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January 29, 2019

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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

PUBLIC UTILITIES
COMMISSION

Dear Commissioners:

Subject: Maui Electric Energy Cost Adjustment Factor for February 2019

Maui Electric Company, Limited's ("Maui Electric" or "Company") February 2019 Energy Cost Adjustment factor for our Maui Division is -5.987 cents per kilowatt-hour ("kWh"), a decrease of 2.582 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$161.69, a decrease of \$13.08 compared to rates effective January 1, 2019. The decrease in the typical residential bill is due to the decrease in the Energy Cost Adjustment factor (-\$12.91) and Purchase Power Adjustment (-\$0.17).

The Company's Maui Division fuel composite cost of generation, central station and other decreased 243.25 cents per million BTU to 1,351.67 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy decreased 0.483 cents per kWh to 19.264 cents per kWh.

The Energy Cost Adjustment factor for our Lāna'i Division for February 2019 is -8.789 cents per kWh, a decrease of 1.839 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$158.45, a decrease of \$7.36 compared to rates effective January 1, 2019. 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 190.60 cents per million BTU to 1,872.13 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 February 2019 is -7.208 cents per kWh, a decrease of 3.437 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$150.16, a decrease of \$13.75 compared to rates effective January 1, 2019. The decrease in the typical residential bill is due to the decrease in the Energy Cost Adjustment factor.

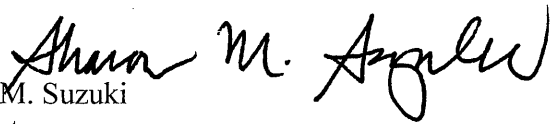
The Honorable Chair and Members
of the Hawai'i Public Utilities Commission
January 29, 2019
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The Company's Moloka'i Division fuel composite cost of generation, central station and other decreased 303.92 cents per million BTU to 1,545.41 cents per million 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 February 1, 2019.

Sincerely,

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>01-01-19</u>	<u>02-01-19</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	2,062.73	1,872.13	(190.60)
DG Energy, ¢/kWh	0.00	0.00	0.00
Purchased Energy, ¢/kWh	30.00	30.00	0.00
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment, ¢/kWh	(6.950)	(8.789)	(1.839)
<u>Others - "G.P.F"</u>			
Energy Cost Adjustment, ¢/kWh	(6.950)	(8.789)	(1.839)
<u>Residential Customer with</u>			
400 KWH Consumption, \$/Bill	165.81	158.45	(7.36)
500 KWH Consumption, \$/Bill	206.32	197.12	(9.20)

Supersedes Sheet Effective:

January 1, 2019

MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION

ENERGY COST ADJUSTMENT (ECA) FILING

ENERGY COST ADJUSTMENT (ECA) FILING - February 1, 2019 (page 1 of 2)

Line

1 Effective Date February 1, 2019
2 Supercedes Factors of January 1, 2019

GENERATION COMPONENT

<u>CENTRAL STATION</u>							<u>DG ENERGY COMPONENT</u>	
FUEL PRICES, ¢/mmbtu								
3	Industrial			0.00				
4	Diesel - Miki Basin			1,882.78				
5	Diesel - Manele Bay			1,754.96				
6	Other			0.00				
BTU MIX, %								
7	Industrial			0.00%	25	COMPOSITE COST OF DG		
8	Diesel - Miki Basin			91.67%		ENERGY, ¢/kWh	0.000	
9	Diesel - Manele Bay			8.33%	26	% Input to System kWh Mix	0.00%	
10	Other			0.00%	27	WEIGHTED COMPOSITE DG ENERGY		
				100.00%		COST, ¢/kWh (Lines 25 x 26)	0.00000	
11	COMPOSITE COST OF GENERATION, CENTRAL STATION + OTHER ¢/mmbtu (Lines (3 x 7) + (4 x 8) + (5 x 9) + (6 x 10))			1,872.13	28	BASE DG ENERGY COMP COST	0.000	
12	% Input to System kWh Mix			94.02%	29	Base % Input to System kWh Mix	0.00%	
EFFICIENCY FACTOR, mmbtu/kWh					30	WEIGHTED BASE DG ENERGY COST, ¢/kWh (Line 28 x 29)	0.00000	
	(A)	(B)	(C)	(D)	31	Cost Less Base (Line 27 - 30)	0.00000	
			Percent of		32	Loss Factor	1.0510	
			Centrl Stn +	Weighted	33	Revenue Tax Req Multiplier	1.0975	
	Fuel Type	Eff Factor	Other	Eff Factor	34	DG FACTOR, ¢/kWh (Line 31 x 32 x 33)	0.00000	
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))			19.62773				
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))			(6.83549)				
23	Revenue Tax Req Multiplier			1.0975				
24	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (22 x 23))			-7.50195				
					SUMMARY OF			
					TOTAL GENERATION FACTOR, ¢/kWh			
					35	CNTRL STN + OTHER (line 24)	(7.50195)	
					36	DG (line 34)	-	
					37	TOTAL GENERATION FACTOR, ¢/kWh (lines 35 + 36)	(7.50195)	

MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION

ENERGY COST ADJUSTMENT (ECA) FILING

ENERGY COST ADJUSTMENT (ECA) FILING - February 1, 2019 (page 2 of 2)

Line

1 Effective Date February 1, 2019
2 Supercedes Factors of January 1, 2019

<u>Line</u>	<u>PURCHASED ENERGY COMPONENT</u>	
	PURCHASED ENERGY PRICE, ¢/kWh	
38	LANAI SOLAR RESEARCH - On Peak	30.000
39	- Off Peak	30.000
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))	30.000
45	% Input to System kWh Mix	5.98%
46	WEIGHTED COMP. PURCH. ENERGY COST, ¢/kWh (lines (44 x 45))	1.79400
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))	(1.00050)
51	Loss Factor	1.051
52	Revenue Tax Req Multiplier	1.0975
53	PURCHASED ENERGY FACTOR, ¢/kWh (lines (50 x 51 x 52))	(1.15405)

Line SYSTEM COMPOSITE CALCULATIONS

54 GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (8.65600)
(lines (37 + 53))
55 Adjustment, ¢/kWh 0.000
56 ECA Reconciliation Adjustment (0.133)
57 ECA FACTOR, ¢/kWh (8.789)
(lines (54 + 55 + 56))

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

MONTH END FUEL OIL ESTIMATE

<u>Miki Basin - ULSD</u>	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
1/18/2019	4,470.71	25,617.17	504,168.22
Estimated Use	1,456.60	8,346.32	171,591.95
Estimated Received	1,785.71	10,232.12	185,242.95
Estimated Additional	-	-	-
Estimated End	4,799.82	27,502.97	517,819.22

Next Month's Combined Miki Expense (\$/bbl) = \$ 107.8830 /bbl

<u>Manele CHP</u>	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
1/18/2019	187.12	1,072.20	20,197.80
Estimated Use	420.10	2,407.17	51,263.64
Estimated Received	452.38	2,592.14	50,386.90
Estimated Additional	229.46	1,314.83	25,816.42
Estimated End	448.86	2,572.00	45,137.49

Next Month's Manele Expense (\$/bbl) = \$ 100.5593 /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	\$ 107.8830	5.73 BTU/BBL	1,882.78
Diesel - Manele Bay	\$ 100.5593	5.73 BTU/BBL	1,754.96

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

Contract Prices effective January 1, 2019

<u>TYPE OF OIL BURNED</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>
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MIKI BASIN - ULTRA LOW SULFUR DIESEL (DYED)

Tax *	1.6020	27.96
Ocean Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.0000	0.00

MIKI BASIN - ULTRA LOW SULFUR DIESEL

Tax *	16.1985	282.70
Ocean Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.0000	0.00

MANELE BAY - ULTRA LOW SULFUR DIESEL

Tax *	16.1985	282.70
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, Environmental Response Tax, Customs Duty Fee, Fed Oil Spill Recovery Fee, Federal Oil Spill Liability Tax, and Federal Excise 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

February 2019

1. Amount to be refunded	(\$8,600)
2. Monthly amount (1 / 3 X Line 1)	(\$2,867)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$3,147)
5. Estimated Sales (February 2019)	2,371 mwh
6. Adjustment (Line 4 ÷ Line 5)	-0.133 ¢/kwh

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

<u>Line</u>	Without Deadband 4th Quarter <u>YTD Total</u>	collection by <u>company*</u>	Basis for Recon With Deadband 4th Quarter <u>YTD Total</u>	collection by <u>company*</u>
ACTUAL COSTS:				
1	Generation	\$6,292.5	\$6,292.5	
2	Distributed Generation	\$0.0	\$0.0	
3	Purch Power	<u>\$402.9</u>	<u>\$402.9</u>	
4	TOTAL	\$6,695.4	\$6,695.4	
FUEL FILING COST				
5	Generation	\$6,361.7	\$6,350.4	
6	Distributed Generation	\$0.0	\$0.0	
7	Purch Power	<u>\$402.9</u>	<u>\$402.9</u>	
8	TOTAL	\$6,764.6	\$6,753.3	
BASE FUEL COST				
9	Generation	\$8,228.4	\$8,228.4	
10	Distributed Generation	\$0.0	\$0.0	
11	Purch Power	<u>\$375.0</u>	<u>\$375.0</u>	
12	TOTAL	\$8,603.4	\$8,603.4	
13	FUEL-BASE COST (Line 8-12)	-\$1,838.9	-\$1,850.1	
14	ACTUAL FOA LESS TAX	-\$1,890.6	-\$1,890.6	
15	FOA reconciliation adj for prior year	<u>-\$61.2</u>	<u>-\$61.2</u>	
16	ADJUSTED FOA LESS TAX	-\$1,829.4	-\$1,829.4	
17	FOA-(FUEL-BASE) (Line 16-13)	\$9.5 Over	\$20.7 Over	
ADJUSTMENTS				
18	Current year FOA accrual reversal	\$98.2	\$98.2	
19	Other prior year FOA	\$0.0	\$0.0	
20	Other	<u>\$0.0</u>	<u>\$0.0</u>	
21	4th QUARTER FOA RECONCILIATION (Lines 17+18+19+20)	\$107.7 Over	\$118.9 Over	
22	3rd QUARTERLY YTD 2018 FOA Reconciliation Recognized in FOA Rates		<u>\$110.3 Over</u>	
23	FOA Reconciliation to be Refunded February 2019 to April 2019 (Line 22- 21)		<u><u>-\$8.6 Refunded</u></u>	

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

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

Determination of Efficiency Factor to use for Cost-Recovery Purposes

Period: January 1, 2018 through August 22, 2018

	<u>Notes</u>	<u>YTD</u>
<u>Diesel</u>		
Diesel Efficiency Factor (TY2012), BTU/kWh	f	11,151
Diesel Deadband Definition, +/- BTU/kWh	d	50
Diesel Portion of Recorded Sales, MWh	a	18,022
Diesel Consumption (Recorded), MMBTU	b	197,224
Diesel Efficiency Factor (Recorded), BTU/kWh	c = (b/a)*1000	10,943
Lower limit of Diesel Deadband, BTU/kWh	e = f-d	11,101
Higher limit of Diesel Deadband, BTU/kWh	g = f+d	11,201
Diesel Efficiency Factor for cost-recovery, BTU/kWh	h = c, e, or g	11,101

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

Determination of Efficiency Factor to use for Cost-Recovery Purposes

Period: August 23, 2018 through December 31, 2018

	<u>Notes</u>	<u>YTD</u>
<u>Diesel</u>		
Diesel Efficiency Factor (TY2018), BTU/kWh	f	11,017
Diesel Deadband Definition, +/- BTU/kWh	d	50
Diesel Portion of Recorded Sales, MWh	a	9,965
Diesel Consumption (Recorded), MMBTU	b	110,102
Diesel Efficiency Factor (Recorded), BTU/kWh	c = (b/a)*1000	11,049
Lower limit of Diesel Deadband, BTU/kWh	e = f-d	10,967
Higher limit of Diesel Deadband, BTU/kWh	g = f+d	11,067
Diesel Efficiency Factor for cost-recovery, BTU/kWh	h = c, e, or g	11,049

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

	Without Deadband <u>Jan 1 - Aug 22</u>	With Deadband AS FILED <u>Jan 1 - Aug 22</u>	Without Deadband <u>Aug 23 - Dec 31</u>	With Deadband AS FILED <u>Aug 23 - Dec 31</u>
Diesel Portion of Recorded Sales, MWH	18,022	18,022	9,965	9,965
Diesel Sales Efficiency Factor (mmbtu/kwh)	0.011151	0.011101	0.011017	0.011049
Mmbtu adjusted for Sales Efficiency Factor	200,968	200,067	109,786	110,105
\$/mmbtu	<u>\$20.0493</u>	<u>\$20.0493</u>	<u>\$21.2451</u>	<u>\$21.2451</u>
TOTAL DIESEL \$000s TO BE RECOVERED	\$4,029.3	\$4,011.2	\$2,332.4	\$2,339.2
TOTAL GENERATION FUEL FILING COST, \$000s	\$4,029.3	\$4,011.2	\$2,332.4	\$2,339.2
TOTAL GENERATION BASE FUEL COST , \$000s YTD	\$5,298.6	\$5,298.6	\$2,929.8	\$2,929.8
TOTAL GENERATION FUEL FILING COST, \$000s YTD	\$4,029.3	\$4,011.2	\$2,332.4	\$2,339.2
TOTAL GENERATION BASE FUEL COST, \$000s YTD	\$5,298.6	\$5,298.6	\$2,929.8	\$2,929.8

**MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION
2019 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 '18					(11,867)	(11,797)	11,475
January '19					(11,867)		
February	8,600	(4)	(386)	8,986	(2,867)		

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			
	01-01-19	02-01-19	01-01-19	02-01-19	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	0.3183	0.3183	1.27	1.27	0.00
PBF Surcharge	¢/kWh	0.4658	0.4658	1.86	1.86	0.00
Renewable Energy Infrastructure Cost Recovery Provision	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
SolarSaver Adjustment	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
Interim Rate Increase (Test Year 2018)	% on Base	6.36	6.36	11.31	11.31	0.00
Energy Cost Adjustment	¢/kWh	-6.950	-8.789	-27.80	-35.16	-7.36
Green Infrastructure Fee	\$	1.35	1.35	1.35	1.35	0.00
Avg Residential Bill at 400 kwh				165.81	158.45	
				Increase (Decrease -)		-7.36
				% Change		-4.44%

	Rate		Charge (\$) at 500 Kwh			
	01-01-19	02-01-19	01-01-19	02-01-19	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	0.3183	0.3183	1.59	1.59	0.00
PBF Surcharge	¢/kWh	0.4658	0.4658	2.33	2.33	0.00
Renewable Energy Infrastructure Cost Recovery Provision	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
SolarSaver Adjustment	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
Interim Rate Increase (Test Year 2018)	% on Base	6.36	6.36	14.10	14.10	0.00
Energy Cost Adjustment	¢/kWh	-6.950	-8.789	-34.75	-43.95	-9.20
Green Infrastructure Fee	\$	1.35	1.35	1.35	1.35	0.00
Avg Residential Bill at 500 kwh				206.32	197.12	
				Increase (Decrease -)		-9.20
				% Change		-4.46%

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

<u>EFFECTIVE DATE</u>	<u>FUEL FACTOR</u> <u>CENTS / KWH</u>		<u>RESIDENTIAL BILL (\$)</u>	
	<u>RESIDENTIAL & COMMERCIAL</u>	<u>@ 400 KWH</u>	<u>@ 500 KWH</u>	
January 1, 2017	-11.861	139.67	173.68	
February 1, 2017	-11.218	142.24	176.90	
March 1, 2017	-10.975	143.21	178.11	
April 1, 2017	-10.875	143.06	177.92	
May 1, 2017	-11.993	139.14	173.02	
June 1, 2017	-11.149	143.14	178.03	
July 1, 2017	-11.181	142.28	176.97	
August 1, 2017	-11.659	140.36	174.58	
September 1, 2017	-10.389	145.40	180.88	
October 1, 2017	-10.059	165.81	206.32	
November 1, 2017	-8.264	153.90	191.51	
December 1, 2017	-9.353	149.55	186.06	
January 1, 2018	-8.358	153.69	191.20	
February 1, 2018	-8.395	153.54	191.01	
March 1, 2018	-7.868	155.65	193.65	
April 1, 2018	-9.141	150.05	186.64	
May 1, 2018	-7.716	156.26	194.41	
June 1, 2018	-6.144	163.86	203.92	
July 1, 2018	-5.753	165.46	205.95	
August 1, 2018	-7.005	160.45	199.69	
September 1, 2018	-6.735	166.53	207.25	
October 1, 2018	-6.372	167.98	209.07	
November 1, 2018	-6.037	169.32	210.74	
December 1, 2018	-5.396	171.89	213.95	
January 1, 2019	-6.950	165.81	206.32	
February 1, 2019	-8.789	158.45	197.12	

**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
06/01/11	IRP RECOVERY REFUND	0.000 PERCENT ON BASE
08/01/13	FINAL RATE INCREASE (1.25%), DOCKET NO. 2011-0092 (2012 TEST YEAR)	
01/01/16 - 06/30/16	GREEN INFRASTRUCTURE FEE	1.3000 DOLLARS/MONTH
03/01/16 - 02/28/17	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0099 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
06/01/16 - 05/31/17	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.4082 CENTS/KWH
07/01/16 - 06/30/17	RESID. PBF SURCHARGE ADJUSTMENT	0.5865 CENTS/KWH
07/01/16 - 12/31/16	GREEN INFRASTRUCTURE FEE	1.13 DOLLARS/MONTH
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 - 03/31/18	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/17 - 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 - 06/30/18	RESID. PBF SURCHARGE ADJUSTMENT	0.4244 CENTS/KWH
08/17/17	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0000 CENTS/KWH
01/01/18 - 06/30/18	GREEN INFRASTRUCTURE FEE	1.34 DOLLARS/MONTH
04/01/18 - 04/30/18	SOLARSAVER ADJUSTMENT	1.3400 CENTS/KWH
05/01/18	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/18 - 08/22/18	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.8954 CENTS/KWH
07/01/18	RESID. PBF SURCHARGE ADJUSTMENT	0.4658 CENTS/KWH
07/01/18 - 12/31/18	GREEN INFRASTRUCTURE FEE	1.21 DOLLARS/MONTH
08/23/18	INTERIM RATE INCREASE 2018 TEST YEAR	6.36 PERCENT ON BASE
08/23/18	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.3183 CENTS/KWH
01/01/19	GREEN INFRASTRUCTURE FEE	1.35 DOLLARS/MONTH

~ Surcharges currently in effect are in bold.

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