



March 29, 2016

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

2016 MAR 29 PM 3:36

FILED

Dear Commissioners:

Subject: Hawaiian Electric Energy Cost Adjustment Factor for April 2016

Hawaiian Electric Company Inc.'s ("Hawaiian Electric" or "Company") April 2016 energy cost adjustment factor is -5.393 cents per kilowatt-hour ("kWh"), an increase of 0.105 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$123.34, an increase of \$0.28 compared to rates effective March 1, 2016. The increase in the typical residential bill is due to the increase in the energy cost adjustment factor (+\$0.52), the increase in the Purchased Power Adjustment Clause rate (+\$0.13), the increase in the Residential DSM Surcharge Adjustment (+\$0.24), and the credit for the SolarSaver Adjustment (-\$0.61).

The Company's fuel composite cost of generation decreased 65.01 cents per million BTU to 585.39 cents per million BTU. The Company's Distributed Generation ("DG") energy component remained at 0.003 cents per kWh. The composite cost of purchased energy increased 0.604 cents per kWh to 7.282 cents per kWh.

The attached sheets set forth the energy cost adjustment factor in cents per kWh for each rate schedule that is applicable for prorata use beginning April 1, 2016.

Very truly yours,

Dean K. Matsuura
Manager, Regulatory Rate Proceedings

Attachments

cc: Division of Consumer Advocacy

Hawaiian Electric Company, Inc.
ENERGY COST ADJUSTMENT FACTOR

	<u>Effective Dates</u>		<u>Change</u>
	<u>3/1/16</u>	<u>04/01/16</u>	
Composite Cost Of Generation, ¢/mmbtu	650.40	585.39	(65.01)
DG Energy Component, ¢/kWh	0.003	0.003	0.000
Composite Cost Of Purchased Energy, ¢/kWh	6.678	7.282	0.604
 <u>Residential, Schedule "R"</u>			
Energy Cost Adjustment, ¢/kWh	(5.498)	(5.393)	0.105
 <u>Others, Schedules "G,J,DS,P,F"</u>			
Energy Cost Adjustment, ¢/kWh	(5.498)	(5.393)	0.105
 <u>Residential Customer with:</u>			
600 kWh Consumption, \$/bill	146.43	146.76	0.33
500 kWh Consumption, \$/bill	123.06	123.34	0.28

Supersedes Sheet Effective:

March 1, 2016

Hawaiian Electric Company, Inc.
ENERGY COST ADJUSTMENT FILING

ENERGY COST ADJUSTMENT (ECA) FILING - April 1, 2016 (page 1 of 2)

Line		
1	Effective Date	- April 1, 2016
2	Supersedes Factor	- March 1, 2016

GENERATION COMPONENT

CENTRAL STATION					DG ENERGY COMPONENT			
FUEL PRICES, ¢/MBTU								
3	Honolulu			553.36				
4	Kahe			553.68				
5	Waiau-Steam			553.36				
6	Waiau-Diesel			1,101.84				
7	CIP-Diesel			N/A				
8	CIP-Biodiesel			2,408.34				
9	Other			0				
BTU MIX, %								
10	Honolulu			0.00	32	COMPOSITE COST OF DG ENERGY, ¢/kWh	7.590	
11	Kahe			67.16	33	% Input to System kWh Mix	0.04	
12	Waiau-Steam			29.97				
13	Waiau-Diesel			1.64				
14	CIP-Diesel			N/A				
15	CIP-Biodiesel			1.23	34	WTD COMP DG ENRGY COST, ¢/kWh (Lines 32 x 33)	0.00304	
16	Other			0.00				
					100.00			
17	COMPOSITE COST OF GENERATION, CNTRL STN + OTHER ¢/mmbtu			585.39	35	BASE DG ENERGY COMP COST	0.000	
18	% Input to system kWh Mix			40.64	36	Base % Input to System kWh Mix	0.00	
EFFICIENCY FACTOR, mmbtu/kWh								
	(A)	(B)	(C)	(D)				
		Eff Factor	Percent of	Weighted				
	Fuel Type	mmbtu/kwh	Centrl Stn + Other	Eff Factor				
19	LSFO	0.011079	98.49	0.010912	37	WTD BASE DG ENERGY COST, ¢/kWh (Line 35 x 36)	0.00000	
20	Diesel	0.019721	0.87	0.000172				
21	Biodiesel	0.020169	0.64	0.000129				
22	Other	0.011143	0.00	0.000000				
(Lines 19 through 22): Col(B) x Col(C) = Col(D)								
23	Weighted Efficiency Factor, mmbtu/kWh [(lines 19(D) + 20(D) + 21(D) + 22(D))]			0.011213	38	Cost Less Base (Line 34 - 37)	0.00304	
24	WGTD. COMPOSITE CNTRL STN + OTHER GEN COST, ¢/kWh (lines 17 x 18 x 23)			2.66760	39	Loss Factor	1.053	
25	BASE CNTRL STN + OTHER GEN. COST, ¢/Mbtu			1,354.58	40	Revenue Tax Req Multiplier	1.0975	
26	Base % Input to System kWh Mix			57.59	41	DG FACTOR, ¢/kWh (Line 38 x 39 x 40)	0.00351	
27	Efficiency Factor, Mbtu/kWh			0.011142				
28	WEIGHTED BASE CNTRL STN + OTHER GEN COST ¢/KWH (lines 25 x 26 x 27)			8.69190				
29	Cost Less Base (Line 24 - 28)			(6.02430)	SUMMARY OF TOTAL GENERATION FACTOR, ¢/kWh			
30	Revenue Tax Req Multiplier			1.0975	42	CNTRL STN + OTHER (line 31)	(6.61167)	
31	CNTRL STN + OTHER GENERATION FACTOR, ¢/KWH (Line 29 x 30)			(6.61167)	43	DG (line 41)	0.00351	
					44	TOTAL GENERATION FACTOR, ¢/KWH (lines 42 + 43)	(6.60816)	

Hawaiian Electric Company, Inc.
ENERGY COST ADJUSTMENT FILING

ENERGY COST ADJUSTMENT (ECA) FILING - April 1, 2016 (page 2 of 2)

<u>Line</u>		
1	Effective Date	- April 1, 2016
2	Supersedes Factor	- March 1, 2016

<u>Line</u>	<u>PURCHASED ENERGY COMPONENT</u>		
	PURCHASED ENERGY PRICE - ¢/KWH		
45	THC	- On Peak	6.095
46		- Off Peak	5.963
47	HRRV	- On Peak	16.65
48		- Off Peak	16.17
49	HRRV	- On Peak (excess)	10.60
50		- Off Peak (excess)	6.36
51	Chevron	- On Peak	6.095
52		- Off Peak	5.963
53	Kalaeloa		6.316
54	AES-HI		3.135
55	Kawailoa		21.417
56	Kahuku Wind		19.273
57	As Available I		21.425
58	FIT		18.992
	PURCHASED ENERGY KWH MIX, %		
59	THC	- On Peak	0.21
60		- Off Peak	0.15
61	HRRV	- On Peak	6.96
62		- Off Peak	2.34
63	HRRV	- On Peak (excess)	0.00
64		- Off Peak (excess)	0.81
65	Chevron	- On Peak	0.00
66		- Off Peak	0.00
67	Kalaeloa		41.49
68	AES-HI		39.09
69	Kawailoa		4.17
70	Kahuku Wind		3.39
71	As Available I		0.62
72	FIT		0.77
			100.00
73	COMPOSITE COST OF PURCHASED ENERGY, ¢/KWH		7.282
74	% Input to System kWh Mix		59.32
75	WTD CMP PURCH ENRGY COST, ¢/KWH (lines 73 x 74)		4.31968
76	BASE PURCH ENERGY COMP COST		8.328
77	Base % Input to System kWh Mix		42.41
78	WEIGHTED COMP. PURCH. ENERGY COST, ¢/KWH (lines 76 x 77)		3.53190
79	Cost Less Base (Line 75 - 78)		0.78778
80	Loss Factor		1.053
81	Revenue Tax Req Multiplier		1.0975
82	PURCHASED ENERGY FACTOR, ¢/KWH (lines 79 x 80 x 81)		0.91041

<u>Line</u>	<u>SYSTEM COMPOSITE</u>	
83	GEN AND PURCHASED ENERGY FACTOR, ¢/kWh (lines 44 + 82)	(5.69775)
84	Adjustment, ¢/kWh	0.000
85	ECA Reconciliation Adjustment	0.305
86	ECA FACTOR, ¢/kWh (lines 83 + 84 + 85)	(5.393)

Hawaiian Electric Company, Inc.
FUEL OIL INVENTORY PRICES FOR 03-01-16

	Honolulu	Kahe	Waiiau
Average Low Sulfur Fuel Oil, ¢/Mbtu	553.36	553.36	553.36
Kahe Fuel Additive, ¢/Mbtu	-	0.32	-
Honolulu Trucking Cost, ¢/Mbtu	-	-	-
Low Sulfur Fuel Oil Prices Used For Filing, ¢/Mbtu	553.36	553.68	553.36
	Waiiau	CIP	
Average Diesel / Biodiesel Oil, ¢/Mbtu	1,101.84	2,408.34	
Thruput Charges, ¢/Mbtu	-	-	
Diesel / Biodiesel Oil Prices Used for Filing, ¢/Mbtu	1,101.84	2,408.34	
	Honolulu	Kahe	Waiiau
Average Low Sulfur Fuel Oil, \$/bbl	34.83	34.83	34.83
Kahe Fuel Additive, \$/bbl	-	0.02	-
Honolulu Trucking Cost, \$/bbl	-	-	-
Low Sulfur Fuel Oil Prices Used For Filing, \$/bbl	34.83	34.85	34.83
	Waiiau	CIP	
Average Diesel / Biodiesel Oil, \$/bbl	63.39	127.14	
Thruput Charges, ¢/Mbtu	-	-	
Diesel / Biodiesel Oil Prices Used for Filing, \$/bbl	63.39	127.14	
Distributed Generation Fuel Prices Used for Filing, ¢/kWh			7.590

FOAC April 2016

<u>LSFO</u>	BARRELS	MBTU	AMOUNT	AVE \$/MBTU
Per FOAC run	835,676	5,260,517.99	29,109,846.62	5.533646
Additional	-	-	-	-
Forecast Amt	835,676	5,260,517.99	29,109,846.62	5.533646
	-	6.20	-	ADD'L BBL
	5,260,518	835,676	6.2949	MBTU / BBL
	29,109,847	835,676	34.83	DOLLARS / BBL
<u>WAIU DIESEL</u>	24,956	143,563.76	1,581,847.82	11.018434
	1,581,848	24,956	63.39	DOLLARS / BBL
<u>CIP BIODIESEL</u>	41,243	217,736.30	5,243,820.80	24.083355
	5,243,821	41,243	127.14	DOLLARS / BBL
KAHE FUEL ADDITIVE *				
Additional	-	-	-	0.003194
Forecast Amt	-	-	-	0.003194
\$ / BBL =		-	0.02	DOLLARS / BBL
HONOLULU TRUCKING COST				
Per FOAC run	-	-	-	-
Additional	-	-	-	-
Forecast Amt	-	-	-	-
\$ / BBL =	-	-	-	DOLLARS / BBL

* Annualized amount per HECO T-4 in Docket No. 2010-0080

Hawaiian Electric Company, Inc.

CONTRACT PRICES EFFECTIVE 3-1-16

<u>TYPE OF OIL BURNED</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>
LOW SULFUR FUEL OIL		
Tax *	2.6270	42.39
Ocean Transportation	0.0000	0.00
Land Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.0000	0.00
DIESEL		
Tax *	3.8532	65.76
Ocean Transportation	0.0000	0.00
Land Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.0000	0.00
BIODIESEL		
Tax *	0.0000	0.00
Ocean Transportation	0.0000	0.00
Land Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.0000	0.00

* Tax includes HGET, Hawaii Use Tax, Liquid Fuel Tax, LUST, Federal Oil Spill Recovery Fee, and Environmental Response, Energy and FS Tax.

Note: Since these components 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 the fuel.

HAWAIIAN ELECTRIC COMPANY, INC.

DETERMINATION OF DISTRIBUTED GENERATION EXPENSE

<u>Line No.</u>		
L1	Estimated Distributed Generation Fuel Cost (\$/mbtu)	\$7.34
L2	Estimated Distributed Generation Fuel Transport Cost (\$/mbtu)	\$0.00
L3 = L1+ L2	Estimated Total Fuel and Transportation Cost (\$/mbtu)	\$7.34
L4	Estimated Mbtu Generation for month (April 2016)	2,700
L5 = L3 x L4	Estimated Distributed Generation Total Fuel Cost (\$)	\$19,809
L6	Estimated Distributed Generation kWh Produced (April 2016)	261,000
L7 = (L5 ÷ L6) x 100	Distributed Generation Fuel Prices Used for Filing, (¢/kWh)	7.5900

Hawaiian Electric Company, Inc.
ECA RECONCILIATION ADJUSTMENT
April 2016

1.	Amount to be collected	\$	4,371,700
2.	Monthly Amount (Line 1 x 1/3)	\$	1,457,233
3.	Revenue Tax Divisor		0.91115
4.	Total (Line 2 / Line 3)	\$	1,599,334
5.	Estimated MWh Sales (April 2016)		523,900
6.	ECA Reconciliation Adjustment, ¢/kWh (Line 4 ÷ Line 5)		<u><u>0.305</u></u>

HAWAIIAN ELECTRIC COMPANY, INC.
2016 Cumulative Reconciliation Balance

	(1)		(2)	(3)	(4)	(5)	(6)
<u>Month</u>	<u>YTD FOA Reconciliation</u>	<u>Qtr</u>	<u>FOA Rec Adjust Variance</u>	<u>FOA Rec Less Variance</u>	<u>Try to Collect</u>	<u>Actual Collect</u>	<u>Month-end Cumulative Balance</u>
December '15					4,516,067	4,466,182	(4,472,032)
January '16					4,516,067	4,450,144	(21,888)
February	(4,371,700)	(4)	44,029	(4,415,729)	1,457,233	1,422,190	(3,015,427)
March					1,457,233		
April					1,457,233		

NOTES:

- Col(1): Quarterly FOA reconciliation amounts. (Refer to Attachment 4)
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))

Hawaiian Electric Company, Inc.
FUEL OIL ADJUSTMENT FACTOR DATA

<u>EFFECTIVE DATE</u>	<u>FUEL FACTOR CENTS / KWH RESIDENTIAL & COMMERCIAL</u>	<u>RESIDENTIAL BILL (\$)</u>	
		<u>@ 500 KWH</u>	<u>@ 600 KWH</u>
January 1, 2012	11.428	171.04	204.17
February 1, 2012	10.924	167.64	200.11
March 1, 2012	11.530	170.67	203.74
April 1, 2012	11.600	170.71	203.79
May 1, 2012	13.122	180.63	215.69
June 1, 2012	13.274	183.06	218.60
July 1, 2012	12.917	181.60	216.85
August 1, 2012	12.332	180.60	215.65
September 1, 2012	7.083	175.67	209.82
October 1, 2012	7.023	176.13	210.37
November 1, 2012	5.828	167.64	200.18
December 1, 2012	5.029	163.64	195.38
January 1, 2013	5.885	168.27	200.91
February 1, 2013	7.674	180.93	216.11
March 1, 2013	8.113	183.12	218.75
April 1, 2013	5.602	170.09	203.11
May 1, 2013	5.631	167.15	199.59
June 1, 2013	5.502	171.23	204.47
July 1, 2013	5.422	171.06	204.27
August 1, 2013	5.844	175.95	210.14
September 1, 2013	4.640	170.05	203.06
October 1, 2013	5.521	174.43	208.32
November 1, 2013	5.406	174.29	208.15
December 1, 2013	5.087	172.67	206.20
January 1, 2014	5.946	176.84	211.22
February 1, 2014	7.338	181.96	217.36
March 1, 2014	5.978	176.41	210.70
April 1, 2014	6.057	177.55	212.05
May 1, 2014	5.541	176.07	210.28
June 1, 2014	5.685	180.90	216.08
July 1, 2014	5.721	181.86	217.24
August 1, 2014	5.901	182.65	218.17
September 1, 2014	5.988	183.30	218.96
October 1, 2014	5.155	179.10	213.91
November 1, 2014	3.694	170.67	203.79
December 1, 2014	2.659	165.48	197.32
January 1, 2015	1.065	157.06	187.22
February 1, 2015	-0.755	148.91	177.45
March 1, 2015	-1.863	142.92	170.25
April 1, 2015	-1.151	140.96	167.91
May 1, 2015	-1.931	140.48	167.34
June 8, 2015	-1.624	144.54	172.20
July 1, 2015	-0.997	146.21	174.20
August 1, 2015	-1.673	142.51	169.75
September 1, 2015	-1.343	144.33	171.94
October 1, 2015	-2.793	136.95	163.07
November 1, 2015	-3.179	132.36	157.57
December 1, 2015	-3.353	131.47	156.51
January 1, 2016	-3.748	129.34	153.97
February 1, 2016	-4.637	127.47	151.74
March 1, 2016	-5.498	123.06	146.43
April 1, 2016	-5.393	123.34	146.76

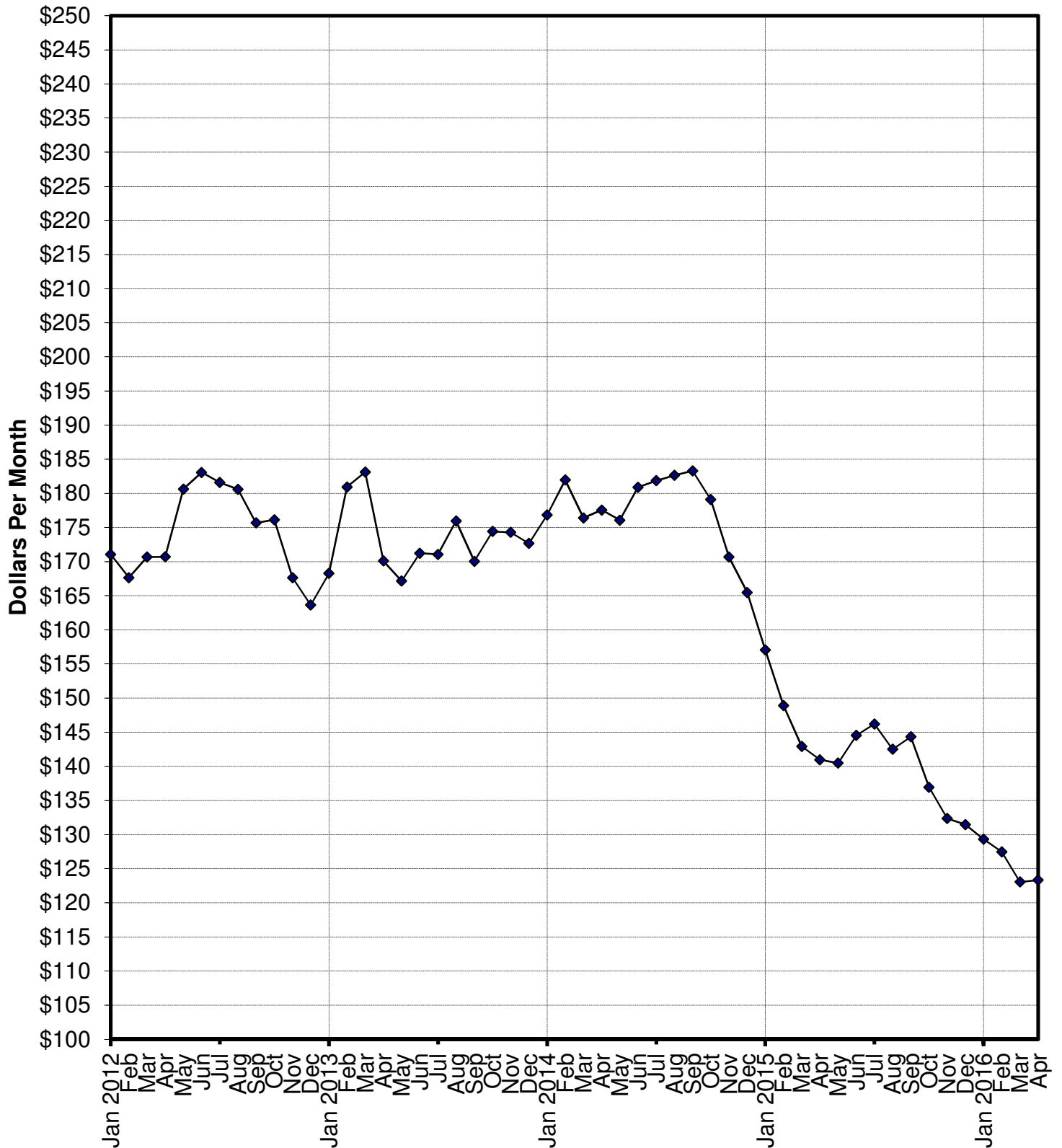
**Hawaiian Electric Company, Inc.
RESIDENTIAL SURCHARGE DATA**

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
09/01/12	FINAL RATE INCREASE (TY2011) 3.39% EFFECTIVE 09/01/12, DOCKET NO. 2010-0080	
9/1/2012 - 09/30/2012	REFUND OF 2011 INTERIM RATE INCREASE	-0.64 PERCENT ON BASE
10/1/2012 - 12/31/2012	REFUND OF 2011 INTERIM RATE INCREASE	0.00 PERCENT ON BASE
11/1/2012 - 01/31/2013	PURCHASED POWER ADJUSTMENT CLAUSE	2.6960 CENTS/KWH
1/1/2013 - 01/31/2013	REFUND OF 2011 INTERIM RATE INCREASE	-0.18 PERCENT ON BASE
1/1/2013 - 6/30/2013	RESID. PBF SURCHARGE ADJUSTMENT	0.7850 CENTS/KWH
2/1/2013	REFUND OF 2011 INTERIM RATE INCREASE	0.00 PERCENT ON BASE
2/1/2013 - 4/30/2013	PURCHASED POWER ADJUSTMENT CLAUSE	3.3989 CENTS/KWH
4/1/2013 - 4/30/2013	SOLARSAVER ADJUSTMENT	-0.1196 CENTS/KWH
4/1/2013 - 3/31/2014	RESIDENTIAL DSM ADJUSTMENT	0.1067 CENTS/KWH
5/1/2013 - 3/31/2014	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
5/1/2013 - 7/31/2013	PURCHASED POWER ADJUSTMENT CLAUSE	2.6617 CENTS/KWH
5/15/2013 - 2/28/2014	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0211 CENTS/KWH
6/1/2013 - 5/31/2014	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.3119 CENTS/KWH
7/1/2013 - 6/30/2014	RESID. PBF SURCHARGE ADJUSTMENT	0.8312 CENTS/KWH
8/1/2013 - 8/31/2013	PURCHASED POWER ADJUSTMENT CLAUSE	3.2174 CENTS/KWH
9/1/2013 - 9/30/2013	PURCHASED POWER ADJUSTMENT CLAUSE	3.2422 CENTS/KWH
10/1/2013 - 10/31/2013	PURCHASED POWER ADJUSTMENT CLAUSE	3.2377 CENTS/KWH
11/1/2013 - 11/30/2013	PURCHASED POWER ADJUSTMENT CLAUSE	3.3246 CENTS/KWH
12/1/2013 - 12/31/2013	PURCHASED POWER ADJUSTMENT CLAUSE	3.3179 CENTS/KWH
1/1/2014 - 1/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	3.2943 CENTS/KWH
2/1/2014 - 2/28/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.9263 CENTS/KWH
3/1/2014 - 3/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	3.1754 CENTS/KWH
3/1/2014 - 7/6/2014	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0226 CENTS/KWH
4/1/2014 - 4/30/2014	PURCHASED POWER ADJUSTMENT CLAUSE	3.4058 CENTS/KWH
4/1/2014 - 3/31/2015	RESIDENTIAL DSM ADJUSTMENT	0.1423 CENTS/KWH
4/1/2014 - 4/30/2014	SOLARSAVER ADJUSTMENT	-0.1177 CENTS/KWH
5/1/2014 - 5/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	3.4058 CENTS/KWH
5/1/2014 - 3/31/2015	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
6/1/2014 - 6/30/2014	PURCHASED POWER ADJUSTMENT CLAUSE	3.5152 CENTS/KWH
6/1/2014 - 5/31/2015	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	2.1269 CENTS/KWH
7/1/2014 - 7/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	3.4876 CENTS/KWH
7/1/2014 - 11/30/2014	RESID. PBF SURCHARGE ADJUSTMENT	1.0157 CENTS/KWH
7/7/2014 - 02/28/2015	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0223 CENTS/KWH
8/1/2014 - 8/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	3.4655 CENTS/KWH
9/1/2014 - 9/30/2014	PURCHASED POWER ADJUSTMENT CLAUSE	3.5100 CENTS/KWH
10/1/2014 - 10/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	3.5018 CENTS/KWH
11/1/2014 - 11/30/2014	PURCHASED POWER ADJUSTMENT CLAUSE	3.2773 CENTS/KWH
12/1/2014 - 12/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	3.2747 CENTS/KWH
12/1/2014 - 06/30/2015	GREEN INFRASTRUCTURE FEE	1.2900 DOLLARS/MONTH
12/1/2014 - 6/30/2015	RESID. PBF SURCHARGE ADJUSTMENT	0.7583 CENTS/KWH
01/1/2015 - 01/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	3.1849 CENTS/KWH
02/1/2015 - 02/28/2015	PURCHASED POWER ADJUSTMENT CLAUSE	3.3760 CENTS/KWH
03/1/2015 - 03/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	3.2873 CENTS/KWH
3/1/2015 - 08/16/2015	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0204 CENTS/KWH
04/1/2015 - 04/30/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.4105 CENTS/KWH
4/1/2015 - 4/30/2015	SOLARSAVER ADJUSTMENT	-0.1178 CENTS/KWH
4/1/2015 - 03/31/2016	RESIDENTIAL DSM ADJUSTMENT	0.0348 CENTS/KWH
05/1/2015 - 05/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.9760 CENTS/KWH
5/1/2015 - 03/31/2016	SOLAR SAVER ADJUSTMENT	0.00 CENTS/KWH
06/1/2015 - 06/30/2015	PURCHASED POWER ADJUSTMENT CLAUSE	3.4972 CENTS/KWH
06/1/2015 - 06/7/2015	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.00 CENTS/KWH
6/8/2015	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	2.1078 CENTS/KWH
07/1/2015 - 07/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	3.4646 CENTS/KWH
7/1/2015	RESID. PBF SURCHARGE ADJUSTMENT	0.4749 CENTS/KWH
7/1/2015 - 12/31/2015	GREEN INFRASTRUCTURE FEE	1.4200 DOLLARS/MONTH
08/1/2015 - 08/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	3.4002 CENTS/KWH
8/17/2015 - 12/16/2015	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0304 CENTS/KWH
09/1/2015 - 09/30/2015	PURCHASED POWER ADJUSTMENT CLAUSE	3.4246 CENTS/KWH
10/1/2015 - 10/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	3.3971 CENTS/KWH
11/1/2015 - 11/30/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.8651 CENTS/KWH
12/1/2015 - 12/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.8628 CENTS/KWH
01/1/2016 - 01/31/2016	PURCHASED POWER ADJUSTMENT CLAUSE	2.8642 CENTS/KWH
12/17/2015 - 02/29/2016	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0204 CENTS/KWH
01/01/2016 - 06/30/2016	GREEN INFRASTRUCTURE FEE	1.3000 DOLLARS/MONTH
02/1/2016 - 02/29/2016	PURCHASED POWER ADJUSTMENT CLAUSE	3.3809 CENTS/KWH
03/1/2016 - 03/31/2016	PURCHASED POWER ADJUSTMENT CLAUSE	3.3578 CENTS/KWH
3/1/2016	RENEWABLE ENERGY INFRASTRUCTURE COST	0.0204 CENTS/KWH
04/1/2016 - 04/30/2016	SOLAR SAVER ADJUSTMENT	-0.1223 CENTS/KWH
04/1/2016 - 04/30/2016	PURCHASED POWER ADJUSTMENT CLAUSE	3.3834 CENTS/KWH
4/1/2016	RESIDENTIAL DSM ADJUSTMENT	0.0811 CENTS/KWH

~ Surcharges currently in effect are in bold.

~ Base charges include customer charge, demand charge, energy charge, power factor adjustment, voltage discount and minimum charge.

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



Hawaiian Electric Company, Inc.
CALCULATIONS OF THE AVERAGE RESIDENTIAL CUSTOMER BILL

	Rate		Charge (\$) at 500 kWh			
	3/1/2016	4/1/2016	3/1/2016	4/1/2016	Difference	
Base Rates	effective date:	09/01/12	09/01/12			
Base Fuel/Energy Charge	¢/kWh	13.6062	13.6062	68.03	68.03	0.00
Non-fuel Fuel Energy Charge						
First 350 kWh per month	¢/kWh	8.1034	8.1034	28.36	28.36	0.00
Next 850 kWh per month	¢/kWh	9.2569	9.2569	13.89	13.89	0.00
Customer Charge	\$	9.00	9.00	9.00	9.00	0.00
Total Base Charges				119.28	119.28	0.00
Purchase Power Adjustment	¢/kWh	3.3578	3.3834	16.79	16.92	0.13
RBA Rate Adjustment	¢/kWh	2.1078	2.1078	10.54	10.54	0.00
DSM Adjustment	¢/kWh	0.0348	0.0811	0.17	0.41	0.24
Interim Rate Increase (TY 2011)	% on base	0.000%	0.000%	0.00	0.00	0.00
Refund of 2011 Interim	% on base	0.000%	0.000%	0.00	0.00	0.00
PBF Surcharge	¢/kWh	0.4749	0.4749	2.37	2.37	0.00
Renewable Energy Infrastructure Cost						
Recovery Provision	¢/kWh	0.0204	0.0204	0.10	0.10	0.00
SolarSaver Adjustment	¢/kWh	0.0000	-0.1223	0.00	-0.61	-0.61
Energy Cost Adjustment	¢/kWh	-5.498	-5.393	-27.49	-26.97	0.52
Green Infrastructure Fee	\$	1.30	1.30	1.30	1.30	0.00
Avg Residential Bill at 500 kWh				123.06	123.34	

Increase / (Decrease -) 0.28
% Change 0.23%

	Rate		Charge (\$) at 600 kWh			
	3/1/2016	4/1/2016	3/1/2016	4/1/2016	Difference	
Base Rates	effective date:	09/01/12	09/01/12			
Base Fuel/Energy Charge	¢/kWh	13.6062	13.6062	81.64	81.64	0.00
Non-fuel Fuel Energy Charge						
First 350 kWh per month	¢/kWh	8.1034	8.1034	28.36	28.36	0.00
Next 850 kWh per month	¢/kWh	9.2569	9.2569	23.14	23.14	0.00
Customer Charge	\$	9.00	9.00	9.00	9.00	0.00
Total Base Charges				142.14	142.14	0.00
Purchase Power Adjustment	¢/kWh	3.3578	3.3834	20.15	20.30	0.15
RBA Rate Adjustment	¢/kWh	2.1078	2.1078	12.65	12.65	0.00
DSM Adjustment	¢/kWh	0.0348	0.0811	0.21	0.49	0.28
Interim Rate Increase (TY 2011)	% on base	0.000%	0.000%	0.00	0.00	0.00
Refund of 2011 Interim	% on base	0.000%	0.000%	0.00	0.00	0.00
PBF Surcharge	¢/kWh	0.4749	0.4749	2.85	2.85	0.00
Renewable Energy Infrastructure Cost						
Recovery Provision	¢/kWh	0.0204	0.0204	0.12	0.12	0.00
SolarSaver Adjustment	¢/kWh	0.0000	-0.1223	0.00	-0.73	-0.73
Energy Cost Adjustment	¢/kWh	-5.498	-5.393	-32.99	-32.36	0.63
Green Infrastructure Fee	\$	1.30	1.30	1.30	1.30	0.00
Avg Residential Bill at 600 kWh				146.43	146.76	

Increase / (Decrease -) 0.33
% Change 0.23%