



April 26, 2023

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 Recovery Factor for May 2023

Maui Electric Company, Limited's ("Maui Electric" or "Company") May 2023 Energy Cost Recovery factor for our Maui Division is 24.180 cents per kilowatt-hour ("kWh"), a decrease of 0.356 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$210.60, a decrease of \$1.77 compared to rates effective April 1, 2023. The decrease in the typical residential bill is due to the decrease in the Energy Cost Recovery factor (-\$1.78) and Purchase Power Adjustment (-\$0.05) partially offset by the residential DSM Adjustment (+\$0.04) and termination of the Solar Saver Adjustment credit (+\$0.02).

The Company's Maui Division fuel composite cost of generation, central station and other decreased 122.350 cents per million BTU to 1,962.15 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy increased 0.071 cents per kWh to 20.474 cents per kWh.

The Energy Cost Recovery factor for our Lāna'i Division for May 2023 is 29.925 cents per kWh, a decrease of 3.309 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$195.65, a decrease of \$13.22 compared to rates effective April 1, 2023. The decrease in the typical residential bill is due to the decrease in the Energy Cost Recovery factor (-\$13.24) partially offset by the termination of the Solar Saver Adjustment credit (+\$0.02).

The Company's Lāna'i Division fuel composite cost of generation, central station and other decreased 303.97 cents per million BTU to 2,579.38 cents per million BTU. The composite cost DG energy is 0.00 cents per kWh. The composite cost of purchased energy is 30.00 cents per kWh.

The Energy Cost Recovery factor for our Moloka'i Division for May 2023 is 31.924 cents per kWh, an increase of 2.362 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$210.80, an increase of \$9.47 compared to rates effective April 1, 2023. The increase in the typical residential bill is due to the increase in the Energy Cost Recovery (+\$9.45) and the termination of the Solar Saver Adjustment credit (+\$0.02).

The Honorable Chair and Members  
of the Hawai'i Public Utilities Commission  
April 26, 2023  
Page 2

The Company's Moloka'i Division fuel composite cost of generation, central station and other increased 210.96 cents per million BTU to 2,622.78 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, 2023.

Sincerely,

/s/ Dean K. Matsuura  
Dean K. Matsuura  
Director, Regulatory Rate Proceedings  
Hawaiian Electric Company, Inc.

Attachments

cc: Division of Consumer Advocacy

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

**ENERGY COST RECOVERY FACTOR**

	EFFECTIVE DATES		<u>Change</u>
	<u>4/01/2023</u>	<u>5/01/2023</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	2,883.35	2,579.38	(303.97)
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 Recovery, ¢/kWh	33.234	29.925	(3.309)
<u>Others - "G,J,P,F"</u>			
Energy Cost Recovery, ¢/kWh	33.234	29.925	(3.309)
<u>Residential Customer with</u>			
400 KWH Consumption, \$/Bill	208.87	195.65	(13.22)
500 KWH Consumption, \$/Bill	259.45	242.93	(16.52)

Supersedes Sheet Effective:

4/01/2023

MAUI ELECTRIC COMPANY, LTD.  
LANAI DIVISION

ENERGY COST RECOVERY (ECR) FILING

ENERGY COST RECOVERY (ECR) FILING - May 1, 2023 (page 1 of 2)

Line

1 Effective Date May 1, 2023  
2 Supersedes Factors of April 1, 2023

**GENERATION COMPONENT**

<b>CENTRAL STATION</b>				<b>DG ENERGY COMPONENT</b>	
FUEL PRICES, ¢/mmbtu					
3	Industrial		0.00		
4	Diesel - Miki Basin		2,579.38		
5					
6	Other		0.00		
BTU MIX, %					
7	Industrial		0.00%	25	COMPOSITE COST OF DG ENERGY, ¢/kWh
8	Diesel - Miki Basin		100.00%		0.000
9					
10	Other		0.00%	26	% Input to System kWh Mix
			100.00%		0.00%
11	COMPOSITE COST OF GENERATION, CENTRAL STATION + OTHER ¢/mmbtu (Lines (3 x 7) + (4 x 8) + (5 x 9) + (6 x 10))		2,579.38	27	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 25 x 26)
12	% Input to System kWh Mix		96.47%		0.00000
EFFICIENCY FACTOR, mmbtu/kWh					
	(A)	(B)	(C)	(D)	
			Percent of		
			Centrl Stn +		
			Other		
	Fuel Type	Eff Factor	Weighted		
		mmbtu/kwh	Eff Factor		
13	Industrial	0.000000	0.00	31	Cost Less Base (Line 27 - 30)
14	Diesel	0.010722	100.00	32	Loss Factor
15	Other	0.010722	0.00	33	Revenue Tax Req Multiplier
	(Lines 13, 14, 15): Col(B) x Col(C) = Col(D)			34	DG FACTOR, ¢/kWh (Line 31 x 32 x 33)
16	Weighted Efficiency Factor, mmbtu/kWh [(lines 13(D) + 14(D) + 15(D))]		0.010722		0.00000
17	WEIGHTED COMPOSITE CENTRAL STATION + OTHER GEN COST, ¢/kWh (lines (11 x 12 x 16))		26.67985		
18	BASE CENTRAL STATION + OTHER GENERATION COST, ¢/mmbtu		-		
19	Base % Input to Sys kWh Mix		0.00%		
20	Efficiency Factor, mmbtu/kwh		0.010722		
21	WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST ¢/kWh (lines (18 x 19 x 20))		-		
22	COST LESS BASE (line(17 - 21))		26.67985		
23	Revenue Tax Req Multiplier		1.0975		
24	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (22 x 23))		29.28114		
				SUMMARY OF	
				TOTAL GENERATION FACTOR, ¢/kWh	
				35	CNTRL STN + OTHER (line 24)
				36	DG (line 34)
				37	TOTAL GENERATION FACTOR, ¢/kWh (lines 35 + 36)
					29.28114
					-
					29.28114

MAUI ELECTRIC COMPANY, LTD.  
LANAI DIVISION

ENERGY COST RECOVERY (ECR) FILING

ENERGY COST RECOVERY (ECR) FILING - May 1, 2023 (page 2 of 2)

Line

- 1 Effective Date May 1, 2023
- 2 Supercedes Factors of April 1, 2023

<u>Line</u>	<b>PURCHASED ENERGY COMPONENT</b>	
	PURCHASED ENERGY PRICE, ¢/kWh - FOSSIL	
	PURCHASED ENERGY PRICE, ¢/kWh - RENEWABLE	
38	LANAI SOLAR RESEARCH - On Peak	30.000
39	- Off Peak	30.000
40	Sch Q	0.000
	PURCHASED ENERGY KWH MIX, %, FOSSIL	
	PURCHASED ENERGY KWH MIX, %, RENEWABLE	
41	LANAI SOLAR RESEARCH - On Peak	100.00%
42	- Off Peak	0.00%
43	Sch Q	0.00%
43A	Total Fossil %	0.00%
43B	Total Renewable %	100.00%
43C	Comp. cost of purch. energy, fossil ¢/kWh	N/A
43D	Comp. cost of purch. energy, renewable ¢/kWh	30.00
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	3.53%
46	WEIGHTED COMP. PURCH. ENERGY COST, ¢/kWh (lines (44 x 45))	1.05900
47	BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh	0.000
48	Base % Input to Sys kWh Mix	0.00
49	WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (lines (47 x 48))	0.00000
50	COST LESS BASE(lines (46 - 49))	1.05900
51	Loss Factor	1.050
52	Revenue Tax Req Multiplier	1.0975
53	PURCHASED ENERGY FACTOR, ¢/kWh (lines (50 x 51 x 52))	1.22037

<b>Calculation of Monthly Fossil Fuel Cost Risk Sharing Component</b>		
<b>Baseline Diesel</b>		
54	Diesel \$, baseline month	\$936,167
55	Diesel mmbtu, baseline	30,062
56	Baseline Diesel, ¢/mmbtu	3,114.12
<b>Month Diesel</b>		
57	Diesel mmbtu, budget	28,655
58	Diesel Cost, ¢/mmbtu	2,579.38
59	Diesel ECRC Fossil Cost	\$739,118
60	Diesel Base ECRC Recovery Target	\$892,346
61	Diesel differential	-\$153,228
62	Total Fossil	-\$153,228
63	2% of above	-\$3,065
64	Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year	-\$1,784
65	Maximum Annual Cap (bi-directional)	\$31,500
66	Number of Days in year from implementation	365
67	Fossil Risk % Proration (based on 365 day year)	100.00%
68	Maximum Annual Cap (bi-directional) prorated	\$31,500
69	Applicable Monthly Fossil Fuel Cost Risk Sharing	-\$3,065
70	Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month	-\$4,849
71	Fossil Cost Risk Sharing before taxes	-\$3,065
72	Revenue Tax Adjustment	1.097514
73	Fossil Cost Risk Sharing w/revenue tax	-\$3,363
74	Forecasted Month MWh Sales	2,771
75	Fossil Fuel Cost Risk Sharing Component, ¢/kWh	0.1214

Line **SYSTEM COMPOSITE CALCULATIONS**

76	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (lines (37 + 53))	30.50151
77	Adjustment, ¢/kWh	0.000
78	Fossil Fuel Cost Risk Sharing Component	0.121
79	ECR Reconciliation Adjustment	(0.698)
80	ECR FACTOR, ¢/kWh (lines (76 + 77 + 78 + 79))	29.925

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

**MONTH END FUEL OIL ESTIMATE**

<b><u>Miki Basin - ULSD</u></b>	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
4/20/2023	4,788.45	27,437.82	737,711.65
Estimated Use	1,663.10	9,529.56	274,770.65
Estimated Received	1,285.71	7,367.12	193,596.81
Estimated Additional	589.81	3,379.62	82,583.72
Estimated End	5,000.87	28,655.00	739,121.53

Next Month's Combined Miki Expense (\$/bbl) = \$ 147.7986 /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	\$ 147.7986	5.73 BTU/BBL	2,579.38

**MAUI ELECTRIC COMPANY, LTD.**  
**Lanai Division**  
**ECR Reconciliation Adjustment**

**May 2023**

1. Amount to be refunded	(\$52,900)
2. Monthly amount (1 / 3 X Line 1)	(\$17,633)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$19,352)
5. Estimated Sales (May 2023)	2,771 mwh
6. Adjustment (Line 4 ÷ Line 5)	-0.698 ¢/kwh

**MAUI ELECTRIC COMPANY, LTD.  
LANAI DIVISION  
2023 FUEL OIL ADJUSTMENT RECONCILIATION SUMMARY  
(Thousand \$)**

<u>Line</u>	Without Deadband 1st Quarter <u>YTD Total</u>	collection by <u>company*</u>	Basis for Recon With Deadband 1st Quarter <u>YTD Total</u>	collection by <u>company*</u>
ACTUAL COSTS:				
1	Generation	\$2,709.4	\$2,709.4	
2	Distributed Generation	\$0.0	\$0.0	
3	Purch Power	<u>-\$45.0</u>	<u>-\$45.0</u>	
4	TOTAL	\$2,664.4	\$2,664.4	
FUEL FILING COST				
5	Generation	\$2,710.1	\$2,709.4	
6	Distributed Generation	\$0.0	\$0.0	
7	Purch Power	<u>-\$45.0</u>	<u>-\$45.0</u>	
8	TOTAL	\$2,665.1	\$2,664.4	
BASE FUEL COST				
9	Generation	\$0.0	\$0.0	
10	Distributed Generation	\$0.0	\$0.0	
11	Purch Power	<u>\$0.0</u>	<u>\$0.0</u>	
12	TOTAL	\$0.0	\$0.0	
13	FUEL-BASE COST (Line 8-12)	\$2,665.1	\$2,664.4	
14	ACTUAL FOA LESS TAX	\$2,659.4	\$2,659.4	
15	FOA reconciliation adj for prior year	<u>-\$58.4</u>	<u>-\$58.4</u>	
16	ADJUSTED FOA LESS TAX	\$2,717.8	\$2,717.8	
17	FOA-(FUEL-BASE) (Line 16-13)	\$52.7 Over	\$53.4 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)	\$52.7 Over	\$53.4 Over	
21A	YTD Fossil Fuel Cost Risk Sharing Adjustment	<u>-\$0.5</u>	<u>-\$0.5</u>	
21B	Quarterly FOA Recon w/Fossil Risk Adj (Line 21 + Line 21A)	<u><u>\$52.2</u></u>	<u><u>\$52.9</u></u>	
22	2022 FOA Reconciliation Recognized in FOA Rates		<u>\$0.0</u>	
23	FOA Reconciliation to be Refunded May 2023 to July 2023 (Line 22- 21B)		<u><u>-\$52.9</u></u> Refunded	

\* 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, 2023 Through March 31, 2023

	<u>Notes</u>	<u>YTD</u>
<b><u>Diesel</u></b>		
Diesel Efficiency Factor, BTU/kWh	f	10,722
Diesel Deadband Definition, +/- BTU/kWh	d	<b>50</b>
Diesel Portion of Recorded Sales, MWh	a	8,191
Diesel Consumption (Recorded), MMBTU	b	87,796
Diesel Efficiency Factor (Recorded), BTU/kWh	c = (b/a)*1000	10,719
Lower limit of Diesel Deadband, BTU/kWh	e = f-d	10,672
Higher limit of Diesel Deadband, BTU/kWh	g = f+d	10,772
Diesel Efficiency Factor for cost-recovery, BTU/kWh	h = c, e, or g	<b>10,719</b>

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

	<b>2023</b>	
	<b>Without Deadband</b>	<b>With Deadband AS FILED</b>
	<u>Jan 1 - Mar 31</u>	<u>Jan 1 - Mar 31</u>
Diesel Portion of Recorded Sales, MWH	8,191	8,191
Diesel Sales Efficiency Factor (mmbtu/kwh)	0.010722	0.010719
Mmbtu adjusted for Sales Efficiency Factor	87,823	87,799
\$/mmbtu	<u>\$30.8588</u>	<u>\$30.8588</u>
TOTAL DIESEL \$000s TO BE RECOVERED	\$2,710.1	\$2,709.4
TOTAL GENERATION FUEL FILING COST, \$000s	\$2,710.1	\$2,709.4
TOTAL GENERATION BASE FUEL COST , \$000s	\$0.0	\$0.0
TOTAL GENERATION FUEL FILING COST, \$000s YTD	\$2,710.1	\$2,709.4
TOTAL GENERATION BASE FUEL COST, \$000s YTD	\$0.0	\$0.0

**Fossil Fuel Cost Risk Sharing Mechanism, March 2023, Lanai**

Jan-23, Baseline YTD Subject to Fossil Risk

		Jan-23, Baseline	YTD Subject to Fossil Risk
<b>Diesel Fossil Fuel Cost Risk Sharing</b>			
AA	MMBtu	30,062	87,796
BB	\$ cost, actuals	\$936,167	\$2,709,397
CC = BB / AA (Baseline Column)	Jan 2023 baseline \$/mmbtu	31.1411734	31.1411734
DD	Diesel Gen kWh		8,529,766
EE	Total kWh, Gen, Purch Pwr, DG		8,534,369
FF	Sales kWh		8,195,347
GG = (DD / EE) x FF	Diesel kWh-sales		8,190,927
HH	Target Heat Rate		10,722
II1	Upper limit w/deadband		10,772
II2	Lower limit w/deadband		10,672
II3	Calculated Heat Rate (YTD subject to fossil risk, before deadband)		10,719
II	Recovery Heat Rate (YTD subject to fossil risk, after deadband)		10,719
JJ = BB/AA (YTD Column)	Actual Cost \$/MMbtu		30.8601684
KK = CC x HH x GG / 1,000,000	Base Cost Recovery w/Target Heat Rate		\$2,734,915
LL = II x JJ x GG / 1,000,000	Fuel Filing Cost Recovery		\$2,709,478
<b>MM = 2% x (LL-KK)</b>	<b>Diesel Cost Risk Sharing</b>		<b>-\$509</b>
NN	Annual Cap (non-prorated)		\$31,500
OO	# Days		365
PP	Annual Cap (pro-rated)		\$31,500
QQ = MM, up to cap	Total Fossil Fuel Cost Risk Sharing Adjustment, subject to ±\$31500 cap		-\$509

**MAUI ELECTRIC COMPANY, LTD.**  
**LANAI DIVISION**  
**2023 Cumulative Reconciliation Balance**

<u>Month</u>	(1) <u>YTD FOA Reconciliation</u>	<u>Qtr</u>	(2) <u>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 '21					(22,367)	(20,800)	27,810
January '22					(22,367)	(20,722)	7,088
February	55,600	(4)	5,451	50,149	(18,533)	(16,329)	40,908
March					(18,533)	(18,196)	22,712
April					(18,533)	(17,076)	5,636
May	68,500	(1)	4,186	64,314	(22,833)	(23,687)	46,263
June					(22,833)	(22,948)	23,315
July					(22,833)	(22,368)	947
August	55,300	(2)	488	54,812	(18,433)	(17,864)	37,895
September					(18,433)	(17,494)	20,401
October					(18,433)	(18,331)	2,070
November	58,900	(3)	1,973	56,927	(19,633)	(18,575)	40,422
December					(19,633)	(18,053)	22,369
January '23					(19,633)	(20,368)	2,001
February	58,300	(4)	2,740	55,560	(19,433)	(19,178)	38,383
March					(19,433)	(19,777)	18,606
April					(19,433)		
May	52,900	(1)	(824)	53,724	(17,633)		

## 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		
	4/01/23	5/01/23	4/01/23	5/01/23	Difference
<b>Base Rates</b>	effective date:	09/01/19	09/01/19		
Base Fuel/Energy Charge	¢/kWh	0.0000	0.0000	0.00	0.00
Non-fuel Energy Charge					
First 250 kWh per month	¢/kWh	12.3123	12.3123	30.78	30.78
Next 500 kWh per month	¢/kWh	14.8123	14.8123	22.22	22.22
Customer Charge	\$	11.50	11.50	11.50	11.50
<b>Total Base Charges</b>				64.50	64.50
<b>IRP Refund</b>	% on base	0.0000	0.0000	0.00	0.00
<b>Revenue Balancing Rate Adjustment</b>	¢/kWh	1.9048	1.9048	7.62	7.62
<b>PBF Surcharge</b>	¢/kWh	0.6488	0.6488	2.60	2.60
<b>Renewable Energy Infrastructure Cost</b>					
<b>Recovery Provision</b>	¢/kWh	0.0000	0.0000	0.00	0.00
<b>SolarSaver Adjustment</b>	¢/kWh	-0.0038	0.0000	-0.02	0.00
<b>Energy Cost Recovery</b>	¢/kWh	33.234	29.925	132.94	119.70
<b>Green Infrastructure Fee</b>	\$	1.23	1.23	1.23	1.23
<b>Avg Residential Bill at 400 kwh</b>				208.87	195.65

Increase (Decrease -)	-13.22
% Change	-6.33%

	Rate		Charge (\$) at 500 Kwh		
	4/01/23	5/01/23	4/01/23	5/01/23	Difference
<b>Base Rates</b>	effective date:	09/01/19	09/01/19		
Base Fuel/Energy Charge	¢/kWh	0.0000	0.0000	0.00	0.00
Non-fuel Energy Charge					
First 250 kWh per month	¢/kWh	12.3123	12.3123	30.78	30.78
Next 500 kWh per month	¢/kWh	14.8123	14.8123	37.03	37.03
Customer Charge	\$	11.50	11.50	11.50	11.50
<b>Total Base Charges</b>				79.31	79.31
<b>IRP Refund</b>	% on base	0.0000	0.0000	0.00	0.00
<b>Revenue Balancing Rate Adjustment</b>	¢/kWh	1.9048	1.9048	9.52	9.52
<b>PBF Surcharge</b>	¢/kWh	0.6488	0.6488	3.24	3.24
<b>Renewable Energy Infrastructure Cost</b>					
<b>Recovery Provision</b>	¢/kWh	0.0000	0.0000	0.00	0.00
<b>SolarSaver Adjustment</b>	¢/kWh	-0.0038	0.0000	-0.02	0.00
<b>Energy Cost Recovery</b>	¢/kWh	33.234	29.925	166.17	149.63
<b>Green Infrastructure Fee</b>	\$	1.23	1.23	1.23	1.23
<b>Avg Residential Bill at 500 kwh</b>				259.45	242.93

Increase (Decrease -)	-16.52
% Change	-6.37%

**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 &amp; COMMERCIAL</u>	<u>RESIDENTIAL BILL (\$)</u> <u>@ 400 KWH</u>	<u>@ 500 KWH</u>
January 1, 2020	25.369	173.69	215.49
February 1, 2020	24.109	168.65	209.19
March 1, 2020	23.379	165.73	205.54
April 1, 2020	19.794	151.15	187.31
May 1, 2020	18.958	148.04	183.43
June 1, 2020	15.429	131.79	163.12
July 1, 2020	16.335	134.73	166.81
August 1, 2020	17.755	140.41	173.91
September 1, 2020	18.135	141.93	175.81
October 1, 2020	18.076	141.69	175.51
November 1, 2020	17.881	140.91	174.54
December 1, 2020	17.874	140.89	174.50
January 1, 2021	19.498	147.44	182.68
February 1, 2021	20.640	152.01	188.39
March 1, 2021	22.103	157.86	195.71
April 1, 2021	24.018	165.34	205.06
May 1, 2021	24.354	166.87	206.96
June 1, 2021	23.796	167.38	207.60
July 1, 2021	24.680	171.10	212.26
August 1, 2021	25.269	173.46	215.21
September 1, 2021	25.345	173.76	215.59
October 1, 2021	24.342	169.75	210.57
November 1, 2021	29.191	189.14	234.82
December 1, 2021	29.254	189.40	235.13
January 1, 2022	28.241	189.19	234.87
February 1, 2022	28.361	189.67	235.47
March 1, 2022	31.445	202.01	250.89
April 1, 2022	33.341	209.46	260.21
May 1, 2022	37.529	226.35	281.31
June 1, 2022	41.508	240.84	299.43
July 1, 2022	43.106	247.17	307.35
August 1, 2022	43.083	247.08	307.24
September 1, 2022	37.630	225.27	279.97
October 1, 2022	37.815	226.01	280.90
November 1, 2022	37.960	226.59	281.62
December 1, 2022	38.346	228.13	283.55
January 1, 2023	36.114	220.41	273.87
February 1, 2023	36.012	220.00	273.36
March 1, 2023	34.661	214.59	266.61
April 1, 2023	33.234	208.87	259.45
May 1, 2023	29.925	195.65	242.93

**MAUI ELECTRIC COMPANY, LTD. -- Lanai 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>08/17/17</b>	<b>RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION</b>	<b>0.0000 CENTS/KWH</b>
<b>06/01/19</b>	<b>FINAL RATE INCREASE (3.74%), DOCKET NO. 2017-0150 (2018 TEST YEAR)</b>	
05/01/20 - 03/31/21	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/20 - 05/31/21	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.3383 CENTS/KWH
07/01/20 - 06/30/21	RESID. PBF SURCHARGE ADJUSTMENT	0.5882 CENTS/KWH
01/01/21 - 06/30/21	GREEN INFRASTRUCTURE FEE	1.25 DOLLARS/MONTH
04/01/21 - 04/30/21	SOLARSAVER ADJUSTMENT	-0.0445 CENTS/KWH
05/01/21 - 03/31/22	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/21 - 12/31/21	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.0242 CENTS/KWH
07/01/21 - 12/31/21	GREEN INFRASTRUCTURE FEE	1.19 DOLLARS/MONTH
07/01/21 - 06/30/22	RESID. PBF SURCHARGE ADJUSTMENT	0.6478 CENTS/KWH
01/01/22 - 05/31/22	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.9714 CENTS/KWH
01/01/22 - 06/30/22	GREEN INFRASTRUCTURE FEE	1.25 DOLLARS/MONTH
04/01/22 - 04/30/22	SOLARSAVER ADJUSTMENT	-0.0315 CENTS/KWH
05/01/22 - 03/31/23	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/22 - 12/31/22	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.6175 <b>CENTS/KWH</b>
<b>07/01/22</b>	<b>RESID. PBF SURCHARGE ADJUSTMENT</b>	<b>0.6488 CENTS/KWH</b>
07/01/22 - 12/31/22	GREEN INFRASTRUCTURE FEE	1.18 DOLLARS/MONTH
<b>01/01/23</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.23 DOLLARS/MONTH</b>
<b>01/01/23</b>	<b>REVENUE BALANCING ACCOUNT RATE ADJUSTMENT</b>	<b>1.9048 CENTS/KWH</b>
04/01/23 - 04/30/23	SOLARSAVER ADJUSTMENT	-0.0038 CENTS/KWH
<b>05/01/23</b>	<b>SOLARSAVER ADJUSTMENT</b>	<b>0.0000 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.