

State of Hawaii



Public Utilities Commission

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SHARON M. SUZUKI
President

March 29, 2016

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

Dear Commissioners:

Subject: Maui Electric Energy Cost Adjustment Factor for April 2016

Maui Electric Company, Limited's ("Maui Electric" or "Company") April 2016 energy cost adjustment factor for our Maui Division is -8.768 cents per kilowatt-hour ("kWh"), an increase of 0.428 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$140.37, an increase of \$1.20 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 (+\$2.14), the decrease in the Purchased Power Adjustment Clause rate (-\$0.02), and the credit for the SolarSaver Adjustment (-\$0.92).

The Company's Maui Division fuel composite cost of generation, central station and other decreased 18.33 cents per million BTU to 858.01 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy increased 0.060 cents per kWh to 18.878 cents per kWh.

The energy cost adjustment factor for our Lāna'i Division for April 2016 is -15.204 cents per kWh, an increase of 0.629 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$125.90, an increase of \$1.78 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 (+\$2.51) and the credit for the SolarSaver Adjustment (-\$0.73).

The Company's Lāna'i Division fuel composite cost of generation, central station and other increased 43.23 cents per million BTU to 1,252.80 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy is 27.000 cents per kWh.

The energy cost adjustment factor for our Moloka'i Division for April 2016 is -13.391 cents per kWh, a decrease of 0.742 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$118.92, a decrease of \$3.69 compared to rates effective March 1, 2016. The decrease in the typical residential bill is due to the decrease in the energy cost adjustment factor (-\$2.96) and the credit for the SolarSaver Adjustment (-\$0.73).

The Honorable Chair and Members
of the Hawai'i Public Utilities Commission
March 29, 2016
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The Company's Moloka'i Division fuel composite cost of generation, central station and other decreased 60.44 cents per million BTU to 1,057.44 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy is 21.80 cents per kWh.

The attached sheets set forth the fuel adjustment in cents per kWh for each rate schedule that is applicable for pro rata use beginning April 1, 2016.

Sincerely,

/s/ Sharon M. Suzuki

Sharon M. Suzuki
President

Attachments

cc: Division of Consumer Advocacy

**MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION**

ENERGY COST ADJUSTMENT FACTOR

	EFFECTIVE DATES		<u>Change</u>
	<u>03-01-16</u>	<u>04-01-16</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	1,209.57	1,252.80	43.23
DG Energy, ¢/kWh	0.00	0.00	0.00
Purchased Energy, ¢/kWh	27.00	27.00	0.00
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment, ¢/kWh	(15.833)	(15.204)	0.629
<u>Others - "G,P,F"</u>			
Energy Cost Adjustment, ¢/kWh	(15.833)	(15.204)	0.629
<u>Residential Customer with</u>			
400 KWH Consumption, \$/Bill	124.12	125.90	1.78
500 KWH Consumption, \$/Bill	154.24	156.47	2.23

Supersedes Sheet Effective:

March 1, 2016

MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION

ENERGY COST ADJUSTMENT (ECA) FILING

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

<u>Line</u>		
1	Effective Date	April 1, 2016
2	Supercedes Factors of	March 1, 2016

GENERATION COMPONENT

<u>CENTRAL STATION</u>					
FUEL PRICES, ¢/mmbtu					
3	Industrial		0.00		
4	Diesel - Miki Basin		1,252.80		
5	Diesel - Manele Bay		0.00		
6	Other		0.00		
BTU MIX, %					
7	Industrial		0.00%		
8	Diesel - Miki Basin		100.00%		
9	Diesel - Manele Bay ¹		0.00%		
10	Other		0.00%		
			100.00%		
11	COMPOSITE COST OF GENERATION, CENTRAL STATION + OTHER ¢/mmbtu (Lines (3 x 7) + (4 x 8) + (5 x 9) + (6 x 10))		1,252.80		
12	% Input to System kWh Mix		90.48%		
EFFICIENCY FACTOR, mmbtu/kWh					
	(A)	(B)	(C)	(D)	
			Percent of		
		Eff Factor	Centrl Stn +	Weighted	
	<u>Fuel Type</u>	<u>mmbtu/kwh</u>	<u>Other</u>	<u>Eff Factor</u>	
13	Industrial	0.000000	0.00	0.000000	
14	Diesel	0.011151	100.00	0.011151	
15	Other	0.011151	0.00	0.000000	
	(Lines 13, 14, 15): Col(B) x Col(C) = Col(D)				
16	Weighted Efficiency Factor, mmbtu/kWh [lines 13(D) + 14(D) + 15(D)]			0.011151	
17	WEIGHTED COMPOSITE CENTRAL STATION + OTHER GEN COST, ¢/kWh (lines (11 x 12 x 16))			12.64003	
18	BASE CENTRAL STATION + OTHER GENERATION COST, ¢/mmbtu			2,647.15	
19	Base % Input to Sys kWh Mix			89.65%	
20	Efficiency Factor, mmbtu/kwh			0.011151	
21	WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST ¢/kWh (lines (18 x 19 x 20))			26.46322	
22	COST LESS BASE (line(17 - 21))			(13.82319)	
23	Revenue Tax Req Multiplier			1.0975	
24	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (22 x 23))			-15.17095	
				<u>DG ENERGY COMPONENT</u>	
				25 COMPOSITE COST OF DG ENERGY, ¢/kWh	0.000
				26 % Input to System kWh Mix	0.00%
				27 WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 25 x 26)	0.00000
				28 BASE DG ENERGY COMP COST	0.000
				29 Base % Input to System kWh Mix	0.00%
				30 WEIGHTED BASE DG ENERGY COST, ¢/kWh (Line 28 x 29)	0.00000
				31 Cost Less Base (Line 27 - 30)	0.00000
				32 Loss Factor	1.0510
				33 Revenue Tax Req Multiplier	1.0975
				34 DG FACTOR, ¢/kWh (Line 31 x 32 x 33)	0.00000
				SUMMARY OF TOTAL GENERATION FACTOR, ¢/kWh	
				35 CNTRL STN + OTHER (line 24)	(15.17095)
				36 DG (line 34)	-
				37 TOTAL GENERATION FACTOR, ¢/kWh (lines 35 + 36)	(15.17095)

¹ The Manele CHP experienced a catastrophic fire on March 6, 2015. Its return to service is undetermined at this time.

MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION

ENERGY COST ADJUSTMENT (ECA) FILING

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

<u>Line</u>		
1	Effective Date	April 1, 2016
2	Supercedes Factors of	March 1, 2016

<u>Line</u>	<u>PURCHASED ENERGY COMPONENT</u>	
	PURCHASED ENERGY PRICE, ¢/kWh	
38	LANAI SOLAR RESEARCH - On Peak	27.000
39	- Off Peak	27.000
40	Sch Q	0.000
	PURCHASED ENERGY KWH MIX, %	
41	LANAI SOLAR RESEARCH - On Peak	100.00%
42	- Off Peak	0.00%
43	Sch Q	0.00%
44	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh (Lines (38 x 41) + (39 x 42) + (40 x 43))	27.000
45	% Input to System kWh Mix	9.52%
46	WEIGHTED COMP. PURCH. ENERGY COST, ¢/kWh (lines (44 x 45))	2.57040
47	BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh	27.000
48	Base % Input to Sys kWh Mix	10.35
49	WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (lines (47 x 48))	2.79450
50	COST LESS BASE(lines (46 - 49))	(0.22410)
51	Loss Factor	1.051
52	Revenue Tax Req Multiplier	1.0975
53	PURCHASED ENERGY FACTOR, ¢/kWh (lines (50 x 51 x 52))	(0.25849)

<u>Line</u>	<u>SYSTEM COMPOSITE CALCULATIONS</u>	
54	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (lines (37 + 53))	(15.42944)
55	Adjustment, ¢/kWh	0.000
56	ECA Reconciliation Adjustment	0.225
57	ECA FACTOR, ¢/kWh (lines (54 + 55 + 56))	(15.204)

Maui Electric Company, Ltd.
Lanai Division

MONTH END FUEL OIL ESTIMATE

<u>Miki Basin - ULSD</u>	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
3/21/2016	4,113.48	23,570.24	291,902.15
Estimated Use	1,285.21	7,364.25	89,075.80
Estimated Received	857.14	4,911.41	61,071.31
Estimated Additional	94.35	540.60	7,435.14
Estimated End	<u>3,779.76</u>	<u>21,658.00</u>	<u>271,332.80</u>

Next Month's Combined Miki Expense (\$/bbl) = \$ 71.7857 /bbl

FUEL OIL INVENTORY PRICE USED FOR FILING

<u>Type of Oil Burned</u>	<u>Price</u>	<u>Conversion Factor</u>	<u>Prices ¢/MBTU</u>
Diesel - Miki Basin	\$ 71.7857	5.73 BTU/BBL	1,252.80

**MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION**

Contract Prices effective March 1, 2016

<u>TYPE OF OIL BURNED</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>
---------------------------	---------------	---------------

MIKI BASIN - ULTRA LOW SULFUR DIESEL (DYED)

Tax *	1.5120	26.39
Ocean Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.0000	0.00

MIKI BASIN - ULTRA LOW SULFUR DIESEL

Tax *	1.5120	26.39
Ocean Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.0000	0.00

MANELE BAY - ULTRA LOW SULFUR DIESEL

Tax *	4.5496	79.40
Ocean 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 tax and Environmental Response 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.

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

MAUI ELECTRIC COMPANY, LTD.
Lanai Division
ECA Reconciliation Adjustment

April 2016

1. Amount to be Collected	\$13,300
2. Monthly amount (1 / 3 X Line 1)	\$4,433
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	\$4,865
5. Estimated Sales (April 2016)	2,160 mwh
6. Adjustment (Line 4 ÷ Line 5)	0.225 ¢/kwh

**MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION
2016 Cumulative Reconciliation Balance**

<u>Month</u>	(1) <u>YTD FOA Reconciliation</u>	<u>Qtr</u>	(2) <u>FOA Rec Adjust Variance</u>	(3) <u>FOA Rec Less Variance</u>	(4) <u>Try to Collect</u>	(5) <u>Actual Collect</u>	(6) <u>Month-end Cumulative Balance</u>
December '15					(2,067)	(2,151)	1,855
January '16					(2,067)	(2,194)	(339)
February	(13,300)	(4)	(208)	(13,092)	4,433	4,591	(8,840)
March					4,433		
April					4,433		

NOTES:

- Col(1): Quarterly FOA reconciliation amounts. (Refer to Attachment 13)
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))

**Maui Electric Company, Ltd.
Lanai Division
Calculations of the Average Residential Customer Bill**

	Rate		Charge (\$) at 400 Kwh			
	03-01-16	04-01-16	03-01-16	04-01-16	Difference	
Base Rates	effective date:	08/01/13	08/01/13			
Base Fuel/Energy Charge	¢/kWh	32.2668	32.2668	129.07	129.07	0.00
Non-fuel Fuel Energy Charge						
First 250 kWhr per month	¢/kWh	9.1240	9.1240	22.81	22.81	0.00
Next 500 kWhr per month	¢/kWh	11.6240	11.6240	17.44	17.44	0.00
Customer Charge	\$	8.50	8.50	8.50	8.50	0.00
Total Base Charges				177.82	177.82	0.00
IRP Refund	% on base	0.0000	0.0000	0.00	0.00	0.00
Revenue Balancing Rate Adjustment	¢/kWh	1.5987	1.5987	6.39	6.39	0.00
PBF Surcharge	¢/kWh	0.4749	0.4749	1.90	1.90	0.00
Renewable Energy Infrastructure Cost						
Recovery Provision	¢/kWh	0.0099	0.0099	0.04	0.04	0.00
SolarSaver Adjustment	¢/kWh	0.0000	-0.1835	0.00	-0.73	-0.73
Energy Cost Adjustment	¢/kWh	-15.833	-15.204	-63.33	-60.82	2.51
Green Infrastructure Fee	\$	1.30	1.30	1.30	1.30	0.00
Avg Residential Bill at 400 kwh				124.12	125.90	

Increase (Decrease -)	1.78
% Change	1.43%

	Rate		Charge (\$) at 500 Kwh			
	03-01-16	04-01-16	03-01-16	04-01-16	Difference	
Base Rates	effective date:	08/01/13	08/01/13			
Base Fuel/Energy Charge	¢/kWh	32.2668	32.2668	161.33	161.33	0.00
Non-fuel Fuel Energy Charge						
First 250 kWhr per month	¢/kWh	9.1240	9.1240	22.81	22.81	0.00
Next 500 kWhr per month	¢/kWh	11.6240	11.6240	29.06	29.06	0.00
Customer Charge	\$	8.50	8.50	8.50	8.50	0.00
Total Base Charges				221.70	221.70	0.00
IRP Refund	% on base	0.0000	0.0000	0.00	0.00	0.00
Revenue Balancing Rate Adjustment	¢/kWh	1.5987	1.5987	7.99	7.99	0.00
PBF Surcharge	¢/kWh	0.4749	0.4749	2.37	2.37	0.00
Renewable Energy Infrastructure Cost						
Recovery Provision	¢/kWh	0.0099	0.0099	0.05	0.05	0.00
SolarSaver Adjustment	¢/kWh	0.0000	-0.1835	0.00	-0.92	-0.92
Energy Cost Adjustment	¢/kWh	-15.833	-15.204	-79.17	-76.02	3.15
Green Infrastructure Fee	\$	1.30	1.30	1.30	1.30	0.00
Avg Residential Bill at 500 kwh				154.24	156.47	

Increase (Decrease -)	2.23
% Change	1.45%

**MAUI ELECTRIC COMPANY, LTD. -- Lanai Division
FUEL OIL ADJUSTMENT FACTOR DATA**

<u>EFFECTIVE DATE</u>	FUEL FACTOR CENTS / KWH		RESIDENTIAL BILL (\$)
	<u>RESIDENTIAL & COMMERCIAL</u>	<u>@ 400 KWH</u>	<u>@ 500 KWH</u>
January 1, 2014	0.693	187.14	233.37
February 1, 2014	1.420	190.05	237.00
March 1, 2014	1.370	189.85	236.75
April 1, 2014	1.854	190.81	237.94
May 1, 2014	-1.036	180.23	224.72
June 1, 2014	0.013	187.69	234.05
July 1, 2014	0.208	189.21	235.94
August 1, 2014	-0.179	187.66	234.00
September 1, 2014	-0.244	187.40	233.68
October 1, 2014	-3.591	174.02	216.94
November 1, 2014	-1.766	181.32	226.07
December 1, 2014	-3.365	175.18	218.07
January 1, 2015	-4.698	169.85	211.41
February 1, 2015	-7.361	159.20	198.09
March 1, 2015	-8.793	153.47	190.93
April 1, 2015	-6.831	160.22	199.37
May 1, 2015	-9.750	149.64	186.15
June 8, 2015	-8.842	153.16	190.56
July 1, 2015	-7.314	158.27	196.91
August 1, 2015	-8.457	153.70	191.19
September 1, 2015	-10.465	145.71	181.20
October 1, 2015	-12.259	138.53	172.23
November 1, 2015	-12.177	138.86	172.64
December 1, 2015	-11.304	142.35	177.01
January 1, 2016	-12.957	135.62	168.62
February 1, 2016	-14.236	130.51	162.23
March 1, 2016	-15.833	124.12	154.24
April 1, 2016	-15.204	125.90	156.47

**MAUI ELECTRIC COMPANY, LTD. -- Lanai Division
RESIDENTIAL SURCHARGE DATA**

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
01/01/11 - 12/31/11	RESID. PBF SURCHARGE ADJUSTMENT	0.5944 CENTS/KWH
01/12/11 - 05/03/12	FINAL RATE INCREASE (3.65%), DOCKET NO. 2006-0387 (2007 TEST YEAR)	
01/12/11 - 05/03/12	INTERIM RATE INCREASE 2010 TEST YEAR	2.68 PERCENT ON BASE
02/01/11 - 02/28/11	IRP RECOVERY REFUND	-4.332 PERCENT ON BASE
03/01/11 - 04/30/11	IRP RECOVERY REFUND	0.000 PERCENT ON BASE
04/01/11 - 04/30/11	SOLARSAVER ADJUSTMENT	-0.0888 CENTS/KWH
05/01/11 - 03/31/12	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
05/01/11 - 05/31/11	IRP RECOVERY REFUND	-0.356 PERCENT ON BASE
06/01/11	IRP RECOVERY REFUND	0.000 PERCENT ON BASE
01/01/12 - 12/31/12	RESID. PBF SURCHARGE ADJUSTMENT	0.6766 CENTS/KWH
04/01/12 - 04/30/12	SOLARSAVER ADJUSTMENT	-0.2392 CENTS/KWH
05/01/12 - 03/31/13	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
5/4/2012 - 07/31/13	FINAL RATE INCREASE (1.51%), DOCKET NO. 2009-0163 (2010 TEST YEAR)	
6/1/2012 - 07/31/13	INTERIM RATE INCREASE 2012 TEST YEAR	4.02 PERCENT ON BASE
01/01/13 - 06/30/13	RESID. PBF SURCHARGE ADJUSTMENT	0.7850 CENTS/KWH
04/01/13 - 04/30/13	SOLARSAVER ADJUSTMENT	-0.2053 CENTS/KWH
05/01/13 - 03/31/14	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/13 - 05/31/14	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.8071 CENTS/KWH
07/01/13 - 06/30/14	RESID. PBF SURCHARGE ADJUSTMENT	0.8312 CENTS/KWH
08/01/13	FINAL RATE INCREASE (1.25%), DOCKET NO. 2011-0092 (2012 TEST YEAR)	
04/01/14 - 04/30/14	SOLARSAVER ADJUSTMENT	-0.2453 CENTS/KWH
05/01/14 - 03/31/15	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/14 - 05/31/15	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.6239 CENTS/KWH
07/01/14 - 11/30/14	RESID. PBF SURCHARGE ADJUSTMENT	1.0157 CENTS/KWH
12/01/14 - 06/30/15	RESID. PBF SURCHARGE ADJUSTMENT	0.7583 CENTS/KWH
12/01/14 - 06/30/15	GREEN INFRASTRUCTURE FEE	1.29 DOLLARS/MONTH
04/01/15 - 04/30/15	SOLARSAVER ADJUSTMENT	-0.2744 CENTS/KWH
05/01/15 - 03/31/16	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/15 - 06/07/15	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.0000 CENTS/KWH
06/08/15	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.5987 CENTS/KWH
07/01/15	RESID. PBF SURCHARGE ADJUSTMENT	0.4749 CENTS/KWH
07/01/15 - 12/31/15	GREEN INFRASTRUCTURE FEE	1.42 DOLLARS/MONTH
08/17/15 - 02/29/16	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0103 CENTS/KWH
01/01/16	GREEN INFRASTRUCTURE FEE	1.30 DOLLARS/MONTH
03/01/16	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0099 CENTS/KWH
04/01/16	SOLARSAVER ADJUSTMENT	-0.1835 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.