



FILED

April 26, 2017

2017 APR 26 P 4: 08

PUBLIC UTILITIES  
COMMISSION

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

Dear Commissioners:

Subject: Maui Electric Energy Cost Adjustment Factor for May 2017

Maui Electric Company, Limited's ("Maui Electric" or "Company") May 2017 energy cost adjustment factor for our Maui Division is -7.998 cents per kilowatt-hour ("kWh"), a decrease of 2.228 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$144.79, a decrease of \$10.56 compared to rates effective April 1, 2017. The decrease in the typical residential bill is due to the decrease in the energy cost adjustment factor (-\$11.14) and the Purchased Power Adjustment Clause rate (-\$0.11), partly offset by the termination of the April 2017 credit for the SolarSaver Adjustment (+\$0.69).

The Company's Maui Division fuel composite cost of generation, central station and other decreased 111.20 cents per million BTU to 1,066.64 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy increased 0.884 cents per kWh to 20.127 cents per kWh.

The energy cost adjustment factor for our Lāna'i Division for May 2017 is -11.993 cents per kWh, a decrease of 1.118 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$139.14, a decrease of \$3.92 compared to rates effective April 1, 2017. The decrease in the typical residential bill is due to the decrease in the energy cost adjustment factor (-\$4.47), partly offset by the termination of the April 2017 credit for the SolarSaver Adjustment (+\$0.55).

The Company's Lāna'i Division fuel composite cost of generation, central station and other decreased 93.20 cents per million BTU to 1,606.82 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 May 2017 is -8.851 cents per kWh, a decrease of 0.419 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$137.47, a decrease of \$1.12 compared to rates effective April 1, 2017. The decrease in the typical residential bill is due to

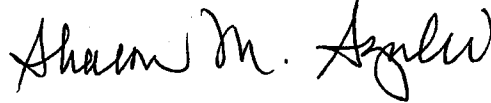
The Honorable Chair and Members  
of the Hawai'i Public Utilities Commission  
April 26, 2017  
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the decrease in the energy cost adjustment factor (-\$1.67), partly offset by the termination of the April 2017 credit for the SolarSaver Adjustment (+\$0.55).

The Company's Moloka'i Division fuel composite cost of generation, central station and other decreased 18.51 cents per million BTU to 1,417.57 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 May 1, 2017.

Sincerely,



Sharon M. Suzuki  
President

Attachments

cc: Division of Consumer Advocacy

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

**ENERGY COST ADJUSTMENT FACTOR**

	EFFECTIVE DATES		
	<u>04/01/2017</u>	<u>05/01/2017</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	1,177.84	1,066.64	(111.20)
DG Energy, ¢/kWh	0.00	0.00	0.000
Purchased Energy, ¢/kWh	19.243	20.127	0.884
 <u>Residential Schedule "R"</u>			
Energy Cost Adjustment, ¢/kWh	(5.770)	(7.998)	(2.228)
 <u>Others - "G,H,P,F"</u>			
Energy Cost Adjustment, ¢/kWh	(5.770)	(7.998)	(2.228)
 <u>Residential Customer with</u>			
500 KWH Consumption, \$/Bill	155.35	144.79	(10.56)
600 KWH Consumption, \$/Bill	186.05	173.38	(12.67)

Supersedes Sheet Effective:

April 1, 2017

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

ENERGY COST ADJUSTMENT (ECA) FILING - May 1, 2017 (page 1 of 2)

Line

1 Effective Date May 1, 2017  
2 Supercedes Factors of April 1, 2017

**GENERATION COMPONENT**

CENTRAL STATION							DG ENERGY COMPONENT	
FUEL PRICES, $\phi$ /mmbtu								
3	Industrial			691.14				
4	Diesel			1,202.51				
5	Other							
BTU MIX, %								
6	Industrial			26.57%	23	COMPOSITE COST OF DG		
7	Diesel			73.43%		ENERGY, $\phi$ /kWh	0.000	
8	Other			0.00%	24	% Input to System kWh Mix	0.00%	
				100.00%				
9	COMPOSITE COST OF GENERATION, CENTRAL STATION + OTHER $\phi$ /mmbtu (Lines (3 x 6) + (4 x 7) + (5 x 8))			1,066.64	25	WEIGHTED COMPOSITE DG ENERGY COST, $\phi$ /kWh (Lines 23 x 24)	-	
10	% Input to System kWh Mix			78.86%	26	BASE DG ENERGY COMP COST	0.000	
EFFICIENCY FACTOR, mmbtu/kWh						27	Base % Input to System kWh Mix	0.01
	(A)	(B)	(C)	(D)	28	WEIGHTED BASE DG ENERGY COST, $\phi$ /kWh (Line 26 x 27)	0.00000	
			Percent of	Weighted	29	Cost Less Base (Line 25 - 28)	0.00000	
	Fuel Type	Eff Factor	Centrl Stn +	Eff Factor	30	Loss Factor	1.063	
		mmbtu/kWh	Other		31	Revenue Tax Req Multiplier	1.0975	
11	Industrial	0.015126	18.61	0.002815	32	DG FACTOR, $\phi$ /kWh (Line 29 x 30 x 31)	0.00000	
12	Diesel	0.010026	81.39	0.008160				
13	Other	0.010951	0.00	-				
	(Lines 11, 12, 13): Col(B) x Col(C) = Col(D)							
14	Weighted Efficiency Factor, mmbtu/kWh [(lines 11(D) + 12(D) + 13(D))]			0.010975				
15	WEIGHTED COMPOSITE CENTRAL STATION + OTHER GENERATION COST, $\phi$ /kWh (lines (9 x 10 x 14))			9.23165				
16	BASE CENTRAL STATION + OTHER GENERATION COST, $\phi$ /mmbtu			2,019.39				
17	Base % Input to Sys kWh Mix			78.09				
18	Efficiency Factor, mmbtu/kWh			0.010951				
19	WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST $\phi$ /kWh (lines (16 x 17 x 18))			17.26909				
20	COST LESS BASE (line(15 - 19))			(8.03744)	SUMMARY OF			
21	Revenue Tax Req Multiplier			1.0975	TOTAL GENERATION FACTOR, $\phi$ /kWh			
22	CENTRAL STATION + OTHER GENERATION FACTOR, $\phi$ /kWh (line (20 x 21))			(8.82109)	33	CNTRL STN + OTHER (line 22)	(8.82109)	
					34	DG (line 32)	-	
					35	TOTAL GENERATION FACTOR, $\phi$ /kWh (lines 33 + 34)	(8.82109)	

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

ENERGY COST ADJUSTMENT (ECA) FILING - May 1, 2017 (page 2 of 2)

Line

1 Effective Date May 1, 2017  
2 Supercedes Factors of April 1, 2017

<u>Line</u> <b>PURCHASED ENERGY COMPONENT</b>		
PURCHASED ENERGY PRICE, ¢/kWh		
36		
37		
38		
39		
40	Kaheawa Wind I            - On Peak	13.572
41	- Off Peak	12.749
42	Kaheawa Wind II	24.931
43	Sempra Wind	21.546
44	Hydro & Other                - On Peak	11.205
45	- Off Peak	10.496
46	FIT	20.397
PURCHASED ENERGY KWH MIX, %		
47		
48		
49		
50		
51	Kaheawa Wind I            - On Peak	14.84%
52	- Off Peak	10.07%
53	Kaheawa Wind II	22.37%
54	Sempra Wind	47.22%
55	Hydro & Other                - On Peak	0.27%
56	- Off Peak	0.19%
57	FIT	5.04%
		<u>100.00%</u>
58	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh	20.127
	(Lines (36 x 49) + (37 x 50) + (38 x 51) + (39 x 52) + (40 x 53) + (41 x 54) + (42 x 55) + (43 x 54) + (44 x 55) + (45 x 56) + (46 x 57))	
59	% Input to System kWh Mix	21.14%
60	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (lines (58 x 59))	4.25485
61	BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh	15.847
62	Base % Input to Sys kWh Mix	21.90
63	WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (lines (61 x 62))	3.47049
64	COST LESS BASE (lines (60 - 63))	0.78436
65	Loss Factor	1.063
66	Revenue Tax Req Multiplier	1.0975
67	PURCHASED ENERGY FACTOR, ¢/kWh (lines (64 x 65 x 66))	0.91507

Line                      SYSTEM COMPOSITE CALCULATIONS

68 GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (7.90602)  
    (lines (35 + 67))  
69 ADJUSTMENT, ¢/kWh  
70 ECA Reconciliation Adjustment (0.092)  
71 ECA FACTOR, ¢/kWh (7.998)  
    (lines (68 + 69 + 70))

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

**Fuel Oil Inventory Prices for May 2017**

<u>TYPE OF OIL BURNED</u>	<u>PRICES \$/BBL</u>	<u>CONVERSION FACTORS</u>		<u>PRICES ¢/MBTU</u>
INDUSTRIAL	43.5419	6.30	MBTU/BBL	691.14
DIESEL/ULSD	70.4041	5.85	MBTU/BBL	1,202.51

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

**Month End Fuel Oil Estimate**

<u><b>Kahului</b></u>	<u>Barrels</u>	<u>MBTU</u>	<u>(\$)</u>
4/18/2017	36,819.91	231,518.64	1,626,897.26
Estimated Use	9,536.55	60,036.26	472,948.30
Estimated Received	17,000.00	107,100.00	774,234.58
Estimated Additional	0.00	0.00	0.00
Estimated End	<u>44,283.36</u>	<u>278,582.38</u>	<u>1,928,183.54</u>

**Next month's expense (\$/bbl) = \$ 43.5419**

<u><b>Maalaea</b></u>	<u>Barrels</u>	<u>MBTU</u>	<u>(\$)</u>
4/18/2017	113,450.08	664,224.91	8,284,787.88
Estimated Use	39,327.07	230,251.24	3,097,203.66
Estimated Received	32,200.00	188,523.81	2,297,994.04
Estimated Additional	0.00	0.00	0.00
Estimated End	<u>106,323.01</u>	<u>622,497.48</u>	<u>7,485,578.26</u>

**Next month's expense (\$/bbl) = \$ 70.4041**

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

**Contract Prices effective April 1, 2017**

<u>TYPE OF OIL BURNED</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>
<b>INDUSTRIAL</b>		
Tax *	3.0935	49.10
Ocean Transportation	1.6964	26.93
Land Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.2900	4.60
<b>DIESEL</b>		
Tax *	4.7361	80.82
Ocean Transportation	1.6964	28.95
Land Transportation	0.8817	15.05
Storage	3.0104	51.37
Wharfage	0.2900	4.95

\* Tax includes HGET, Hawaii Use Tax, Liquid Fuel Tax, LUST tax, Environmental Response Tax, Customs Duty Fee, and Fed Oil Spill Recovery Fee

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.  
MAUI DIVISION**

**PURCHASED POWER PRICE CALCULATIONS**

KAHEAWA WIND POWER ENERGY RATE:

Kaheawa Wind - On Peak, ¢/kWh	13.572
- Off Peak, ¢/kWh	12.749

Kaheawa Wind Energy Rate Calculations:

Percent of Energy Payment Rate:

Fixed energy payment rate	70%
Flat payment rate	<u>30%</u>
	<u>100%</u>

Fixed Energy Payment Rate (Table D-1) for 2017:

On-peak, ¢/kwh	9.960
Off-peak, ¢/kwh	8.784

Flat Payment Rate Per Docket No. 2011-0192 D&O 30331:

On-peak, ¢/kwh	22.000
Off-peak, ¢/kwh	22.000

On-Peak Rate =  $9.960 \text{ ¢/kwh} \times 0.7 + 22.000 \text{ ¢/kwh} \times 0.3 = 13.572 \text{ ¢/kwh}$

Off-Peak Rate =  $8.784 \text{ ¢/kwh} \times 0.7 + 22.000 \text{ ¢/kwh} \times 0.3 = 12.7488 \text{ ¢/kwh}$

**MAUI ELECTRIC COMPANY, LTD.**  
**Maui Division**  
**ECA Reconciliation Adjustment**  
**May 2017**

1. Amount to be Refunded	(\$214,700)
2. Monthly amount (1 / 3 X Line 1)	(\$71,567)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$78,546)
5. Estimated Sales (May 2017)	85,473 mwh
6. Adjustment (Line 4 ÷ Line 5)	(0.092) ¢/kwh

**MAUI ELECTRIC COMPANY, LTD.**  
**MAUI DIVISION**  
**2017 FUEL OIL ADJUSTMENT RECONCILIATION SUMMARY**  
**(Thousand \$)**

<u>Line</u>	W/O Deadband 1st Quarter <u>YTD Total</u>	collection by company*	Basis for Recon With Deadband 1st Quarter <u>YTD Total</u>	collection by company*
ACTUAL COSTS:				
1	Generation	\$26,698.1	\$26,698.1	
2	Distributed Generation	\$4.1	\$4.1	
3	Purch Power	<u>\$8,277.4</u>	<u>\$8,277.4</u>	
4	TOTAL	\$34,979.6	\$34,979.6	
FUEL FILING COST				
5	Generation	\$26,858.5	\$26,668.3	
6	Distributed Generation	\$0.0	\$0.0	
7	Purch Power	<u>\$8,277.4</u>	<u>\$8,277.4</u>	
8	TOTAL	\$35,135.9	\$34,945.7	
BASE FUEL COST				
9	Generation	\$43,069.4	\$43,069.4	
10	Distributed Generation	\$3.8	\$3.8	
11	Purch Power	<u>\$8,445.0</u>	<u>\$8,445.0</u>	
12	TOTAL	\$51,518.3	\$51,518.3	
13	FUEL-BASE COST (Line 8-12)	-\$16,382.4	-\$16,572.5	
14	ACTUAL FOA LESS TAX	-\$17,409.9	-\$17,409.9	
15	FOA reconciliation adj for prior year	<u>-\$1,052.1</u>	<u>-\$1,052.1</u>	
16	ADJUSTED FOA LESS TAX	-\$16,357.8	-\$16,357.8	
17	FOA-(FUEL-BASE) (Line 16-13)	\$24.6 Over	\$214.7 Over	
ADJUSTMENTS				
18	Current year FOA accrual reversal	\$0.0	\$0.0	
19	Other prior year FOA	\$0.0	\$0.0	
20	Other	<u>\$0.0</u>	<u>\$0.0</u>	
21	1st QUARTER FOA RECONCILIATION (Lines 17+18+19+20)	\$24.6 Over	\$214.7 Over	
22	2016 YTD FOA Reconciliation Recognized in FOA Rates		<u>\$0.0</u>	
23	FOA Reconciliation to be Refunded May 2017 to July 2017 (Line 22- 21)		<u><u>-\$214.7</u></u>	To Be Refunded

\* Over means an over-collection by the company.  
Under means an under-collection by the company.

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

Determination of Efficiency Factor to use for Cost-Recovery Purposes

Period: January 1, 2017 through March 31, 2017

	<u>Notes</u>	<u>Jan 1 - Mar 31</u>
<b><u>Industrial Fuel Oil</u></b>		
Industrial Fuel Oil Efficiency Factor (TY2012), BTU/kWh	f	15,126
Industrial Fuel Oil Deadband Definition, +/- BTU/kWh	d	<b>100</b>
Industrial Fuel Oil Portion of Recorded Sales, MWh	a	38,267
Industrial Fuel Oil Consumption (Recorded), MMBTU	b	597,924
Industrial Fuel Oil Efficiency Factor (Recorded), BTU/kWh	c = (b/a)*1000	15,625
Lower limit of Industrial Fuel Oil Deadband, BTU/kWh	e = f-d	15,026
Higher limit of Industrial Fuel Oil Deadband, BTU/kWh	g = f+d	15,226
Industrial Fuel Oil Efficiency Factor for cost-recovery, BTU/kWh	h = c, e, or g	<b>15,226</b>
<b><u>Diesel</u></b>		
Diesel Efficiency Factor (TY2012), BTU/kWh	f	10,026
Diesel Deadband Definition, +/- BTU/kWh	d	<b>100</b>
Diesel Portion of Recorded Sales, MWh	a	167,235
Diesel Consumption (Recorded), MMBTU	b	1,652,886
Diesel Efficiency Factor (Recorded), BTU/kWh	c = (b/a)*1000	9,884
Lower limit of Diesel Deadband, BTU/kWh	e = f-d	9,926
Higher limit of Diesel Deadband, BTU/kWh	g = f+d	10,126
Diesel Efficiency Factor for cost-recovery, BTU/kWh	h = c, e, or g	<b>9,926</b>

**MAUI ELECTRIC COMPANY, LTD.**  
**MAUI DIVISION**  
**GENERATION FUEL FILING COST AND GENERATION BASE FUEL COST, WITHOUT and WITH DEADBAND**  
**2017**

	<u>Without Deadband</u> <u>Jan 1 - Mar 31</u>	<u>With Deadband - AS FILED</u> <u>Jan 1 - Mar 31</u>
<b><u>INDUSTRIAL</u></b>		
Industrial Portion of Recorded Sales , MWH	38,267	38,267
Industrial Sales Efficiency Factor (mmbtu/kwh)	0.015126	0.015226
Mmbtu adjusted for Sales Efficiency Factor	578,821	582,648
\$/mmbtu	<u>\$8,0940</u>	<u>\$8,0940</u>
TOTAL Industrial \$000s TO BE RECOVERED	\$4,685.0	\$4,715.9
<b><u>DIESEL FUEL FILING COST</u></b>		
Diesel Portion of Recorded Sales, MWH	167,235	167,235
Diesel Sales Efficiency Factor (mmbtu/kwh)	0.010026	0.009926
Mmbtu adjusted for Sales Efficiency Factor	1,676,700	1,659,977
\$/mmbtu	<u>\$13,2245</u>	<u>\$13,2245</u>
TOTAL DIESEL \$000s TO BE RECOVERED	\$22,173.5	\$21,952.4
TOTAL GENERATION FUEL FILING COST, \$000s	\$26,858.5	\$26,668.3
TOTAL GENERATION BASE FUEL COST , \$000s YTD	\$43,069.4	\$43,069.4
TOTAL GENERATION FUEL FILING COST, \$000s YTD	\$26,858.5	\$26,668.3
TOTAL GENERATION BASE FUEL COST, \$000s YTD	\$43,069.4	\$43,069.4

**MAUI ELECTRIC COMPANY, LTD.  
MAUI DIVISION  
2017 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 '16					(340,033)	(338,730)	359,058
January '17					(340,033)	(313,303)	45,755
February	1,068,200	(4)	19,017	1,049,183	(356,067)	(333,496)	761,442
March					(356,067)	(353,056)	408,386
April					(356,067)		
May	214,700	(1)	52,312	162,388	(71,567)		

## NOTES:

- Col(1): Quarterly FOA reconciliation amounts. (Refer to Attachment 5)  
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.  
Maui Division  
Calculations of the Average Residential Customer Bill**

	Rate		Charge (\$) at 500 Kwh			
	04/01/17	05/01/17	04/01/17	05/01/17	Difference	
<b>Base Rates</b>	effective date:	08/01/13	08/01/13			
Base Fuel/Energy Charge	¢/kWh	23.0016	23.0016	115.01	115.01	0.00
Non-fuel Fuel Energy Charge						
First 350 kWh per month	¢/kWh	9.3393	9.3393	32.69	32.69	0.00
Next 850 kWh per month	¢/kWh	11.5993	11.5993	17.40	17.40	0.00
Customer Charge	\$	8.50	8.50	8.50	8.50	0.00
<b>Total Base Charges</b>				173.60	173.60	0.00
<b>RBA Rate Adjustment</b>	¢/kWh	1.4082	1.4082	7.04	7.04	0.00
<b>PBF Surcharge</b>	¢/kWh	0.5865	0.5865	2.93	2.93	0.00
<b>Renewable Energy Infrastructure Cost Recovery Provision</b>	¢/kWh	0.0098	0.0098	0.05	0.05	0.00
<b>SolarSaver Adjustment</b>	¢/kWh	-0.1378	0.0000	-0.69	0.00	0.69
<b>Purchased Power Adjustment</b>	¢/kWh	0.0000	-0.0224	0.00	-0.11	-0.11
<b>Energy Cost Adjustment</b>	¢/kWh	-5.770	-7.998	-28.85	-39.99	-11.14
<b>Green Infrastructure Fee</b>	\$	1.27	1.27	1.27	1.27	0.00
<b>Avg Residential Bill at 500 kwh</b>				155.35	144.79	

Increase (Decrease -)	-10.56
% Change	-6.80%

	Rate		Charge (\$) at 600 Kwh			
	04/01/17	05/01/17	04/01/17	05/01/17	Difference	
<b>Base Rates</b>	effective date:	08/01/13	08/01/13			
Base Fuel/Energy Charge	¢/kWh	23.0016	23.0016	138.01	138.01	0.00
Non-fuel Fuel Energy Charge						
First 350 kWh per month	¢/kWh	9.3393	9.3393	32.69	32.69	0.00
Next 850 kWh per month	¢/kWh	11.5993	11.5993	29.00	29.00	0.00
Customer Charge	\$	8.50	8.50	8.50	8.50	0.00
<b>Total Base Charges</b>				208.20	208.20	0.00
<b>RBA Rate Adjustment</b>	¢/kWh	1.4082	1.4082	8.45	8.45	0.00
<b>PBF Surcharge</b>	¢/kWh	0.5865	0.5865	3.52	3.52	0.00
<b>Renewable Energy Infrastructure Cost Recovery Provision</b>	¢/kWh	0.0098	0.0098	0.06	0.06	0.00
<b>SolarSaver Adjustment</b>	¢/kWh	-0.1378	0.0000	-0.83	0.00	0.83
<b>Purchased Power Adjustment</b>	¢/kWh	0.0000	-0.0224	0.00	-0.13	-0.13
<b>Energy Cost Adjustment</b>	¢/kWh	-5.770	-7.998	-34.62	-47.99	-13.37
<b>Green Infrastructure Fee</b>	\$	1.27	1.27	1.27	1.27	0.00
<b>Avg Residential Bill at 600 kwh</b>				186.05	173.38	

Increase (Decrease -)	-12.67
% Change	-6.81%

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

<u>EFFECTIVE DATE</u>	FUEL FACTOR CENTS / KWH <u>RESIDENTIAL &amp; COMMERCIAL</u>	RESIDENTIAL BILL (\$) <u>@ 500 KWH @ 600 KWH</u>	
January 1, 2015	-0.702	183.85	220.24
February 1, 2015	-4.255	165.96	198.78
March 1, 2015	-7.740	148.62	177.96
April 1, 2015	-6.921	151.30	181.18
May 1, 2015	-6.092	157.06	188.10
June 8, 2015	-4.794	163.43	195.74
July 1, 2015	-4.336	164.44	196.93
August 1, 2015	-4.415	164.11	196.54
September 1, 2015	-5.820	157.12	188.14
October 1, 2015	-7.471	148.88	178.26
November 1, 2015	-8.651	141.57	169.49
December 1, 2015	-8.557	142.07	170.10
January 1, 2016	-8.649	141.54	169.48
February 1, 2016	-10.511	132.58	158.73
March 1, 2016	-9.196	139.17	166.62
April 1, 2016	-8.768	140.37	168.08
May 1, 2016	-10.483	132.89	159.10
June 1, 2016	-8.170	143.47	171.79
July 1, 2016	-7.334	148.08	177.36
August 1, 2016	-6.973	149.89	179.52
September 1, 2016	-7.866	145.42	174.16
October 1, 2016	-8.162	143.94	172.39
November 1, 2016	-9.782	135.84	162.67
December 1, 2016	-9.069	139.41	166.95
January 1, 2017	-7.659	146.59	175.55
February 1, 2017	-8.247	143.65	172.02
March 1, 2017	-7.314	148.32	177.61
April 1, 2017	-5.770	155.35	186.05
May 1, 2017	-7.998	144.79	173.38



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

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
<b>06/01/11</b>	<b>IRP RECOVERY REFUND</b>	<b>0.000 PERCENT ON BASE</b>
<b>08/01/13</b>	<b>FINAL RATE INCREASE (1.25%), DOCKET NO. 2011-0092 (2012 TEST YEAR)</b>	
01/01/15 - 01/31/15	PURCHASED POWER ADJUSTMENT	0.1117 CENTS/KWH
02/01/15 - 02/28/15	PURCHASED POWER ADJUSTMENT	0.0875 CENTS/KWH
03/01/15 - 03/31/15	PURCHASED POWER ADJUSTMENT	0.1036 CENTS/KWH
04/01/15 - 04/30/15	PURCHASED POWER ADJUSTMENT	0.0963 CENTS/KWH
04/01/15 - 04/30/15	SOLARSAVER ADJUSTMENT	-0.2744 CENTS/KWH
05/01/15 - 05/31/15	PURCHASED POWER ADJUSTMENT	0.1444 CENTS/KWH
05/01/15 - 03/31/16	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/15 - 06/30/15	PURCHASED POWER ADJUSTMENT	0.1453 CENTS/KWH
06/01/15 - 06/07/15	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.0000 CENTS/KWH
06/08/15 - 05/31/16	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.5987 CENTS/KWH
07/01/15 - 07/31/15	PURCHASED POWER ADJUSTMENT	0.1482 CENTS/KWH
07/01/15 - 06/30/16	RESID. PBF SURCHARGE ADJUSTMENT	0.4749 CENTS/KWH
07/01/15 - 12/31/15	GREEN INFRASTRUCTURE FEE	1.42 DOLLARS/MONTH
08/01/15 - 08/31/15	PURCHASED POWER ADJUSTMENT	0.1613 CENTS/KWH
08/17/15 - 02/29/16	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0103 CENTS/KWH
09/01/15 - 09/30/15	PURCHASED POWER ADJUSTMENT	0.1573 CENTS/KWH
10/01/15 - 10/31/15	PURCHASED POWER ADJUSTMENT	0.1612 CENTS/KWH
11/01/15 - 11/30/15	PURCHASED POWER ADJUSTMENT	-0.1207 CENTS/KWH
12/01/15 - 12/31/15	PURCHASED POWER ADJUSTMENT	-0.1139 CENTS/KWH
01/01/16 - 01/31/16	PURCHASED POWER ADJUSTMENT	-0.1055 CENTS/KWH
01/01/16 - 06/30/16	GREEN INFRASTRUCTURE FEE	1.30 DOLLARS/MONTH
02/01/16 - 02/29/16	PURCHASED POWER ADJUSTMENT	-0.0338 CENTS/KWH
03/01/16 - 03/31/16	PURCHASED POWER ADJUSTMENT	-0.0325 CENTS/KWH
03/01/16 - 02/28/17	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0099 CENTS/KWH
04/01/16 - 04/30/16	PURCHASED POWER ADJUSTMENT	-0.0355 CENTS/KWH
04/01/16 - 04/30/16	SOLARSAVER ADJUSTMENT	-0.1835 CENTS/KWH
05/01/16 - 03/31/17	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
05/01/16 - 05/31/16	PURCHASED POWER ADJUSTMENT	0.0000 CENTS/KWH
06/01/16 - 06/30/16	PURCHASED POWER ADJUSTMENT	-0.0081 CENTS/KWH
<b>06/01/16</b>	<b>REVENUE BALANCING ACCOUNT RATE ADJUSTMENT</b>	<b>1.4082 CENTS/KWH</b>
07/01/16 - 04/30/17	PURCHASED POWER ADJUSTMENT	0.0000 CENTS/KWH
07/01/16 - 12/31/16	GREEN INFRASTRUCTURE FEE	1.13 DOLLARS/MONTH
<b>07/01/16</b>	<b>RESID. PBF SURCHARGE ADJUSTMENT</b>	<b>0.5865 CENTS/KWH</b>
<b>01/01/17</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.27 DOLLARS/MONTH</b>
<b>03/01/17</b>	<b>RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION</b>	<b>0.0098 CENTS/KWH</b>
04/01/17 - 04/30/17	SOLARSAVER ADJUSTMENT	-0.1378 CENTS/KWH
<b>05/01/17</b>	<b>SOLARSAVER ADJUSTMENT</b>	<b>0.0000 CENTS/KWH</b>
<b>05/01/17</b>	<b>PURCHASED POWER ADJUSTMENT</b>	<b>-0.0224 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.

**Maui Electric Company, Ltd. - Maui Division  
Residential Bill at 500 kWh/Month Consumption**

