

# State of Hawaii



## Public Utilities Commission

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SHARON M. SUZUKI  
President

February 25, 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

Dear Commissioners:

Subject: Maui Electric Energy Cost Adjustment Factor for March 2016

Maui Electric Company, Limited's ("Maui Electric" or "Company") March 2016 energy cost adjustment factor for our Maui Division is -9.196 cents per kilowatt-hour ("kWh"), an increase of 1.315 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$139.17, an increase of \$6.59 compared to rates effective February 1, 2016. The increase in the typical residential bill is due to the increase in the energy cost adjustment factor (+\$6.58) and the increase in the Purchased Power Adjustment Clause rate (+\$0.01).

The Company's Maui Division fuel composite cost of generation, central station and other decreased 104.13 cents per million BTU to 876.34 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy decreased 1.010 cents per kWh to 18.818 cents per kWh.

The energy cost adjustment factor for our Lāna'i Division for March 2016 is -15.833 cents per kWh, a decrease of 1.597 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$124.12, a decrease of \$6.39 compared to rates effective February 1, 2016.

The Company's Lāna'i Division fuel composite cost of generation, central station and other decreased 148.10 cents per million BTU to 1,209.57 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 March 2016 is -12.649 cents per kWh, a decrease of 1.379 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$122.61, a decrease of \$5.52 compared to rates effective February 1, 2016.

The Company's Moloka'i Division fuel composite cost of generation, central station and other decreased 112.89 cents per million BTU to 1,117.88 cents per million BTU. The

The Honorable Chair and Members  
of the Hawai'i Public Utilities Commission  
February 25, 2016  
Page 2

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 March 1, 2016.

Sincerely,

*/s/ Sharon M. Suzuki*

Sharon M. Suzuki  
President

Attachments

cc: Division of Consumer Advocacy

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

**ENERGY COST ADJUSTMENT FACTOR**

	EFFECTIVE DATES		
	<u>02-01-16</u>	<u>03-01-16</u>	<u>Change</u>
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	1,230.77	1,117.88	(112.89)
DG Energy, ¢/kWh	0.00	0.00	0.00
Purchased Energy, ¢/kWh	21.80	21.80	0.00
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment, ¢/kWh	(11.270)	(12.649)	(1.379)
<u>Others - "G,P,F"</u>			
Energy Cost Adjustment, ¢/kWh	(11.270)	(12.649)	(1.379)
<u>Residential Customer with</u>			
400 KWH Consumption, \$/Bill	128.13	122.61	(5.52)
500 KWH Consumption, \$/Bill	159.35	152.45	(6.90)

Supersedes Sheet Effective:

February 1, 2016

**MAUI ELECTRIC COMPANY, LTD.  
MOLOKAI DIVISION  
ENERGY COST ADJUSTMENT (ECA) FILING**

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

Line

1 Effective Date March 1, 2016  
2 Supercedes Factors February 1, 2016

**GENERATION COMPONENT**

<b><u>CENTRAL STATION</u></b>							<b><u>DG ENERGY COMPONENT</u></b>	
FUEL PRICES, ¢/mmbtu								
3	Industrial			0.00				
4	Diesel			1,117.88				
5	Other			0.00				
BTU MIX, %								
6	Industrial			0.00	23	COMPOSITE COST OF DG		
7	Diesel			100.00		ENERGY, ¢/kWh	0.000	
8	Other			0.00	24	% Input to System kWh Mix	0.00	
				<u>100.00</u>				
9	COMPOSITE COST OF GENERATION, CENTRAL STATION + OTHER ¢/mmbtu (Lines (3 x 6) + (4 x 7) + (5 x 8))			1,117.88	25	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 23 x 24)	0.00000	
10	% Input to System kWh Mix			99.77	26	BASE DG ENERGY COMP COST	0.000	
EFFICIENCY FACTOR, mmbtu/kWh						27	Base % Input to System kWh Mix	0.00
	(A)	(B)	(C)	(D)	28	WEIGHTED BASE DG ENERGY COST, ¢/kWh (Line 26 x 27)	0.00000	
			Percent of					
			Centrl Stn +	Weighted	29	Cost Less Base (Line 25 - 28)	0.00000	
	Fuel Type	Eff Factor	Other	Eff Factor	30	Loss Factor	1.095	
11	Industrial	0.000000	0.00	0.000000	31	Revenue Tax Req Multiplier	1.0975	
12	Diesel	0.011194	100.00	0.011194	32	DG FACTOR, ¢/kWh (Line 29 x 30 x 31)	0.00000	
13	Other	0.011194	0.00	0.000000				
	(Lines 11, 12, 13): Col(B) x Col(C) = Col(D)							
14	Weighted Efficiency Factor, mmbtu/kWh [lines 11(D) + 12(D) + 13(D)]			0.011194				
15	WEIGHTED COMPOSITE CENTRAL STATION + OTHER GENERATION COST, ¢/kWh (lines (9 x 10 x 14))			12.48505				
16	BASE CENTRAL STATION + OTHER GENERATION COST, ¢/mmbtu			2,144.57				
17	Base % Input to Sys kWh Mix			99.91				
18	Efficiency Factor, mmbtu/kwh			0.011194				
19	WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST ¢/kWh (lines (16 x 17 x 18))			23.98471				
20	COST LESS BASE (line(15 - 19))			(11.49966)				
21	Revenue Tax Req Multiplier			1.0975				
22	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (20 x 21))			(12.62088)				
					<b>SUMMARY OF</b>			
					TOTAL GENERATION FACTOR, ¢/kWh			
					33	CNTRL STN + OTHER (line 22)	-12.62088	
					34	DG (line 32)	0.00000	
					35	TOTAL GENERATION FACTOR, ¢/kWh (lines 33 + 34)	-12.62088	

**MAUI ELECTRIC COMPANY, LTD.  
MOLOKAI DIVISION  
ENERGY COST ADJUSTMENT (ECA) FILING**

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

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

<u>Line</u>	<u>PURCHASED ENERGY COMPONENT</u>	
	PURCHASED ENERGY PRICE, ¢/kWh	
36	FIT	21.800
37		0.000
38	Sch Q	0.000
	PURCHASED ENERGY KWH MIX, %	
39	FIT	100.00
40		0.00
41	Sch Q	0.000
42	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh (Lines (36 x 39) + (37 x 40) + (38 x 41))	21.800
43	% Input to System kWh Mix	0.23
44	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (lines (42 x 43))	0.04965
45	BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh	21.800
46	Base % Input to Sys kWh Mix	0.09
47	WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (lines (45 x 46))	0.01962
48	COST LESS BASE (lines (44 - 47))	0.03003
49	Loss Factor	1.095
50	Revenue Tax Req Multiplier	1.0975
51	PURCHASED ENERGY FACTOR, ¢/kWh (lines (48 x 49 x 50))	0.03609

<u>Line</u>	<u>SYSTEM COMPOSITE CALCULATIONS</u>	
52	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (lines (35 + 51))	(12.58479)
53	Adjustment, ¢/kWh	0.000
54	ECA Reconciliation Adjustment	(0.064)
55	ECA FACTOR, ¢/kWh (lines (52 + 53 + 54))	(12.649)

**Maui Electric Company, Ltd.  
Molokai Division**

**MONTH END FUEL OIL ESTIMATE**

	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
2/22/2016	4,859.40	27,844.39	343,834.94
Estimated Use	1,173.19	6,722.38	82,736.88
Estimated Received	5,500.00	31,515.00	327,322.14
Estimated Additional	-	-	-
Estimated End	<u>9,186.21</u>	<u>52,637.01</u>	<u>588,420.20</u>

Next Months Expense = \$ 64.0547 /bbl

**FUEL OIL INVENTORY PRICE USED FOR FILING**

<u>Type of Oil Burned</u>	<u>Price</u>		<u>Prices ¢/MBTU</u>
Diesel	\$ 64.0547	5.73 BTU/BBL	1117.88

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

**Contract Prices effective February 1, 2016**

<u>TYPE OF OIL BURNED</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>
<b>ULTRA LOW SULFUR DIESEL</b>		
Tax *	1.8900	32.98
Ocean Transportation	2.0045	34.98
Storage	5.0579	88.27
Wharfage	0.2400	4.19

\* 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.**  
**Molokai Division**  
**ECA Reconciliation Adjustment**  
**March 2016**

1. Amount to be refunded	(\$4,000)
2. Monthly amount (1/3 x Line 1)	(\$1,333)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$1,463)
5. Estimated Sales (March 2016)	2,274 mwh
6. Adjustment (Line 4 ÷ Line 5)	-0.064 ¢/kwh

**MAUI ELECTRIC COMPANY, LTD.  
MOLOKAI 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					(1,433)	(1,450)	1,370
January '16					(1,433)	(1,417)	(47)
February	4,000	(4)	(55)	4,055	(1,333)		
March					(1,333)		

## NOTES:

- Col(1): Quarterly FOA reconciliation amounts. (Refer to Attachment 20)  
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.**  
**Molokai Division**  
**Calculations of the Average Residential Customer Bill**

	Rate		Charge (\$) at 400 Kwh		
	02-01-16	03-01-16	02-01-16	03-01-16	Difference
<b>Base Rates</b>					
effective date:	08/01/13	08/01/13			
Base Fuel/Energy Charge ¢/kWh	26.3468	26.3468	105.39	105.39	0.00
Non-fuel Fuel Energy Charge First 250 kWh per month ¢/kWh	11.4278	11.4278	28.57	28.57	0.00
Next 500 kWh per month ¢/kWh	14.0778	14.0778	21.12	21.12	0.00
Customer Charge \$	8.50	8.50	8.50	8.50	0.00
<b>Total Base Charges</b>			163.58	163.58	0.00
<b>IRP Refund</b>					
% on base	0.000	0.000	0.00	0.00	0.00
<b>Revenue Balancing Rate Adjustment</b> ¢/kWh	1.5987	1.5987	6.39	6.39	0.00
<b>PBF Surcharge</b> ¢/kWh	0.4749	0.4749	1.90	1.90	0.00
<b>Renewable Energy Infrastructure Cost Recovery Provision</b> ¢/kWh	0.0103	0.0099	0.04	0.04	0.00
<b>SolarSaver Adjustment</b> ¢/kWh	0.0000	0.0000	0.00	0.00	0.00
<b>Energy Cost Adjustment</b> ¢/kWh	-11.270	-12.649	-45.08	-50.60	-5.52
<b>Green Infrastructure Fee</b> \$	1.30	1.30	1.30	1.30	0.00
<b>Avg Residential Bill at 400 kwh</b>			128.13	122.61	

Increase (Decrease -)	-5.52
% Change	-4.31%

	Rate		Charge (\$) at 500 Kwh		
	02-01-16	03-01-16	02-01-16	03-01-16	Difference
<b>Base Rates</b>					
effective date:	08/01/13	08/01/13			
Base Fuel/Energy Charge ¢/kWh	26.3468	26.3468	131.73	131.73	0.00
Non-fuel Fuel Energy Charge First 250 kWh per month ¢/kWh	11.4278	11.4278	28.57	28.57	0.00
Next 500 kWh per month ¢/kWh	14.0778	14.0778	35.19	35.19	0.00
Customer Charge \$	8.50	8.50	8.50	8.50	0.00
<b>Total Base Charges</b>			203.99	203.99	0.00
<b>IRP Refund</b>					
% on base	0.000	0.000	0.00	0.00	0.00
<b>Revenue Balancing Rate Adjustment</b> ¢/kWh	1.5987	1.5987	7.99	7.99	0.00
<b>PBF Surcharge</b> ¢/kWh	0.4749	0.4749	2.37	2.37	0.00
<b>Renewable Energy Infrastructure Cost Recovery Provision</b> ¢/kWh	0.0103	0.0099	0.05	0.05	0.00
<b>SolarSaver Adjustment</b> ¢/kWh	0.0000	0.0000	0.00	0.00	0.00
<b>Energy Cost Adjustment</b> ¢/kWh	-11.270	-12.649	-56.35	-63.25	-6.90
<b>Green Infrastructure Fee</b> \$	1.30	1.30	1.30	1.30	0.00
<b>Avg Residential Bill at 500 kwh</b>			159.35	152.45	

Increase (Decrease -)	-6.90
% Change	-4.33%

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

<u>EFFECTIVE DATE</u>	<u>FUEL FACTOR CENTS / KWH RESIDENTIAL &amp; COMMERCIAL</u>	<u>RESIDENTIAL BILL (\$)</u>	
		<u>@ 400 KWH</u>	<u>@ 500 KWH</u>
January 1, 2014	3.885	185.67	231.62
February 1, 2014	4.590	188.49	235.14
March 1, 2014	4.652	188.74	235.45
April 1, 2014	4.585	187.49	233.89
May 1, 2014	4.690	188.89	235.64
June 1, 2014	4.779	192.52	240.17
July 1, 2014	5.145	194.72	242.92
August 1, 2014	4.697	192.93	240.68
September 1, 2014	-2.835	162.80	203.01
October 1, 2014	1.864	181.60	226.51
November 1, 2014	2.683	184.87	230.61
December 1, 2014	1.266	179.46	223.52
January 1, 2015	-0.141	173.84	216.48
February 1, 2015	-3.412	160.75	200.13
March 1, 2015	-6.056	150.18	186.91
April 1, 2015	-6.122	148.81	185.21
May 1, 2015	-6.727	147.49	183.55
June 8, 2015	-7.453	144.48	179.79
July 1, 2015	-6.185	148.55	184.84
August 1, 2015	-5.864	149.83	186.45
September 1, 2015	-5.935	149.59	186.14
October 1, 2015	-9.896	133.75	166.34
November 1, 2015	-10.149	132.73	165.07
December 1, 2015	-9.676	134.63	167.44
January 1, 2016	-9.942	133.44	165.99
February 1, 2016	-11.270	128.13	159.35
March 1, 2016	-12.649	122.61	152.45

**MAUI ELECTRIC COMPANY, LTD. -- Molokai 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 (3.66%), DOCKET NO. 2006-0387 (2007 TEST YEAR)	
01/12/11 - 05/03/12	INTERIM RATE INCREASE 2010 TEST YEAR	2.38 PERCENT ON BASE
02/01/11 - 02/28/11	IRP RECOVERY REFUND	-3.472 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	-0.204 PERCENT ON BASE
<b>06/01/11</b>	<b>IRP RECOVERY REFUND</b>	<b>0.000 PERCENT ON BASE</b>
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 - 7/31/13	FINAL RATE INCREASE (1.51%), DOCKET NO. 2009-0163 (2010 TEST YEAR)	
6/1/2012- 7/31/13	INTERIM RATE INCREASE 2012 TEST YEAR	4.11 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	-0.205 CENTS/KWH
05/01/13 - 03/31/14	SOLARSAVER ADJUSTMENT	0.000 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
<b>08/01/13</b>	<b>FINAL RATE INCREASE (1.25%), DOCKET NO. 2011-0092 (2012 TEST YEAR)</b>	
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
<b>05/01/15</b>	<b>SOLARSAVER ADJUSTMENT</b>	<b>0.0000 CENTS/KWH</b>
06/01/15 - 06/07/15	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.0000 CENTS/KWH
<b>06/08/15</b>	<b>REVENUE BALANCING ACCOUNT RATE ADJUSTMENT</b>	<b>1.5987 CENTS/KWH</b>
<b>07/01/15</b>	<b>RESID. PBF SURCHARGE ADJUSTMENT</b>	<b>0.4749 CENTS/KWH</b>
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
<b>01/01/16</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.30 DOLLARS/MONTH</b>
<b>03/01/16</b>	<b>RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION</b>	<b>0.0099 CENTS/KWH</b>

~ Surcharges currently in effect are in bold.

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