



July 27, 2018

FILED

2018 JUL 27 P 3:39

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 August 2018

Maui Electric Company, Limited's ("Maui Electric" or "Company") August 2018 Energy Cost Adjustment factor for our Maui Division is -3.848 cents per kilowatt-hour ("kWh"), a decrease of 2.589 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$167.07, a decrease of \$13.25 compared to rates effective July 1, 2018. The decrease in the typical residential bill is due to the decrease in the Energy Cost Adjustment factor (-\$12.94) and the decrease in the Purchase Power Adjustment Clause rate (-\$0.31) factor .

The Company's Maui Division fuel composite cost of generation, central station and other decreased 258.48 cents per million BTU to 1,516.06 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy increased 0.052 cents per kWh to 19.311 cents per kWh.

The Energy Cost Adjustment factor for our Lāna'i Division for August 2018 is -7.005 cents per kWh, a decrease of 1.252 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$160.45, a decrease of \$5.01 compared to rates effective July 1, 2018. The decrease in the typical residential bill is due to the decrease in the Energy Cost Adjustment factor.

The Company's Lāna'i Division fuel composite cost of generation, central station and other decreased 124.85 cents per million BTU to 2,052.59 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy is 30.00 cents per kWh.

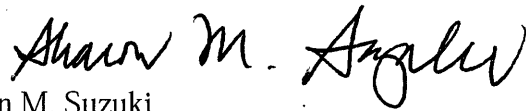
The Energy Cost Adjustment factor for our Moloka'i Division for August 2018 is -4.992 cents per kWh, a decrease of 3.638 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$154.26, a decrease of \$14.55 compared to rates effective July 1, 2018. The decrease in the typical residential bill is due to the decrease in the Energy Cost Adjustment factor.

The Honorable Chair and Members  
of the Hawai'i Public Utilities Commission  
July 27, 2018  
Page 2

The Company's Moloka'i Division fuel composite cost of generation, central station and other decreased 282.41 cents per million BTU to 1,756.99 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 August 1, 2018.

Sincerely,



Sharon M. Suzuki  
President

Attachments

cc: Division of Consumer Advocacy

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

**ENERGY COST ADJUSTMENT FACTOR**

	EFFECTIVE DATES		<u>Change</u>
	<u>07/01/2018</u>	<u>08/01/2018</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	1,774.54	1,516.06	(258.48)
DG Energy, ¢/kWh	0.00	0.00	0.000
Purchased Energy, ¢/kWh	19.259	19.311	0.052
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment, ¢/kWh	(1.259)	(3.848)	(2.589)
<u>Others - "G,H,P,F"</u>			
Energy Cost Adjustment, ¢/kWh	(1.259)	(3.848)	(2.589)
<u>Residential Customer with</u>			
500 KWH Consumption, \$/Bill	180.32	167.07	(13.25)
600 KWH Consumption, \$/Bill	216.01	200.11	(15.90)

Supersedes Sheet Effective:

July 1, 2018

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

ENERGY COST ADJUSTMENT (ECA) FILING - August 1, 2018 (page 1 of 2)

Line

1 Effective Date August 1, 2018  
2 Supercedes Factors of July 1, 2018

**GENERATION COMPONENT**

<b><u>CENTRAL STATION</u></b>					<b><u>DG ENERGY COMPONENT</u></b>		
FUEL PRICES, ¢/mmbtu							
3	Industrial			1,111.26			
4	Diesel			1,677.73			
5	Other						
BTU MIX, %							
6	Industrial			28.54%	23	COMPOSITE COST OF DG	
7	Diesel			71.46%		ENERGY, ¢/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 ¢/mmbtu (Lines (3 x 6) + (4 x 7) + (5 x 8))			1,516.06	25	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 23 x 24)	-
10	% Input to System kWh Mix			61.41%	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, ¢/kWh (Line 26 x 27)	0.00000
		Eff Factor	Percent of	Weighted	29	Cost Less Base (Line 25 - 28)	0.00000
	<u>Fuel Type</u>	<u>mmbtu/kwh</u>	Centrl Stn +	<u>Eff Factor</u>	30	Loss Factor	1.063
11	Industrial	0.015126	Other	0.002057	31	Revenue Tax Req Multiplier	1.0975
12	Diesel	0.010026	13.60	0.008662	32	DG FACTOR, ¢/kWh (Line 29 x 30 x 31)	0.00000
13	Other	0.010951	86.40	-			
			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))]			0.010719			
15	WEIGHTED COMPOSITE CENTRAL STATION + OTHER GENERATION COST, ¢/kWh (lines (9 x 10 x 14))			9.97952			
16	BASE CENTRAL STATION + OTHER GENERATION COST, ¢/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 ¢/kWh (lines (16 x 17 x 18))			17.26909			
20	COST LESS BASE (line(15 - 19))			(7.28957)			
21	Revenue Tax Req Multiplier			1.0975			
22	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (20 x 21))			(8.00030)			
					SUMMARY OF		
					TOTAL GENERATION FACTOR, ¢/kWh		
					33	CNTRL STN + OTHER (line 22)	(8.00030)
					34	DG (line 32)	-
					35	TOTAL GENERATION FACTOR, ¢/kWh (lines 33 + 34)	(8.00030)

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

ENERGY COST ADJUSTMENT (ECA) FILING - August 1, 2018 (page 2 of 2)

<u>Line</u>		
1	Effective Date	August 1, 2018
2	Supercedes Factors of	July 1, 2018

<u>Line</u>	<u>PURCHASED ENERGY COMPONENT</u>	
	PURCHASED ENERGY PRICE, ¢/kWh	
36	Kaheawa Wind I - On Peak	13.676
37	- Off Peak	12.841
38	Kaheawa Wind II	25.304
39	Sempra Wind	21.869
40	Hydro & Other - On Peak	15.951
41	- Off Peak	15.129
42	South Maui RR	11.060
43	Ku'ia Solar	11.060
44		
45		
46	FIT	21.458
	PURCHASED ENERGY KWH MIX, %	
47	Kaheawa Wind I - On Peak	20.35%
48	- Off Peak	16.70%
49	Kaheawa Wind II	27.71%
50	Sempra Wind - On Peak	29.31%
51	Hydro & Other - On Peak	0.20%
52	- Off Peak	0.14%
53	South Maui RR	1.42%
54	Ku'ia Solar	1.38%
55		
56		
57	FIT	2.79%
		<u>100.00%</u>
58	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh	19.311
	(Lines (36 x 47) + (37 x 48) + (38 x 49) + (39 x 50) + (40 x 51) + (41 x 52) + (42 x 53) + (43 x 54) + (46 x 57))	
59	% Input to System kWh Mix	38.59%
60	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (lines (58 x 59))	7.45211
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))	3.98162
65	Loss Factor	1.063
66	Revenue Tax Req Multiplier	1.0975
67	PURCHASED ENERGY FACTOR, ¢/kWh (lines (64 x 65 x 66))	4.64513

<u>Line</u>	<u>SYSTEM COMPOSITE CALCULATIONS</u>	
68	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (lines (35 + 67))	(3.35517)
69	ADJUSTMENT, ¢/kWh	
70	ECA Reconciliation Adjustment	(0.493)
71	ECA FACTOR, ¢/kWh (lines (68 + 69 + 70))	(3.848)

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

**Fuel Oil Inventory Prices for August 2018**

<u>TYPE OF OIL BURNED</u>	<u>PRICES \$/BBL</u>	<u>CONVERSION FACTORS</u>		<u>PRICES ¢/MBTU</u>
INDUSTRIAL	70.0095	6.30	MBTU/BBL	1,111.26
DIESEL/ULSD	98.2635	5.86	MBTU/BBL	1,677.73

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

**Month End Fuel Oil Estimate**

<u><b>Kahului</b></u>	<u>Barrels</u>	<u>MBTU</u>	<u>(\$)</u>
7/20/2018	50,420.59	317,649.72	3,511,410.86
Estimated Use	9,928.39	62,548.89	687,961.17
Estimated Received	18,000.00	113,400.00	1,271,559.26
Estimated Additional	0.00	0.00	0.00
Estimated End	<u>58,492.20</u>	<u>368,500.83</u>	<u>4,095,008.95</u>

**Next month's expense (\$/bbl) = \$ 70.0095**

<u><b>Maalaea</b></u>	<u>Barrels</u>	<u>MBTU</u>	<u>(\$)</u>
7/20/2018	92,268.66	540,410.93	9,369,090.15
Estimated Use	31,997.47	187,406.91	3,599,821.26
Estimated Received	62,290.71	364,832.23	6,274,087.36
Estimated Additional	0.00	0.00	0.00
Estimated End	<u>122,561.90</u>	<u>717,836.25</u>	<u>12,043,356.25</u>

**Next month's expense (\$/bbl) = \$ 98.2635**

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

**Contract Prices effective July 1, 2018**

<u>TYPE OF OIL BURNED</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>
<b>INDUSTRIAL</b>		
Tax *	4.2215	67.01
Ocean Transportation	1.6594	26.34
Land Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.3900	6.19
<b>DIESEL</b>		
Tax *	5.8733	100.23
Ocean Transportation	1.6594	28.32
Land Transportation	0.9255	15.79
Storage	2.8489	48.62
Wharfage	0.3900	6.66

\* 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	13.676
- Off Peak, ¢/kWh	12.841

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 2018:

On-peak,	10.109
Off-peak, ¢/kwh	8.916

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

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

On-Peak Rate =  $10.1090 \times 0.7 + 22.000 \times 0.3 = 13.676$

Off-Peak Rate =  $8.916 \text{ ¢/kwh} \times 0.7 + 22.000 \text{ ¢/kwh} \times 0.3 = 12.841 \text{ ¢/kwh}$

**MAUI ELECTRIC COMPANY, LTD.**  
**Maui Division**  
**ECA Reconciliation Adjustment**  
**August 2018**

1. Amount to be Refunded	(\$1,159,100)
2. Monthly amount (1 / 3 X Line 1)	(\$386,367)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$424,043)
5. Estimated Sales (August 2018)	85,996 mwh
6. Adjustment (Line 4 ÷ Line 5)	(0.493) ¢/kwh

**MAUI ELECTRIC COMPANY, LTD.  
MAUI DIVISION  
2018 FUEL OIL ADJUSTMENT RECONCILIATION SUMMARY  
(Thousand \$)**

<u>Line</u>	<u>W/O Deadband 2nd Quarter YTD Total</u>	<u>collection by company*</u>	<u>Basis for Recon With Deadband 2nd Quarter YTD Total</u>	<u>collection by company*</u>
ACTUAL COSTS:				
1	\$60,484.4		\$60,484.4	
2	\$2.3		\$2.3	
3	<u>\$22,878.0</u>		<u>\$22,878.0</u>	
4	\$83,364.7		\$83,364.7	
FUEL FILING COST				
5	\$60,724.4		\$60,397.4	
6	\$0.0		\$0.0	
7	<u>\$22,878.0</u>		<u>\$22,878.0</u>	
8	\$83,602.4		\$83,275.4	
BASE FUEL COST				
9	\$80,403.8		\$80,403.8	
10	\$2.2		\$2.2	
11	<u>\$24,100.6</u>		<u>\$24,100.6</u>	
12	\$104,506.6		\$104,506.6	
13	-\$20,904.2		-\$21,231.2	
14	-\$21,307.0		-\$21,307.0	
15	<u>-\$1,318.3</u>		<u>-\$1,318.3</u>	
16	-\$19,988.7		-\$19,988.7	
17	\$915.5	Over	\$1,242.5	Over
ADJUSTMENTS				
18	\$166.8		\$166.8	
19	\$0.0		\$0.0	
20	<u>\$0.0</u>		<u>\$0.0</u>	
21	\$1,082.3	Over	\$1,409.3	Over
22			<u>\$250.2</u>	Over
23			<u><u>-\$1,159.1</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, 2018 through June 30, 2018

	<u>Notes</u>	<u>Jan 1 - Jun 30</u>
<b><u>Industrial Fuel Oil</u></b>		
Industrial Fuel Oil Efficiency Factor (TY2012), BTU/kWh	f	15,128
Industrial Fuel Oil Deadband Definition, +/- BTU/kWh	d	<b>100</b>
Industrial Fuel Oil Portion of Recorded Sales, MWh	a	73,128
Industrial Fuel Oil Consumption (Recorded), MMBTU	b	1,119,613
Industrial Fuel Oil Efficiency Factor (Recorded), BTU/kWh	c = (b/a)*1000	15,310
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	310,511
Diesel Consumption (Recorded), MMBTU	b	3,088,573
Diesel Efficiency Factor (Recorded), BTU/kWh	c = (b/a)*1000	9,947
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>9,947</b>

**MAUI ELECTRIC COMPANY, LTD.  
MAUI DIVISION  
GENERATION FUEL FILING COST AND GENERATION BASE FUEL COST, WITHOUT and WITH DEADBAND  
2018**

	<u>Without Deadband</u> <u>Jan 1 - Jun 30</u>	<u>With Deadband - AS FILED</u> <u>Jan 1 - Jun 30</u>
<b><u>INDUSTRIAL</u></b>		
Industrial Portion of Recorded Sales , MWH	73,128	73,128
Industrial Sales Efficiency Factor (mmbtu/kwh)	0.015126	0.015226
Mmbtu adjusted for Sales Efficiency Factor	1,106,138	1,113,450
\$/mmbtu	<u>\$9.4504</u>	<u>\$9.4504</u>
TOTAL Industrial \$000s TO BE RECOVERED	\$10,453.5	\$10,522.6
<b><u>DIESEL FUEL FILING COST</u></b>		
Diesel Portion of Recorded Sales, MWH	310,511	310,511
Diesel Sales Efficiency Factor (mmbtu/kwh)	0.010026	0.009947
Mmbtu adjusted for Sales Efficiency Factor	3,113,182	3,088,652
\$/mmbtu	<u>\$16.1478</u>	<u>\$16.1478</u>
TOTAL DIESEL \$000s TO BE RECOVERED	\$50,271.0	\$49,874.8
TOTAL GENERATION FUEL FILING COST, \$000s	\$60,724.4	\$60,397.4
TOTAL GENERATION BASE FUEL COST , \$000s YTD	\$80,403.8	\$80,403.8
TOTAL GENERATION FUEL FILING COST, \$000s YTD	\$60,724.4	\$60,397.4
TOTAL GENERATION BASE FUEL COST, \$000s YTD	\$80,403.8	\$80,403.8

**MAUI ELECTRIC COMPANY, LTD.  
MAUI DIVISION  
2018 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 '17					(323,167)	(288,628)	393,068
January '18					(323,167)	(330,544)	62,524
February	994,600	(4)	69,895	924,705	(331,533)	(332,923)	654,306
March					(331,533)	(333,329)	320,977
April					(331,533)	(365,577)	(44,600)
May	250,155	(1)	(10,563)	260,718	(83,385)	(85,797)	130,321
June					(83,385)	(87,681)	42,640
July					(83,385)		
August	1,159,100	(2)	(40,752)	1,199,852	(386,367)		

## 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			
	07/01/18	08/01/18	07/01/18	08/01/18	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 kWhr per month	¢/kWh	9.3393	9.3393	32.69	32.69	0.00
Next 850 kWhr 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	1.8954	1.8954	9.48	9.48	0.00
<b>PBF Surcharge</b>	¢/kWh	0.4658	0.4658	2.33	2.33	0.00
<b>Renewable Energy Infrastructure Cost</b>						
Recovery Provision	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
<b>SolarSaver Adjustment</b>	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
<b>Purchased Power Adjustment</b>	¢/kWh	0.0003	-0.0618	0.00	-0.31	-0.31
<b>Energy Cost Adjustment</b>	¢/kWh	-1.259	-3.848	-6.30	-19.24	-12.94
<b>Green Infrastructure Fee</b>	\$	1.21	1.21	1.21	1.21	0.00
<b>Avg Residential Bill at 500 kwh</b>				180.32	167.07	

Increase (Decrease -)	-13.25
% Change	-7.35%

	Rate		Charge (\$) at 600 Kwh			
	07/01/18	08/01/18	07/01/18	08/01/18	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 kWhr per month	¢/kWh	9.3393	9.3393	32.69	32.69	0.00
Next 850 kWhr 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	1.8954	1.8954	11.37	11.37	0.00
<b>PBF Surcharge</b>	¢/kWh	0.4658	0.4658	2.79	2.79	0.00
<b>Renewable Energy Infrastructure Cost</b>						
Recovery Provision	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
<b>SolarSaver Adjustment</b>	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
<b>Purchased Power Adjustment</b>	¢/kWh	0.0003	-0.0618	0.00	-0.37	-0.37
<b>Energy Cost Adjustment</b>	¢/kWh	-1.259	-3.848	-7.56	-23.09	-15.53
<b>Green Infrastructure Fee</b>	\$	1.21	1.21	1.21	1.21	0.00
<b>Avg Residential Bill at 600 kwh</b>				216.01	200.11	

Increase (Decrease -)	-15.90
% Change	-7.36%

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

<u>EFFECTIVE DATE</u>	<u>FUEL FACTOR CENTS / KWH</u>		<u>RESIDENTIAL BILL (\$)</u>	
	<u>RESIDENTIAL &amp; COMMERCIAL</u>		<u>@ 500 KWH</u>	<u>@ 600 KWH</u>
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
June 1, 2017	-5.191		159.61	191.16
July 1, 2017	-5.635		157.32	188.42
August 1, 2017	-7.867		145.30	174.01
September 1, 2017	-9.278		138.19	165.47
October 1, 2017	-7.391		147.64	176.80
November 1, 2017	-5.305		158.18	189.46
December 1, 2017	-7.839		145.51	174.26
January 1, 2018	-6.115		154.28	184.75
February 1, 2018	-5.747		156.16	187.00
March 1, 2018	-4.402		162.88	195.07
April 1, 2018	-4.914		159.68	191.23
May 1, 2018	-4.510		162.34	194.42
June 1, 2018	-2.402		174.53	209.05
July 1, 2018	-1.259		180.32	216.01
August 1, 2018	-3.848		167.07	200.11



**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>
04/01/13 - 04/30/13	SOLARSAVER ADJUSTMENT	-0.2053 CENTS/KWH
<b>08/01/13</b>	<b>FINAL RATE INCREASE (1.25%), DOCKET NO. 2011-0092 (2012 TEST YEAR</b>	
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
06/01/16 - 05/31/17	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.4082 CENTS/KWH
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
07/01/16 - 06/30/17	RESID. PBF SURCHARGE ADJUSTMENT	0.5865 CENTS/KWH
01/01/17 - 06/30/17	GREEN INFRASTRUCTURE FEE	1.27 DOLLARS/MONTH
03/01/17 -08/16/17	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0098 CENTS/KWH
04/01/17 - 04/30/17	SOLARSAVER ADJUSTMENT	-0.1378 CENTS/KWH
05/01/17 - 3/31/18	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
05/01/17 - 05/31/17	PURCHASED POWER ADJUSTMENT	-0.0224 CENTS/KWH
06/01/17 - 06/30/17	PURCHASED POWER ADJUSTMENT	-0.0218 CENTS/KWH
6/1/2017 - 05/31/18	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.5654 CENTS/KWH
07/01/17 - 12/31/17	GREEN INFRASTRUCTURE FEE	1.18 DOLLARS/MONTH
07/01/17 - 07/31/17	PURCHASED POWER ADJUSTMENT	-0.0202 CENTS/KWH
07/01/17 - 06/30/18	RESID. PBF SURCHARGE ADJUSTMENT	0.4244 CENTS/KWH
08/01/17 - 08/31/17	PURCHASED POWER ADJUSTMENT	-0.0286 CENTS/KWH
<b>08/17/17</b>	<b>RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION</b>	<b>0.0000 CENTS/KWH</b>
09/01/17 - 09/30/17	PURCHASED POWER ADJUSTMENT	-0.0307 CENTS/KWH
10/01/17 - 10/31/17	PURCHASED POWER ADJUSTMENT	-0.0275 CENTS/KWH
11/01/17 - 11/30/17	PURCHASED POWER ADJUSTMENT	-0.0058 CENTS/KWH
12/01/17 - 12/31/17	PURCHASED POWER ADJUSTMENT	-0.0054 CENTS/KWH
01/01/18 - 01/31/18	PURCHASED POWER ADJUSTMENT	-0.0060 CENTS/KWH
01/01/18 - 06/30/18	GREEN INFRASTRUCTURE FEE	1.3400 DOLLARS/MONTH
02/01/18 - 04/30/18	PURCHASED POWER ADJUSTMENT	0.0003 CENTS/KWH
04/01/18 - 04/30/18	SOLARSAVER ADJUSTMENT	-0.1278 CENTS/KWH
<b>05/01/18</b>	<b>SOLARSAVER ADJUSTMENT</b>	<b>0.0000 CENTS/KWH</b>
05/01/18 - 06/30/18	PURCHASED POWER ADJUSTMENT	0.0004 CENTS/KWH
<b>6/1/2018</b>	<b>REVENUE BALANCING ACCOUNT RATE ADJUSTMENT</b>	<b>1.8954 CENTS/KWH</b>
07/01/18 - 07/31/18	PURCHASED POWER ADJUSTMENT	0.0003 CENTS/KWH
<b>07/01/18</b>	<b>RESID. PBF SURCHARGE ADJUSTMENT</b>	<b>0.4658 CENTS/KWH</b>
<b>07/01/18</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.21 DOLLARS/MONTH</b>
<b>08/01/18</b>	<b>PURCHASED POWER ADJUSTMENT</b>	<b>-0.0618 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**

