

# State of Hawaii



## Public Utilities Commission

### The Hawaii Public Utilities Commission Acknowledges Receipt of Your Submittal.

Form:	Hawaii PUC eFile Non-Docketed
Entity:	Maui Electric Company, Limited
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SHARON M. SUZUKI  
President

June 9, 2015

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 June 2015  
Revised Attachments Reflecting RBA Rate Adjustment

Enclosed for filing are revised Attachments 1, 7, 8A, 8B, 9, 10, 15, 16A, 16B, 17, 22, 23A, and 23B of Maui Electric Company, Limited's ("Maui Electric" or "Company") June 2015 energy cost adjustment factor filing, reflecting the impact of the Company's Revenue Balancing Account ("RBA") rate adjustment, as approved by the Commission.

On May 27, 2015, Maui Electric filed its energy cost adjustment factors for June 2015 and indicated that it would file the enclosed revised attachments after the Commission issued its decision on the Company's RBA rate adjustment proposal submitted in Transmittal No. 15-05 and incorporate the impact in the customer bill analysis. There is no change to the energy cost adjustment factors as filed on May 27, 2015.

For our Maui Division, a residential customer consuming 500 kWh of electricity will be paying \$163.43, an increase of \$6.37 compared to rates effective May 1, 2015. The increase in the typical Maui Division residential bill is due to the increase in the energy cost adjustment factor (+\$6.49), the increase in the Purchased Power Adjustment Clause rate (+\$0.01), and the decrease in the RBA rate adjustment (-\$0.13).

For our Lāna'i Division, a residential customer consuming 400 kWh of electricity will be paying \$153.16, an increase of \$3.52 compared to rates effective May 1, 2015. The increase in the typical Lāna'i Division residential bill is due to the increase in the energy cost adjustment factor (+\$3.63) and the decrease in the RBA rate adjustment (-\$0.11).

For our Moloka'i Division, a residential customer consuming 400 kWh of electricity will be paying \$144.48, a decrease of \$3.01 compared to rates effective May 1, 2015. The decrease in the typical Moloka'i Division residential bill is due to the decrease in the energy cost adjustment factor (-\$2.90) and the decrease in the RBA rate adjustment (-\$0.11).

The Honorable Chair and Members  
of the Hawai'i Public Utilities Commission  
June 9, 2015  
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For the Commission's convenience, Maui Electric is refiling all of the attachments included in the May 27, 2015 filing. The revised attachments are notated with "Revised 6/9/15" in the headers; the other attachments are unchanged.

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>Change</u>
	<u>05-01-15</u>	<u>06-08-15</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	1,601.11	1,542.07	(59.04)
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	(6.727)	(7.453)	(0.726)
<u>Others - "G,P,F"</u>			
Energy Cost Adjustment, ¢/kWh	(6.727)	(7.453)	(0.726)
<u>Residential Customer with</u>			
400 KWH Consumption, \$/Bill	147.49	144.48	(3.01)
500 KWH Consumption, \$/Bill	183.55	179.79	(3.76)

Supersedes Sheet Effective:

May 1, 2015

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

ENERGY COST ADJUSTMENT (ECA) FILING - June 1, 2015 (page 1 of 2)

<u>Line</u>		
1	Effective Date	June 1, 2015
2	Supercedes Factors	May 1, 2015

**GENERATION COMPONENT**

<u>CENTRAL STATION</u>							<u>DG ENERGY COMPONENT</u>	
FUEL PRICES, ¢/mmbtu								
3	Industrial			0.00				
4	Diesel			1,542.07				
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			<u>0.00</u>	24 % Input to System kWh Mix		0.00	
				<u>100.00</u>	25 WEIGHTED COMPOSITE DG ENERGY COST,			
9	COMPOSITE COST OF GENERATION, CENTRAL STATION + OTHER ¢/mmbtu (Lines (3 x 6) + (4 x 7) + (5 x 8))			1,542.07	¢/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								
	(A)	(B)	(C)	(D)	27 Base % Input to System kWh Mix		0.00	
			Percent of	Weighted	28 WEIGHTED BASE DG ENERGY COST,		0.00000	
	Fuel Type	Eff Factor	Centrl Stn +	Eff Factor	¢/kWh (Line 26 x 27)			
		mmbtu/kwh	Other		29 Cost Less Base (Line 25 - 28)		0.00000	
11	Industrial	0.000000	0.00	0.000000	30 Loss Factor		1.095	
12	Diesel	0.011194	100.00	0.011194	31 Revenue Tax Req Multiplier		1.0975	
13	Other	0.011194	0.00	0.000000	32 DG FACTOR,			
	(Lines 11, 12, 13): Col(B) x Col(C) = Col(D)				¢/kWh (Line 29 x 30 x 31)		0.00000	
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))			17.22269				
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))			(6.76202)				
21	Revenue Tax Req Multiplier			1.0975				
22	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (20 x 21))			(7.42132)				
					SUMMARY OF			
					TOTAL GENERATION FACTOR, ¢/kWh			
					33 CNTRL STN + OTHER (line 22)			-7.42132
					34 DG (line 32)			0.00000
					35 TOTAL GENERATION FACTOR,			
					¢/kWh (lines 33 + 34)			-7.42132

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

ENERGY COST ADJUSTMENT (ECA) FILING - June 1, 2015 (page 2 of 2)

<u>Line</u>		
1	Effective Date	June 1, 2015
2	Supercedes Factors	May 1, 2015

<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))	0.04956
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))	0.02994
49	Loss Factor	1.095
50	Revenue Tax Req Multiplier	1.0975
51	PURCHASED ENERGY FACTOR, ¢/kWh (lines (48 x 49 x 50))	0.03598

<u>Line</u>	<u>SYSTEM COMPOSITE CALCULATIONS</u>	
52	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (lines (35 + 51))	(7.38534)
53	Adjustment, ¢/kWh	0.000
54	ECA Reconciliation Adjustment	(0.068)
55	ECA FACTOR, ¢/kWh (lines (52 + 53 + 54))	(7.453)

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

**MONTH END FUEL OIL ESTIMATE**

	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
5/20/2015	3,948.973	22,627.61	366,606.08
Estimated Use	1,630.905	9,345.09	149,625.26
Estimated Received	5,500.00	31,515.00	473,827.54
Estimated Additional	-	-	-
Estimated End	<u>7,818.068</u>	<u>44,797.53</u>	<u>690,808.36</u>

Next Months Expense = \$ 88.3605 /bbl

June 2015

MBTU Forecast 25,533

**FUEL OIL INVENTORY PRICE USED FOR FILING**

<u>Type of Oil Burned</u>	<u>Price</u>		<u>Prices ¢/MBTU</u>
Diesel	\$ 88.3605	5.73 BTU/BBL	1542.07

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

**Contract Prices effective May 1, 2015**

<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	1.7573	30.67
Storage	5.0579	88.27
Wharfage	0.2300	4.01

\* 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**  
**June 2015**

1. Amount to be refunded	(\$4,200)
2. Monthly amount (1/3 x Line 1)	(\$1,400)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$1,537)
5. Estimated Sales (June 2015)	2,264 mwh
6. Adjustment (Line 4 ÷ Line 5)	-0.068 ¢/kwh

**MAUI ELECTRIC COMPANY, LTD.  
MOLOKAI DIVISION  
2015 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 '14					6,300	6,339	(6,413)
January '15					6,300	5,861	(552)
February	26,100	(4)	(105)	26,205	(8,700)	(9,018)	16,635
March					(8,700)	(8,772)	7,863
April					(8,700)	(8,968)	(1,105)
May	4,200	(1)	(829)	5,029	(1,400)		
June					(1,400)		

## 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		
	05-01-15	06-08-15	05-01-15	06-08-15	Difference
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	1.6239	1.5987	6.50	6.39	-0.11
<b>PBF Adjustment</b> ¢/kWh	0.7583	0.7583	3.03	3.03	0.00
<b>SolarSaver Adjustment</b> ¢/kWh	0.0000	0.0000	0.00	0.00	0.00
<b>Energy Cost Adjustment</b> ¢/kWh	-6.727	-7.453	-26.91	-29.81	-2.90
<b>Green Infrastructure Fee</b> \$	1.29	1.29	1.29	1.29	0.00
<b>Avg Residential Bill at 400 kwh</b>			147.49	144.48	
Increase (Decrease -)					-3.01
% Change					-2.04%

	Rate		Charge (\$) at 500 Kwh		
	05-01-15	06-08-15	05-01-15	06-08-15	Difference
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	1.6239	1.5987	8.12	7.99	-0.13
<b>PBF Adjustment</b> ¢/kWh	0.7583	0.7583	3.79	3.79	0.00
<b>SolarSaver Adjustment</b> ¢/kWh	0.0000	0.0000	0.00	0.00	0.00
<b>Energy Cost Adjustment</b> ¢/kWh	-6.727	-7.453	-33.64	-37.27	-3.63
<b>Green Infrastructure Fee</b> \$	1.29	1.29	1.29	1.29	0.00
<b>Avg Residential Bill at 500 kwh</b>			183.55	179.79	
Increase (Decrease -)					-3.76
% Change					-2.05%

**MAUI ELECTRIC COMPANY, LTD. -- Molokai Division  
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>@ 400 KWH</u>	<u>@ 500 KWH</u>
January 1, 2012	8.153	182.75	227.25
February 1, 2012	6.862	177.59	220.79
March 1, 2012	7.181	178.86	222.39
April 1, 2012	7.814	180.44	224.35
May 1, 2012	9.578	188.45	234.37
May 4, 2012	14.363	187.96	234.46
June 1, 2012	14.494	193.74	241.66
July 1, 2012	13.474	189.66	236.56
August 1, 2012	11.811	183.00	228.25
September 1, 2012	9.791	174.92	218.15
October 1, 2012	11.195	180.54	225.17
November 1, 2012	12.697	186.55	232.68
December 1, 2012	13.411	189.40	236.25
January 1, 2013	12.142	184.76	230.45
February 1, 2013	8.830	171.51	213.89
March 1, 2013	13.912	191.84	239.30
April 1, 2013	15.452	197.18	245.97
May 1, 2013	14.226	193.09	240.87
June 1, 2013	13.243	192.39	240.00
July 1, 2013	11.691	186.36	232.47
August 1, 2013	4.036	186.27	232.37
September 1, 2013	4.010	186.17	232.24
October 1, 2013	4.206	186.95	233.22
November 1, 2013	5.770	193.21	241.04
December 1, 2013	4.928	189.84	236.83
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

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

<u>EFFECTIVE DATE</u>	<u>DESCRIPTION OF SURCHARGE</u>	<u>RATE</u>
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
<b>12/01/14</b>	<b>RESID. PBF SURCHARGE ADJUSTMENT</b>	<b>0.7583 CENTS/KWH</b>
<b>12/01/14</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.29 DOLLARS/MONTH</b>
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>

~ Surcharges currently in effect are in bold.

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