



October 26, 2022

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 November 2022

Maui Electric Company, Limited's ("Maui Electric" or "Company") November 2022 Energy Cost Recovery factor for our Maui Division is 24.488 cents per kilowatt-hour ("kWh"), a decrease of 3.659 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$210.08, a decrease of \$19.08 compared to rates effective October 1, 2022. The decrease in the typical residential bill is due to the decrease in the Energy Cost Recovery factor (-\$18.30) and decrease in the residential DSM Adjustment (-\$1.08), partially offset by an increase in the Purchase Power Adjustment (+\$0.30).

The Company's Maui Division fuel composite cost of generation, central station and other decreased 273.400 cents per million BTU to 2,207.68 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy decreased 0.991 cents per kWh to 18.615 cents per kWh.

The Energy Cost Recovery factor for our Lāna'i Division for November 2022 is 37.960 cents per kWh, an increase of 0.145 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$226.59, an increase of \$0.58 compared to rates effective October 1, 2022. The increase in the typical residential bill is due to the increase in the Energy Cost Recovery factor.

The Company's Lāna'i Division fuel composite cost of generation, central station and other increased 16.64 cents per million BTU to 3,269.87 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 November 2022 is 31.953 cents per kWh, a decrease of 4.451 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$209.71, a decrease of \$17.81 compared to rates effective October 1, 2022. The decrease in the typical residential bill is due to the decrease in the Energy Cost Recovery factor.

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The Honorable Chair and Members
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The Company's Moloka'i Division fuel composite cost of generation, central station and other decreased 369.66 cents per million BTU to 2,661.77 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 November 1, 2022.

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>10/01/2022</u>	<u>11/01/2022</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	3,253.23	3,269.87	16.64
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	37.815	37.960	0.145
<u>Others - "G,J,P,F"</u>			
Energy Cost Recovery, ¢/kWh	37.815	37.960	0.145
<u>Residential Customer with</u>			
400 KWH Consumption, \$/Bill	226.01	226.59	0.58
500 KWH Consumption, \$/Bill	280.90	281.62	0.72

Supersedes Sheet Effective: 10/01/2022

MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION

ENERGY COST RECOVERY (ECR) FILING

ENERGY COST RECOVERY (ECR) FILING - November 1, 2022 (page 1 of 2)

Line

1 Effective Date November 1, 2022
2 Supercedes Factors of October 1, 2022

GENERATION COMPONENT

CENTRAL STATION						DG ENERGY COMPONENT	
FUEL PRICES, ¢/mmbtu							
3	Industrial		0.00				
4	Diesel - Miki Basin		3,269.87				
5							
6	Other		0.00				
BTU MIX, %							
7	Industrial		0.00%	25	COMPOSITE COST OF DG		
8	Diesel - Miki Basin		100.00%		ENERGY, ¢/kWh	0.000	
9							
10	Other		0.00%	26	% Input to System kWh Mix	0.00%	
			100.00%				
11	COMPOSITE COST OF GENERATION, CENTRAL STATION + OTHER ¢/mmbtu (Lines (3 x 7) + (4 x 8) + (5 x 9) + (6 x 10))		3,269.87	27	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 25 x 26)	0.00000	
12	% Input to System kWh Mix		97.49%	28	BASE DG ENERGY COMP COST	0.000	
	EFFICIENCY FACTOR, mmbtu/kWh			29	Base % Input to System kWh Mix	0.00%	
	(A)	(B)	(C)	(D)	30	WEIGHTED BASE DG ENERGY COST, ¢/kWh (Line 28 x 29)	0.00000
			Percent of				
			Centrl Stn +		31	Cost Less Base (Line 27 - 30)	0.00000
	Fuel Type	Eff Factor	Other	Weighted	32	Loss Factor	1.0500
		mmbtu/kwh		Eff Factor	33	Revenue Tax Req Multiplier	1.0975
13	Industrial	0.000000	0.00	0.000000	34	DG FACTOR, ¢/kWh (Line 31 x 32 x 33)	0.00000
14	Diesel	0.010809	100.00	0.010809			
15	Other	0.010809	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))]		0.010809				
17	WEIGHTED COMPOSITE CENTRAL STATION + OTHER GEN COST, ¢/kWh (lines (11 x 12 x 16))		34.45689				
18	BASE CENTRAL STATION + OTHER GENERATION COST, ¢/mmbtu		-				
19	Base % Input to Sys kWh Mix		0.00%				
20	Efficiency Factor, mmbtu/kwh		0.010809				
21	WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST ¢/kWh (lines (18 x 19 x 20))		-				
22	COST LESS BASE (line(17 - 21))		34.45689				
23	Revenue Tax Req Multiplier		1.0975				
24	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (22 x 23))		37.81644				
					SUMMARY OF		
					TOTAL GENERATION FACTOR, ¢/kWh		
					35 CNTRL STN + OTHER (line 24)	37.81644	
					36 DG (line 34)	-	
					37 TOTAL GENERATION FACTOR, ¢/kWh (lines 35 + 36)	37.81644	

MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION

ENERGY COST RECOVERY (ECR) FILING

ENERGY COST RECOVERY (ECR) FILING - November 1, 2022 (page 2 of 2)

Line

1 Effective Date November 1, 2022
2 Supercedes Factors of October 1, 2022

<u>Line</u>	PURCHASED ENERGY COMPONENT	
	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	2.51%
46	WEIGHTED COMP. PURCH. ENERGY COST, ¢/kWh (lines (44 x 45))	0.75300
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))	0.75300
51	Loss Factor	1.050
52	Revenue Tax Req Multiplier	1.0975
53	PURCHASED ENERGY FACTOR, ¢/kWh (lines (50 x 51 x 52))	0.86774

Calculation of Monthly Fossil Fuel Cost Risk Sharing Component		
Baseline Diesel		
54	Diesel \$, baseline month	\$708,879
55	Diesel mmbtu, baseline	29,161
56	Baseline Diesel, ¢/mmbtu	2,430.88
Month Diesel		
57	Diesel mmbtu, budget	30,894
58	Diesel Cost, ¢/mmbtu	3,269.87
59	Diesel ECRC Fossil Cost	\$1,010,196
60	Diesel Base ECRC Recovery Target	\$750,999
61	Diesel differential	\$259,197
62	Total Fossil	\$259,197
63	2% of above	\$5,184
64	Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year	\$31,500
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	\$0
70	Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month	\$31,500
71	Fossil Cost Risk Sharing before taxes	\$0
72	Revenue Tax Adjustment	1.097514
73	Fossil Cost Risk Sharing w/revenue tax	\$0
74	Forecasted Month MWh Sales	2,975
75	Fossil Fuel Cost Risk Sharing Component, ¢/kWh	0.0000

Line **SYSTEM COMPOSITE CALCULATIONS**

76	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (lines (37 + 53))	38.68418
77	Adjustment, ¢/kWh	0.000
78	Fossil Fuel Cost Risk Sharing Component	0.000
79	ECR Reconciliation Adjustment	(0.724)
80	ECR FACTOR, ¢/kWh (lines (76 + 77 + 78 + 79))	37.960

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

MONTH END FUEL OIL ESTIMATE

<u>Miki Basin - ULSD</u>	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
10/19/2022	4,328.90	24,804.60	824,074.35
Estimated Use	2,146.52	12,299.56	400,132.96
Estimated Received	1,142.86	6,548.59	212,924.53
Estimated Additional	2,065.86	11,837.37	373,229.91
Estimated End	5,391.10	30,891.00	1,010,095.83

Next Month's Combined Miki Expense (\$/bbl) = \$ 187.3636 /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	\$ 187.3636	5.73 BTU/BBL	3,269.87

MAUI ELECTRIC COMPANY, LTD.
Lanai Division
ECR Reconciliation Adjustment

November 2022

1. Amount to be refunded	(\$58,900)
2. Monthly amount (1 / 3 X Line 1)	(\$19,633)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$21,547)
5. Estimated Sales (November 2022)	2,975 mwh
6. Adjustment (Line 4 ÷ Line 5)	-0.724 ¢/kwh

**MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION
2022 FUEL OIL ADJUSTMENT RECONCILIATION SUMMARY
(Thousand \$)**

<u>Line</u>	Without Deadband 3rd Quarter <u>YTD Total</u>	collection by <u>company*</u>	Basis for Recon With Deadband 3rd Quarter <u>YTD Total</u>	collection by <u>company*</u>
ACTUAL COSTS:				
1	Generation	\$8,614.6	\$8,614.6	
2	Distributed Generation	\$0.0	\$0.0	
3	Purch Power	<u>-\$73.6</u>	<u>-\$73.6</u>	
4	TOTAL	\$8,541.0	\$8,541.0	
FUEL FILING COST				
5	Generation	\$8,748.4	\$8,708.0	
6	Distributed Generation	\$0.0	\$0.0	
7	Purch Power	<u>-\$73.6</u>	<u>-\$73.6</u>	
8	TOTAL	\$8,674.8	\$8,634.4	
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)	\$8,674.8	\$8,634.4	
14	ACTUAL FOA LESS TAX	\$8,602.5	\$8,602.5	
15	FOA reconciliation adj for prior year	<u>-\$77.9</u>	<u>-\$77.9</u>	
16	ADJUSTED FOA LESS TAX	\$8,680.4	\$8,680.4	
17	FOA-(FUEL-BASE) (Line 16-13)	\$5.6 Over	\$46.0 Over	
ADJUSTMENTS				
18	Current year FOA accrual reversal	\$105.2	\$105.2	
19	Other prior year FOA	\$0.0	\$0.0	
20	Other	<u>\$0.0</u>	<u>\$0.0</u>	
21	3rd QUARTER FOA RECONCILIATION (Lines 17+18+19+20)	\$110.8 Over	\$151.2 Over	
21A	YTD Fossil Fuel Cost Risk Sharing Adjustment	<u>\$31.5</u>	<u>\$31.5</u>	
21B	Quarterly FOA Recon w/Fossil Risk Adj (Line 21 + Line 21A)	<u><u>\$142.3</u></u>	<u><u>\$182.7</u></u>	
22	2nd Quarter FOA Reconciliation YTD		\$123.8 Over	
23	FOA Reconciliation to be Refunded November 2022 to January 2023 (Line 22- 21B)		<u><u>-\$58.9 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, 2022 Through September 30, 2022

	<u>Notes</u>	<u>YTD</u>
<u>Diesel</u>		
Diesel Efficiency Factor, BTU/kWh	f	10,809
Diesel Deadband Definition, +/- BTU/kWh	d	50
Diesel Portion of Recorded Sales, MWh	a	25,826
Diesel Consumption (Recorded), MMBTU	b	274,555
Diesel Efficiency Factor (Recorded), BTU/kWh	c = (b/a)*1000	10,631
Lower limit of Diesel Deadband, BTU/kWh	e = f-d	10,759
Higher limit of Diesel Deadband, BTU/kWh	g = f+d	10,859
Diesel Efficiency Factor for cost-recovery, BTU/kWh	h = c, e, or g	10,759

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

	2022	
	Without Deadband	With Deadband AS FILED
	<u>Jan 1 - Sep 30</u>	<u>Jan 1 - Sep 30</u>
Diesel Portion of Recorded Sales, MWH	25,826	25,826
Diesel Sales Efficiency Factor (mmbtu/kwh)	0.010809	0.010759
Mmbtu adjusted for Sales Efficiency Factor	279,158	277,866
\$/mmbtu	<u>\$31.3387</u>	<u>\$31.3387</u>
TOTAL DIESEL \$000s TO BE RECOVERED	\$8,748.4	\$8,708.0
TOTAL GENERATION FUEL FILING COST, \$000s	\$8,748.4	\$8,708.0
TOTAL GENERATION BASE FUEL COST , \$000s	\$0.0	\$0.0
TOTAL GENERATION FUEL FILING COST, \$000s YTD	\$8,748.4	\$8,708.0
TOTAL GENERATION BASE FUEL COST, \$000s YTD	\$0.0	\$0.0

Fossil Fuel Cost Risk Sharing Mechanism, September 2022, Lanai

Jan-22, Baseline YTD Subject to Fossil Risk

Diesel Fossil Fuel Cost Risk Sharing			
AA	MMBtu	29,161	274,555
BB	\$ cost, actuals	\$708,879	\$8,614,555
CC = BB / AA (Baseline Column)	Jan 2022 baseline \$/mmbtu	24.3088441	24.3088441
DD	Diesel Gen kWh		27,073,098
EE	Total kWh, Gen, Purch Pwr, DG		27,295,119
FF	Sales kWh		26,038,422
GG = (DD / EE) x FF	Diesel kWh-sales		25,826,623
HH	Target Heat Rate		10,809
II1	Upper limit w/deadband		10,859
II2	Lower limit w/deadband		10,759
II3	Calculated Heat Rate (YTD subject to fossil risk, before deadband)		10,631
II	Recovery Heat Rate (YTD subject to fossil risk, after deadband)		10,759
JJ = BB/AA (YTD Column)	Actual Cost \$/MMbtu		31.3763710
KK = CC x HH x GG / 1,000,000	Base Cost Recovery w/Target Heat Rate		\$6,786,056
LL = II x JJ x GG / 1,000,000	Fuel Filing Cost Recovery		\$8,718,509
MM = 2% x (LL-KK)	Diesel Cost Risk Sharing		\$38,649
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		\$31,500

**MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION
2022 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 '20					(28,400)	(28,503)	32,466
January '21					(28,400)	(25,647)	6,819
February	70,000	(4)	4,076	65,924	(23,333)	(20,929)	51,814
March					(23,333)	(21,960)	29,854
April					(23,333)	(21,452)	8,402
May	80,200	(1)	6,530	73,670	(26,733)	(25,485)	56,587
June					(26,733)	(25,141)	31,446
July					(26,733)	(25,403)	6,043
August	69,700	(2)	4,721	64,979	(23,233)	(22,228)	48,794
September					(23,233)	(20,522)	28,272
October					(23,233)	(21,136)	7,136
November	67,100	(3)	5,046	62,054	(22,367)	(20,580)	48,610
December					(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)		
November	58,900	(3)	1,973	56,927	(19,633)		

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		
	10/01/22	11/01/22	10/01/22	11/01/22	Difference
Base Rates	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
Total Base Charges				64.50	64.50
IRP Refund	% on base	0.0000	0.0000	0.00	0.00
Revenue Balancing Rate Adjustment	¢/kWh	1.6175	1.6175	6.47	6.47
PBF Surcharge	¢/kWh	0.6488	0.6488	2.60	2.60
Renewable Energy Infrastructure Cost					
Recovery Provision	¢/kWh	0.0000	0.0000	0.00	0.00
SolarSaver Adjustment	¢/kWh	0.0000	0.0000	0.00	0.00
Energy Cost Recovery	¢/kWh	37.815	37.960	151.26	151.84
Green Infrastructure Fee	\$	1.18	1.18	1.18	1.18
Avg Residential Bill at 400 kwh				226.01	226.59

Increase (Decrease -)	0.58
% Change	0.26%

	Rate		Charge (\$) at 500 Kwh		
	10/01/22	11/01/22	10/01/22	11/01/22	Difference
Base Rates	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
Total Base Charges				79.31	79.31
IRP Refund	% on base	0.0000	0.0000	0.00	0.00
Revenue Balancing Rate Adjustment	¢/kWh	1.6175	1.6175	8.09	8.09
PBF Surcharge	¢/kWh	0.6488	0.6488	3.24	3.24
Renewable Energy Infrastructure Cost					
Recovery Provision	¢/kWh	0.0000	0.0000	0.00	0.00
SolarSaver Adjustment	¢/kWh	0.0000	0.0000	0.00	0.00
Energy Cost Recovery	¢/kWh	37.815	37.960	189.08	189.80
Green Infrastructure Fee	\$	1.18	1.18	1.18	1.18
Avg Residential Bill at 500 kwh				280.90	281.62

Increase (Decrease -)	0.72
% Change	0.26%

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

<u>EFFECTIVE DATE</u>	FUEL FACTOR		RESIDENTIAL BILL (\$)
	CENTS / KWH	RESIDENTIAL & COMMERCIAL	
		<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

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

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
06/01/11	IRP RECOVERY REFUND	0.000 PERCENT ON BASE
08/17/17	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0000 CENTS/KWH
06/01/19	FINAL RATE INCREASE (3.74%), DOCKET NO. 2017-0150 (2018 TEST YEAR)	
06/01/19 - 06/30/19	REFUND OF INTERIM RATE INCREASE 2018 TEST YEAR	-2.03 PERCENT ON BASE
06/01/19 - 05/31/20	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.8716 CENTS/KWH
07/01/19 - 12/31/19	RESID. PBF SURCHARGE ADJUSTMENT	0.4775 CENTS/KWH
07/01/19 - 12/31/19	GREEN INFRASTRUCTURE FEE	1.17 DOLLARS/MONTH
01/01/20 - 06/30/20	RESID. PBF SURCHARGE ADJUSTMENT	0.7437 CENTS/KWH
01/01/20 - 06/30/20	GREEN INFRASTRUCTURE FEE	1.2500 DOLLARS/MONTH
04/01/20 - 04/30/20	SOLARSAVER ADJUSTMENT	-0.0592 CENTS/KWH
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
07/01/20 - 12/31/20	GREEN INFRASTRUCTURE FEE	1.19 DOLLARS/MONTH
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	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/22	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.6175 CENTS/KWH
07/01/22	RESID. PBF SURCHARGE ADJUSTMENT	0.6488 CENTS/KWH
07/01/22	GREEN INFRASTRUCTURE FEE	1.18 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.