00	35,309	1,050,832.32			
Purchases	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0.00	50,248	1,616,627.74			
Consumed	0	0.00	(48,198)	(1,415,363.19)	106.5901	0.0000	106.5901
Balance @ 05/31/2016	0	0.00	37,359	1,252,096.87			
Inv From Offsite/Transfers	0	0.00	0	0.00			
Est'd Inventory Addition	0	0.00	0	0.00			
Fuel Balance @ 05/31/2016	0	0.00	37,359	1,252,096.87			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxx	(1,252,096.87)			
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxx	1,241,572.48			
Total @ 9/30/2013 Avg Price	0	0.00	37,359	1,241,572.48			

Weighted Avg Cost/BBL by Location #DIV/0! 33.5153

Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 33.2336

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
May 2016

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 04/30/2016	8,674	262,066.21	14,532.53			
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	(2,588)	(77,388.99)	(3,094.58)			
Actual	2,544	77,519.01	3,120.88			
Consumed: Estimate	2,373	69,846.17	4,467.17			
Actual	(2,702)	(79,529.87)	(5,086.64)			
Balance Per G/L 04/30/2016	<u>8,301</u>	<u>252,512.53</u>	<u>13,939.36</u>			
Purchases	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	2,063	71,449	2,466.81			
Consumed	(1,156)	(33,946.63)	(1,936.76)	29.3656	1.6754	31.0410
Balance @ 05/31/2016	<u>9,208</u>	<u>290,014.98</u>	<u>14,469.41</u>			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	<u>9,208</u>	<u>290,014.98</u>	<u>14,469.41</u>		<u>1.5714</u>	
Reverse Fuel Balance	XXXXXXXXXXXX	(290,014.98)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	306,014.60	XXXXXXXXXXXX			
Total @ 06/01/2016 Avg Price	<u>9,208</u>	<u>306,014.60</u>	<u>14,469.41</u>			

Weighted Avg Cost/BBL by Location

31.4960

1.5714

Weighted Avg Cost/BBL @ Avg Cost

33.2336

1.5714





**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
May 2016

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER BARREL EXCL LT	BARREL LT	TOTAL
Balance at 04/30/2016	3,349.0	140,659.0	213,180.0	4,041.7			
Less: Est'd Inven Addition	0.0	0.0	0.0	0.0			
Purchases: Estimate		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			
Actual		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			
Transfers out: Estimate		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			
Actual		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			
Transfers in: Estimate	(1,785.4)	(74,986.0)	(100,681.5)	(2,134.9)			
Actual	1,692.9	71,100.0	108,772.8	1,964.5			
Consumed: Estimate	2,014.0	84,589.0	111,515.3	2,314.5			
Actual	(1,436.6)	(60,338.0)	(79,544.8)	(1,651.0)			
Balance Per G/L 04/30/2016	3,833.9	161,024	253,241.72	4,534.88			
Purchases		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			
Transfer in	(101.0)	(4,241.0)	(6,669.8)	(120.7)	66.0532		
Consumed	0.0	0	0.00	0.00	55.9039	1.2068	57.1107
Balance @ 05/31/2016	3,732.9	156,783	246,571.92	4,414.14	66.0532		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 05/31/2016	3,732.9	156,783	246,571.92	4,414.14	66.0532		
Reverse Fuel Balance		XXXXXXXXXXXXXXXXXX	(246,571.92)	XXXXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXXXXXXXX	217,772.67	XXXXXXXXXXXXXX			
Total @ 06/01/2016 Avg Price	3,732.9	156,783	217,772.67	4,414.14	58.3383		

Weighted Avg Cost/BBL by Location

66.0532 1.1825

Weighted Avg Cost/BBL @ Avg Cost

58.3383 1.1825

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
May 2016

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCL LT	BARREL LT	TOTAL
Balance at 04/30/2016	945.8	39,722	62,333	646			
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	-1509.2	-63385.0	-87125.8	-1214.9			
Actual	1506.5	63271.0	87097.6	1214.9			
Consumed: Estimate	1766.9	74210.0	97832.5	1511.8			
Actual	-1285.3	-53982.0	-71165.6	-1273.3			
Balance Per G/L 04/30/2016	1424.7	59,836	88,971.21	884.33	62.4505		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	0.0	0.0	0.0	0.0	0.0000		
Consumed	-57.4	-2410.0	-3207.8	-39.2	55.9039	0.6829	56.5868
Balance @ 05/31/2016	1,367.3	57,426	85,763.39	845.14	62.7253		
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	1,367.3	57,426	85,763.39	845.14	62.7253		
Reverse Fuel Balance		XXXXXXXXXXXX	-85,763.39	XXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXX	79,765.11	XXXXXXXXXXXX			
Total @ 06/01/2016 Avg Price	1,367.3	57,426	79,765.11	845.14	58.3383		

Weighted Avg Cost/BBL by Location

62.7253 0.6181

Weighted Avg Cost/BBL @ Avg Cost

58.3383 0.6181

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
May 2016

KEAHOLE DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 04/30/2016	2,012.6	84,531	136,404.07	5,655.81			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(380.1)	(15,965)	(21,477.73)	(1,015.98)			
Actual	378.9	15,912	21,406.43	0.00			
Transfers out: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate		41	0.00	2.61			
Actual		20	0.00	1,012.61			
Consumed: Estimate	356.8	14,987	25,398.01	935.33			
Actual	(320.5)	(13,459)	(22,811.03)	(839.96)	71.1838		
Balance Per G/L 04/30/2016	2,049.2	86,067	138,919.75	5,750.42	67.7917		
Purchases	0.0	0	0.00	0.00	0.0000		
Estimated Purchases	190.0	7,980	11,527.12	507.83			
Transfer in	0.0	0	0.00	0.00	#DIV/0!		
Consumed	(194.8)	(8,180)	(13,401.08)	(547.30)	68.8075	2.8101	71.6176
Balance @ 05/31/2016	2,044.5	85,867	137,045.79	5,710.95	67.0330		
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	2,044.5	85,867	137,045.79	5,710.95	67.0330		
Reverse Fuel Balance	XXXXXXXXXXXX	XXXXXXXXXXXX	(137,045.79)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	XXXXXXXXXXXX	138,315.79	XXXXXXXXXXXX			
Total @ 06/01/2016 Avg Price	2,044.5	85,867	138,315.79	5,710.95	67.6542		

Weighted Avg Cost/BBL by Location

67.0330 2.7934

Weighted Avg Cost/BBL @ Avg Cost

67.6542 2.7934

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

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 04/30/2016	1,393.8	58,538.0	92,807.4	3,208.64			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Purchases: Estimate		(15,915)	(21,410.48)	(843.76)			
Actual		15,865.0	21,343.2	0.00			
Transfers out: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate	17.6	738	0.00	0.00			
Actual	(1.1)	(45)	0.00	841.11			
Consumed: Estimate	417.5	17,533	29,712.63	937.93			
Actual	(401.8)	(16,875)	(28,595.08)	(849.06)			
Balance Per G/L 04/30/2016	1,424.7	59,839	93,857.62	3,294.86	65.8771		
ULSD Purchases	377.1	15,837	22,876.56	839.62	60.6690		
Estimated Purchases	-	0	0.00	0.00			
Transfer in	XXXXXXXXXXXX	446	0.00	0.00	#DIV/0!		
Consumed	(374.9)	(15,744)	(25,792.98)	(862.96)	68.8075	2.3021	71.1096
Balance @ 05/31/2016	1,437.6	60,378	90,941.20	3,271.53	63.2603		
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	1,437.6	60,378	90,941.20	3,271.53	63.2603		
Reverse Fuel Balance	XXXXXXXXXXXX	XXXXXXXXXXXX	(90,941.20)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	XXXXXXXXXXXX	97,257.75	XXXXXXXXXXXX			
Total @ 06/01/2016 Avg Price	1,437.6	60,378	97,257.75	3,271.53	67.6542		

Weighted Avg Cost/BBL by Location

63.2603 2.2757

Weighted Avg Cost/BBL @ Avg Cost

67.6542 2.2757

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
May 2016

KANOELEHUA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP		
Balance at 04/30/2016	1,397.5	58,697.0	99,871.2	1,299.5		
Less: Est'd Inventory Addition	0.0	0	0.00	0.00		
Purchases: Estimate	(188.9)	(7,934)	(10,673.60)	(173.77)		
Actual	188.9	7,934	10,673.60	0.00		
Transfers out: Estimate			x	x	x	
Actual			x	x	x	
Transfers in: Estimate		495	0.00	10.84		
Actual		(647)	0.00	1,562.06		
Consumed: Estimate	149.4	6,276	10,635.74	188.42		
Actual	(109.1)	(4,584)	(7,768.37)	(623.38)		
Balance Per G/L 04/30/2016	1,434.2	60,237	102,738.58	2,263.69		
ULSD Purchases	0	0	0.00	0.00	#DIV/0!	
Estimated Purchases	0	-	-	-		
Transfer in	(7)	(304)	0.00	(6.66)		
Consumed	(66.0)	(2,771)	(4,539.66)	(101.09)	68.8075	0.9299
Balance @ 05/31/2016	1,361.0	57,162	98,198.92	2,155.94		
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	1,361.0	57,162	98,198.92	2,155.94		
Reverse Fuel Balance	x	x	(98,198.92)	x		
Fuel Balance @ Avg Price	x	x	92,077.37	x		
Total @ 06/01/2016 Avg Price	1,361.0	57,162	92,077.37	2,155.94		
Weighted Avg Cost/BBL by Location			72.1520	1.5841		
Weighted Avg Cost/BBL @ Avg Cost			67.6542	1.5841		

**HAWAII ELECTRIC LIGHT CO., INC.**

Estimated Weighted Average  
May 2016

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 04/30/2016	75.1	3,154	6,632.39	
Less: Est'd Inven Addition	0.0	XXXXXXXXX	XXXXXXXXXX	
Purchases: Estimate	0.0	0	0.00	
Actual	0.0	0	0.00	
Consumed: Estimate	9.8	411	696.51	
Actual	(8.8)	(370)	(627.03)	
	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
Balance Per G/L 04/30/2016	76.07	3,195	6,701.87	88.0997
Purchases	11.8	497	717.92	60.6693
Transfer out	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
Consumed	(6.6)	(279)	(457.08)	68.8075
Balance @ 05/31/2016	81.3	3,413	6,962.71	85.6824
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 05/31/2016	81.3	3,413	6,962.71	
Reverse Fuel Balance	XXXXXXXXXXXX	XXXXXXXXXXXX	(6,962.71)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXXXX	XXXXXXXXXXXX	5,497.71	xxxx
Total @ 06/01/2016 Avg Price	81.3	3,413	5,497.71	67.6542

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

**TYPE OF OIL BURNED**

	<u>Hilo Industrial</u>		<u>Puna Industrial</u>	
<b>INDUSTRIAL *</b>	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax <sup>1</sup>	36.00	2.2674	36.00	2.2674
Ocean Transportation	47.70	3.0053	47.70	3.0053
Storage	17.03	1.0729	17.03	1.0729
Wharfage	3.81	0.2400	3.81	0.2400
	<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>	66.39	3.8897	66.39	3.8897
Ocean Transportation	51.28	3.0053	51.28	3.0053
Storage	18.31	1.0729	18.31	1.0729
Wharfage	4.10	0.2400	4.10	0.2400
	<u>Kona Diesel</u>		<u>CT3 Diesel</u>	
	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax <sup>1</sup>	66.39	3.8897	66.39	3.8897
Ocean Transportation	51.28	3.0053	51.28	3.0053
Storage	18.31	1.0729	18.31	1.0729
Wharfage	4.10	0.2400	4.10	0.2400
	<u>ULSD</u>			
<b>ULSD **</b>	<u>¢/MBTU</u>	<u>\$/BBL</u>		
Tax <sup>1</sup>	20.65	1.6226		
Ocean Transportation	0.00	0.0000		
Storage	0.00	0.0000		
Wharfage	0.00	0.0000		

<sup>1</sup> 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.

\* Land Transportation Costs are shown in Attachment 3, Sheet 1.

\*\* ULSD includes Waimea, Kanoiehua, and Keahole.

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

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

		<u>June 1, 2016</u> <u>(¢/kWh)</u>	<u>Floor Rates</u> <u>(¢/kWh)</u>
PGV (25 MW)	- on peak	8.250	6.560
PGV (22 MW)	- off peak	9.455	5.430
WAILUKU HYDRO	- on peak	8.250	7.240
	.	9.455	5.970
Other: (<100 KW)	Sch Q Rate	8.470	
		<u>June 1, 2016</u> <u>(¢/kWh)</u>	<u>Floor Rates</u> <u>(¢/kWh)</u>
HEP		10.895	
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**  
June 1, 2016

<u>Line No.</u>	<u>Description</u>	<u>Amount</u>
1	Amount to be returned or collected	(\$2,320,900)
2	Monthly Amount ( $\frac{1}{3}$ x Line 1)	(\$773,633)
3	Revenue Tax Divisor	0.91115
4	Total (Line 2 / Line 3)	(\$849,074)
5	Estimated MWh Sales (June 1, 2016)	81,914 mwh
6	Adjustment (Line 4 / Line 5)	(1.037) ¢/kwh

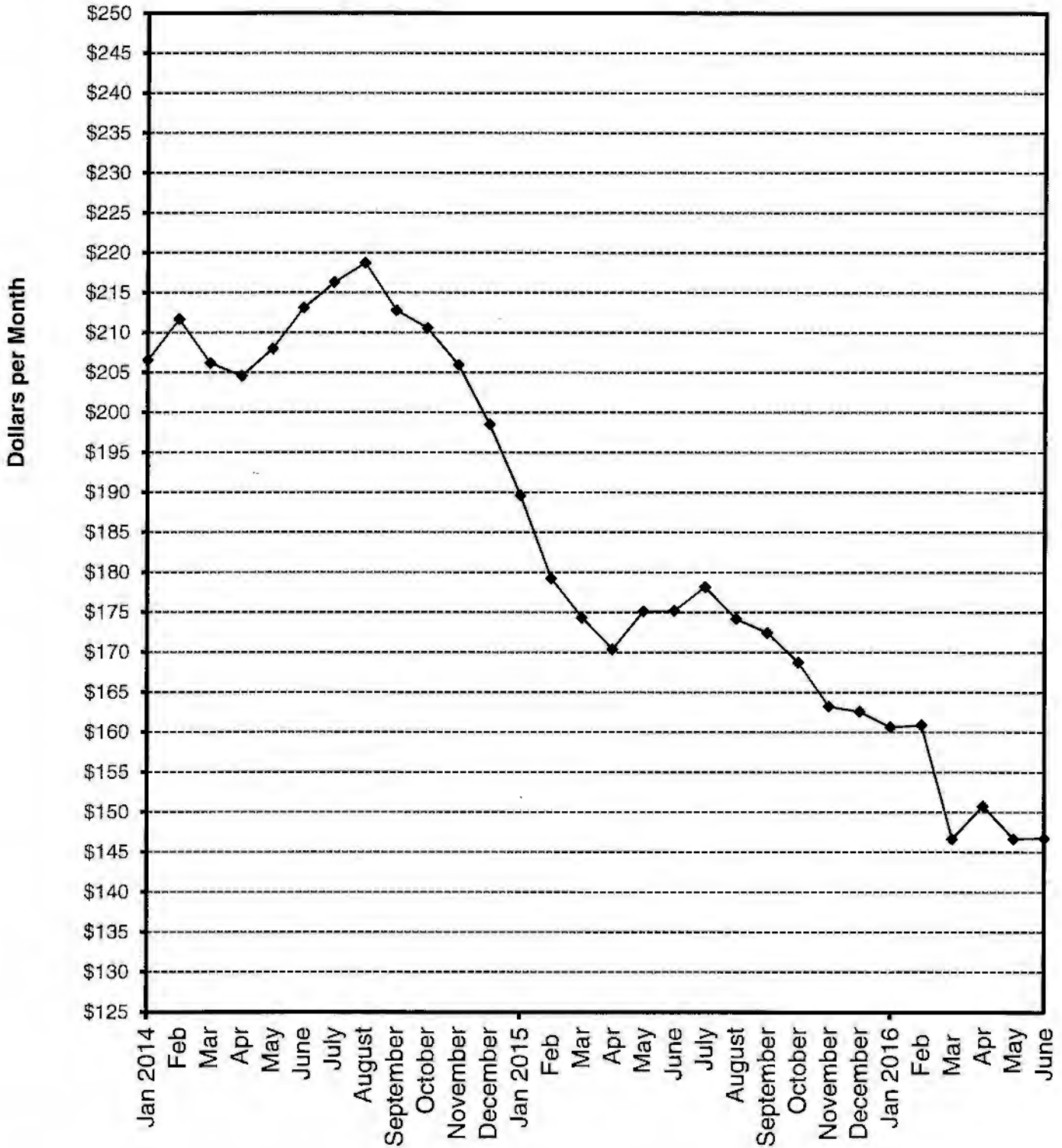
**HAWAII ELECTRIC LIGHT COMPANY, INC.**  
2016 Cumulative Reconciliation Balance

Month	(1) YTD FOA Reconciliation	Qtr	(2) FOA Rec Adjust Variance	(3) FOA Rec Less Variance	(4) Try to Collect	(5) Actual Collect	(6) Month-end Cumulative Balance
November	791,200	[3]	44,375	746,825	(263,733)	(262,906)	565,708
December 15					(263,733)	(256,311)	309,397
January 16					(263,733)	(264,541)	44,856
February	(282,600)	[4]	10,260	(292,860)	94,200	95,382	(152,622)
March					94,200	96,004	(56,618)
April					94,200	97,345	40,727
May	2,320,900	[1]	2,178	2,318,722	(773,633)		
June					(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**

<u>EFFECTIVE DATE</u>	<u>FUEL FACTOR</u> <u>CENTS / KWH</u>		<u>RESIDENTIAL BILL (\$)</u>
	<u>RESIDENTIAL &amp; COMMERCIAL</u>	<u>@ 500 KWH @ 600 KWH</u>	
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	207.24	248.59
April 1, 2013	8.128	208.10	249.63
May 1, 2013	7.378	205.53	246.54
June 1, 2013	7.159	207.61	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	6.736	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	8.679	204.55	245.36
May 1, 2014	7.005	207.96	249.46
June 1, 2014	7.247	213.09	255.62
July 1, 2014	7.697	216.27	259.42
August 1, 2014	8.086	218.71	262.36
September 1, 2014	6.885	212.75	255.20
October 1, 2014	6.447	210.55	252.56
November 1, 2014	5.634	205.93	247.03
December 1, 2014	4.143	198.49	237.84
January 1, 2015	2.369	189.62	227.20
February 1, 2015	0.485	179.22	214.71
March 1, 2015	-0.519	174.32	208.85
April 1, 2015	-0.990	170.37	204.10
May 1, 2015	-0.420	175.10	209.79
June 8, 2015	-0.579	175.16	209.85
July 1, 2015	0.264	178.14	213.38
August 1, 2015	-0.586	174.16	208.61
September 1, 2015	-0.927	172.43	206.54
October 1, 2015	-1.671	168.73	202.10
November 1, 2015	-2.727	163.20	195.47
December 1, 2015	-2.859	162.59	194.74
January 1, 2016	-3.223	160.63	192.41
February 1, 2016	-2.962	160.87	192.69
March 1, 2016	-4.311	154.26	184.76
April 1, 2016	-4.715	150.76	180.57
May 1, 2016	-5.554	146.66	175.64
June 1, 2016	-5.546	146.74	175.74

**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	<b>FINAL RATE INCREASE (1.28%), DOCKET NO. 2009-0164 (2010 TEST YEAR)</b>	
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	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	-0.1952 CENTS/KWH
6/1/2012 - 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	SOLARSAVER ADJUSTMENT	-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
8/1/2013-8/31/2013	PURCHASED POWER ADJUSTMENT CLAUSE	2.5712 CENTS/KWH
9/1/2013-9/30/2013	PURCHASED POWER ADJUSTMENT CLAUSE	2.5832 CENTS/KWH
10/1/2013-10/31/2013	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	SOLARSAVER ADJUSTMENT	-0.3486 CENTS/KWH
5/1/2014-5/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4248 CENTS/KWH
5/1/2014-5/31/2014	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
6/1/2014-6/30/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4244 CENTS/KWH
6/1/2014-5/31/15	RBA RATE ADJUSTMENT	1.2225 CENTS/KWH
7/1/2014-7/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4252 CENTS/KWH
7/1/2014	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	SOLARSAVER ADJUSTMENT	-0.3084 CENTS/KWH
5/1/2015-5/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3109 CENTS/KWH
5/1/2015	<b>SOLARSAVER ADJUSTMENT</b>	<b>0.0000 CENTS/KWH</b>
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	<b>RESIDENTIAL PBF SURCHARGE ADJUSTMENT</b>	<b>0.4749 CENTS/KWH</b>
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	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.3000 DOLLARS/MONTH</b>
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	<b>SOLARSAVER ADJUSTMENT</b>	<b>0.0000 CENTS/KWH</b>
6/1/2016 - 6/30/16	PURCHASED POWER ADJUSTMENT CLAUSE	1.8442 CENTS/KWH
6/1/2016	RBA RATE ADJUSTMENT	1.4241 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**

	Rate		Charge (\$) at 500 Kwh			
	5/01/16	6/01/16	5/01/16	6/01/16	Difference	
<b>Base Rates</b>	effective date:	4/9/2012	4/9/2012			
Base Fuel Energy Charge	¢/kwh	16.2487	16.2487	\$81.24	\$81.24	\$0.00
Non-fuel Fuel Energy Charge	¢/kwh			\$62.72	\$62.72	\$0.00
First 300 kWh per month	¢/kwh	11.2019	11.2019	\$33.61	\$33.61	\$0.00
Next 700 kWh per month	¢/kwh	14.5537	14.5537	\$29.11	\$29.11	\$0.00
Customer Charge	\$	10.50	10.50	\$10.50	\$10.50	\$0.00
<b>Total Base Charges</b>				\$154.46	\$154.46	\$0.00
<b>RBA Rate Adjustment</b>	¢/kwh	1.3971	1.4241	\$6.99	\$7.12	\$0.13
<b>Purchased Power Adj. Clause</b>	¢/kwh	1.8623	1.8442	\$9.31	\$9.22	-\$0.09
<b>PBF Surcharge</b>	¢/kwh	0.4749	0.4749	\$2.37	\$2.37	\$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	(5.5540)	(5.5460)	-\$27.77	-\$27.73	\$0.04
<b>Green Infrastructure Fee</b>	\$	1.3000	1.3000	\$1.30	\$1.30	\$0.00
<b>Avg Residential Bill at 500 kwh</b>				\$146.66	\$146.74	

Increase (Decrease -)	\$0.08
% Change	0.05%

	Rate		Charge (\$) at 600 Kwh			
	5/01/16	6/01/16	5/01/16	6/01/16	Difference	
<b>Base Rates</b>	effective date:	4/9/2012	4/9/2012			
Base Fuel/Energy Charge	¢/kwh	16.2487	16.2487	\$97.49	\$97.49	\$0.00
Non-fuel Fuel Energy Charge	¢/kwh			\$77.27	\$77.27	\$0.00
First 300 kWh per month	¢/kwh	11.2019	11.2019	\$33.61	\$33.61	\$0.00
Next 700 kWh per month	¢/kwh	14.5537	14.5537	\$43.66	\$43.66	\$0.00
Customer Charge	\$	10.50	10.50	\$10.50	\$10.50	\$0.00
<b>Total Base Charges</b>				\$185.26	\$185.26	\$0.00
<b>RBA Rate Adjustment</b>	¢/kwh	1.3971	1.4241	\$8.38	\$8.54	\$0.16
<b>Purchased Power Adj. Clause</b>	¢/kwh	1.8623	1.8442	\$11.17	\$11.07	-\$0.10
<b>PBF Surcharge</b>	¢/kwh	0.4749	0.4749	\$2.85	\$2.85	\$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	(5.5540)	(5.5460)	-\$33.32	-\$33.28	\$0.04
<b>Green Infrastructure Fee</b>	\$	1.3000	1.3000	\$1.30	\$1.30	\$0.00
<b>Avg Residential Bill at 600 kwh</b>				\$175.64	\$175.74	

Increase (Decrease -)	\$0.10
% Change	0.06%