



July 28, 2021

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 August 2021

Maui Electric Company, Limited's ("Maui Electric" or "Company") August 2021 Energy Cost Recovery factor for our Maui Division is 18.648 cents per kilowatt-hour ("kWh"), a decrease of 0.743 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$178.15, a decrease of \$5.12 compared to rates effective July 1, 2021. The decrease in the typical residential bill is due to the decrease in the Energy Cost Recovery factor (-\$3.71), decrease in the Purchase Power Adjustment (-\$1.08) and decrease in the residential DSM Adjustment (-\$0.33).

The Company's Maui Division fuel composite cost of generation, central station and other increased 81.160 cents per million BTU to 1,477.06 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy increased 0.226 cents per kWh to 20.377 cents per kWh.

The Energy Cost Recovery factor for our Lāna'i Division for August 2021 is 25.269 cents per kWh, an increase of 0.589 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$173.46, an increase of \$2.36 compared to rates effective July 1, 2021. 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 42.49 cents per million BTU to 2,178.77 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 August 2021 is 21.572 cents per kWh, an increase of 2.823 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$165.82, an increase of \$11.29 compared to rates effective July 1, 2021. The increase in the typical residential bill is due to the increase in the Energy Cost Recovery factor.

The Honorable Chair and Members
of the Hawai'i Public Utilities Commission
July 28, 2021
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The Company's Moloka'i Division fuel composite cost of generation, central station and other increased 253.10 cents per million BTU to 1,805.41 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 August 1, 2021.

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>07-01-21</u>	<u>08-01-21</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	2,136.28	2,178.77	42.49
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	24.680	25.269	0.589
<u>Others - "G,P,F"</u>			
Energy Cost Recovery, ¢/kWh	24.680	25.269	0.589
<u>Residential Customer with</u>			
400 KWH Consumption, \$/Bill	171.10	173.46	2.36
500 KWH Consumption, \$/Bill	212.26	215.21	2.95

Supersedes Sheet Effective:

July 1, 2021

MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION

ENERGY COST RECOVERY (ECR) FILING

ENERGY COST RECOVERY (ECR) FILING - August 1, 2021 (page 1 of 2)

Line

1 Effective Date August 1, 2021
2 Supercedes Factors of July 1, 2021

GENERATION COMPONENT

CENTRAL STATION				DG ENERGY COMPONENT		
FUEL PRICES, ¢/mmbtu						
3	Industrial		0.00			
4	Diesel - Miki Basin		2,178.77			
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))		2,178.77	27	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 25 x 26)	
12	% Input to System kWh Mix		96.49%		0.00000	
EFFICIENCY FACTOR, mmbtu/kWh						
	(A)	(B)	(C)	(D)		
	Fuel Type	Eff Factor mmbtu/kwh	Percent of Centrl Stn + Other	Weighted Eff Factor		
13	Industrial	0.000000	0.00	0.000000	31	Cost Less Base (Line 27 - 30)
14	Diesel	0.010810	100.00	0.010810	32	Loss Factor
15	Other	0.010810	0.00	0.000000	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))		0.010810			0.00000
17	WEIGHTED COMPOSITE CENTRAL STATION + OTHER GEN COST, ¢/kWh (lines (11 x 12 x 16))		22.72581			
18	BASE CENTRAL STATION + OTHER GENERATION COST, ¢/mmbtu		-			
19	Base % Input to Sys kWh Mix		0.00%			
20	Efficiency Factor, mmbtu/kwh		0.010810			
21	WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST ¢/kWh (lines (18 x 19 x 20))		-			
22	COST LESS BASE (line(17 - 21))		22.72581			
23	Revenue Tax Req Multiplier		1.0975			
24	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (22 x 23))		24.94158			
				SUMMARY OF		
				TOTAL GENERATION FACTOR, ¢/kWh		
				35	CNTRL STN + OTHER (line 24)	
					24.94158	
				36	DG (line 34)	
					-	
				37	TOTAL GENERATION FACTOR, ¢/kWh (lines 35 + 36)	
					24.94158	

MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION

ENERGY COST RECOVERY (ECR) FILING

ENERGY COST RECOVERY (ECR) FILING - August 1, 2021 (page 2 of 2)

Line

- 1 Effective Date August 1, 2021
- 2 Supercedes Factors of July 1, 2021

<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	3.51%
46	WEIGHTED COMP. PURCH. ENERGY COST, ¢/kWh (lines (44 x 45))	1.05300
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))	1.05300
51	Loss Factor	1.050
52	Revenue Tax Req Multiplier	1.0975
53	PURCHASED ENERGY FACTOR, ¢/kWh (lines (50 x 51 x 52))	1.21345

<u>Calculation of Monthly Fossil Fuel Cost Risk Sharing Component</u>		
Baseline Diesel		
54	Diesel \$, baseline month	\$492,321
55	Diesel mmbtu, baseline	29,347
56	Baseline Diesel, ¢/mmbtu	1,677.61
Month Diesel		
57	Diesel mmbtu, budget	34,660
58	Diesel Cost, ¢/mmbtu	2,178.77
59	Diesel ECRC Fossil Cost	\$755,163
60	Diesel Base ECRC Recovery Target	\$581,460
61	Diesel differential	\$173,703
62	Total Fossil	\$173,703
63	2% of above	\$3,474
64	Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year	\$12,960
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	\$3,474
70	Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month	\$16,434
71	Fossil Cost Risk Sharing before taxes	\$3,474
72	Revenue Tax Adjustment	1.097514
73	Fossil Cost Risk Sharing w/revenue tax	\$3,813
74	Forecasted Month MWh Sales	3,308
75	Fossil Fuel Cost Risk Sharing Component, ¢/kWh	-0.1153

Line **SYSTEM COMPOSITE CALCULATIONS**

76	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (lines (37 + 53))	26.15503
77	Adjustment, ¢/kWh	0.000
78	Fossil Fuel Cost Risk Sharing Component	(0.115)
79	ECR Reconciliation Adjustment	(0.771)
80	ECR FACTOR, ¢/kWh (lines (76 + 77 + 78 + 79))	25.269

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

MONTH END FUEL OIL ESTIMATE

<u>Miki Basin - ULSD</u>	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
7/21/2021	2,820.50	16,161.47	358,150.96
Estimated Use	1,926.19	11,037.07	235,782.69
Estimated Received	1,142.86	6,548.59	141,523.33
Estimated Additional	4,005.24	22,950.01	490,464.66
Estimated End	6,042.41	34,623.00	754,356.26

Next Month's Combined Miki Expense (\$/bbl) = \$ 124.8436 /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	\$ 124.8436	5.73 BTU/BBL	2,178.77

MAUI ELECTRIC COMPANY, LTD.
Lanai Division
ECR Reconciliation Adjustment

August 2021

1. Amount to be refunded	(\$69,700)
2. Monthly amount (1 / 3 X Line 1)	(\$23,233)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$25,499)
5. Estimated Sales (August 2021)	3,308 mwh
6. Adjustment (Line 4 ÷ Line 5)	-0.771 ¢/kwh

**MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION
2021 FUEL OIL ADJUSTMENT RECONCILIATION SUMMARY
(Thousand \$)**

<u>Line</u>	Without Deadband 2nd Quarter <u>YTD Total</u>	collection by <u>company*</u>	Basis for Recon With Deadband 2nd Quarter <u>YTD Total</u>	collection by <u>company*</u>
ACTUAL COSTS:				
1	Generation	\$3,374.1	\$3,374.1	
2	Distributed Generation	\$0.0	\$0.0	
3	Purch Power	<u>\$69.7</u>	<u>\$69.7</u>	
4	TOTAL	\$3,443.8	\$3,443.8	
FUEL FILING COST				
5	Generation	\$3,408.7	\$3,393.0	
6	Distributed Generation	\$0.0	\$0.0	
7	Purch Power	<u>\$69.7</u>	<u>\$69.7</u>	
8	TOTAL	\$3,478.5	\$3,462.7	
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)	\$3,478.5	\$3,462.7	
14	ACTUAL FOA LESS TAX	\$3,452.3	\$3,452.3	
15	FOA reconciliation adj for prior year	<u>-\$98.3</u>	<u>-\$98.3</u>	
16	ADJUSTED FOA LESS TAX	\$3,550.6	\$3,550.6	
17	FOA-(FUEL-BASE) (Line 16-13)	\$72.1 Over	\$87.9 Over	
ADJUSTMENTS				
18	Current year FOA accrual reversal	\$53.4	\$53.4	
19	Other prior year FOA	\$0.0	\$0.0	
20	Other	<u>\$0.0</u>	<u>\$0.0</u>	
21	2nd QUARTER FOA RECONCILIATION (Lines 17+18+19+20)	\$125.5 Over	\$141.3 Over	
21A	YTD Fossil Fuel Cost Risk Sharing Adjustment	<u>\$8.6</u>	<u>\$8.6</u>	
21B	Quarterly FOA Recon w/Fossil Risk Adj (Line 21 + Line 21A)	<u><u>\$134.1</u></u>	<u><u>\$149.9</u></u>	
22	1st Quarter FOA Reconciliation YTD		<u>\$80.2</u> Over	
23	FOA Reconciliation to be Refunded August 2021 to October 2021 (Line 22- 21B)		<u><u>-\$69.7</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, 2021 through June 30, 2021

	<u>Notes</u>	<u>YTD</u>
<u>Diesel</u>		
Diesel Efficiency Factor, BTU/kWh	f	10,810
Diesel Deadband Definition, +/- BTU/kWh	d	50
Diesel Portion of Recorded Sales, MWh	a	16,342
Diesel Consumption (Recorded), MMBTU	b	174,888
Diesel Efficiency Factor (Recorded), BTU/kWh	c = (b/a)*1000	10,702
Lower limit of Diesel Deadband, BTU/kWh	e = f-d	10,760
Higher limit of Diesel Deadband, BTU/kWh	g = f+d	10,860
Diesel Efficiency Factor for cost-recovery, BTU/kWh	h = c, e, or g	10,760

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

	2021	
	Without	With
	Deadband	Deadband
		AS FILED
	<u>Jan 1 - Jun 30</u>	<u>Jan 1 - Jun 30</u>
Diesel Portion of Recorded Sales, MWH	16,342	16,342
Diesel Sales Efficiency Factor (mmbtu/kwh)	0.01081	0.01076
Mmbtu adjusted for Sales Efficiency Factor	176,658	175,841
\$/mmbtu	<u>\$19,2956</u>	<u>\$19,2956</u>
TOTAL DIESEL \$000s TO BE RECOVERED	\$3,408.7	\$3,393.0
TOTAL GENERATION FUEL FILING COST, \$000s	\$3,408.7	\$3,393.0
TOTAL GENERATION BASE FUEL COST , \$000s	\$0.0	\$0.0
TOTAL GENERATION FUEL FILING COST, \$000s YTD	\$3,408.7	\$3,393.0
TOTAL GENERATION BASE FUEL COST, \$000s YTD	\$0.0	\$0.0

Fossil Fuel Cost Risk Sharing Mechanism, June 2021, Lanai

Jan-21, Baseline YTD Subject to Fossil Risk

		Jan-21, Baseline	YTD Subject to Fossil Risk
Diesel Fossil Fuel Cost Risk Sharing			
AA	MMBtu	29,347	174,888
BB	\$ cost, actuals	492,321	3,374,145
CC = BB / AA (Baseline Column)	Jan 2021 baseline \$/mmbtu	16.7760712	16.7760712
DD	Diesel Gen kWh		17,162,323
EE	Total kWh, Gen, Purch Pwr, DG		17,702,017
FF	Sales kWh		16,856,782
GG = (DD / EE) x FF	Diesel kWh-sales		16,342,857
HH	Target Heat Rate		10,810
II1	Upper limit w/deadband		10,860
II2	Lower limit w/deadband		10,760
II3	Calculated Heat Rate (YTD subject to fossil risk, before deadband)		10,702
II	Recovery Heat Rate (YTD subject to fossil risk, after deadband)		10,760
JJ = BB/AA (YTD Column)	Actual Cost \$/MMbtu		19.2931399
KK = CC x HH x GG / 1,000,000	Base Cost Recovery w/Target Heat Rate		\$2,963,766
LL = II x JJ x GG / 1,000,000	Fuel Filing Cost Recovery		\$3,392,682
MM = 2% x (LL-KK)	Diesel Cost Risk Sharing		\$8,578
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		\$8,578

**MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION
2021 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 '19					7,933	8,627	(7,003)
January '20					7,933	8,106	1,103
February	83,900	(4)	938	82,962	(27,967)	(28,222)	55,843
March					(27,967)	(27,038)	28,805
April					(27,967)	(21,694)	7,111
May	78,000	(1)	847	77,153	(26,000)	(28,250)	56,014
June					(26,000)	(27,227)	28,787
July					(26,000)	(29,208)	(421)
August	70,400	(2)	2,796	67,604	(23,467)	(22,814)	44,369
September					(23,467)	(18,781)	25,588
October					(23,467)	(21,969)	3,619
November	85,200	(3)	2,131	83,069	(28,400)	(25,719)	60,969
December					(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)		
August	69,700	(2)	4,721	64,979	(23,233)		

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		
	07-01-21	08-01-21	07-01-21	08-01-21	Difference
Base Rates					
effective date:	09/01/19	09/01/19			
Base Fuel/Energy Charge ¢/kWh	0.0000	0.0000	0.00	0.00	0.00
Non-fuel Energy Charge					
First 250 kWh per month ¢/kWh	12.3123	12.3123	30.78	30.78	0.00
Next 500 kWh per month ¢/kWh	14.8123	14.8123	22.22	22.22	0.00
Customer Charge \$	11.50	11.50	11.50	11.50	0.00
Total Base Charges			64.50	64.50	0.00
IRP Refund					
% on base	0.0000	0.0000	0.00	0.00	0.00
Revenue Balancing Rate Adjustment ¢/kWh	1.0242	1.0242	4.10	4.10	0.00
PBF Surcharge ¢/kWh	0.6478	0.6478	2.59	2.59	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
Energy Cost Recovery ¢/kWh	24.680	25.269	98.72	101.08	2.36
Green Infrastructure Fee \$	1.19	1.19	1.19	1.19	0.00
Avg Residential Bill at 400 kwh			171.10	173.46	

Increase (Decrease -)	2.36
% Change	1.38%

	Rate		Charge (\$) at 500 Kwh		
	07-01-21	08-01-21	07-01-21	08-01-21	Difference
Base Rates					
effective date:	09/01/19	09/01/19			
Base Fuel/Energy Charge ¢/kWh	0.0000	0.0000	0.00	0.00	0.00
Non-fuel Energy Charge					
First 250 kWh per month ¢/kWh	12.3123	12.3123	30.78	30.78	0.00
Next 500 kWh per month ¢/kWh	14.8123	14.8123	37.03	37.03	0.00
Customer Charge \$	11.50	11.50	11.50	11.50	0.00
Total Base Charges			79.31	79.31	0.00
IRP Refund					
% on base	0.0000	0.0000	0.00	0.00	0.00
Revenue Balancing Rate Adjustment ¢/kWh	1.0242	1.0242	5.12	5.12	0.00
PBF Surcharge ¢/kWh	0.6478	0.6478	3.24	3.24	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
Energy Cost Recovery ¢/kWh	24.680	25.269	123.40	126.35	2.95
Green Infrastructure Fee \$	1.19	1.19	1.19	1.19	0.00
Avg Residential Bill at 500 kwh			212.26	215.21	

Increase (Decrease -)	2.95
% Change	1.39%

**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 & COMMERCIAL</u>	<u>RESIDENTIAL BILL (\$)</u> <u>@ 400 KWH</u>	<u>@ 500 KWH</u>
January 1, 2019	-6.950	165.81	206.32
February 1, 2019	-8.789	158.45	197.12
March 1, 2019	-6.041	169.45	210.86
April 1, 2019	-6.801	166.07	206.63
May 1, 2019	-7.864	162.15	201.75
June 1, 2019	4.196	172.73	214.30
July 1, 2019	3.088	171.26	212.48
August 1, 2019	3.232	171.84	213.20
September 1, 2019	24.278	168.18	208.62
October 1, 2019	24.957	170.90	212.02
November 1, 2019	26.088	175.42	217.67
December 1, 2019	26.449	176.87	219.48
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

**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
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 - 03/31/19	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/18 - 08/22/18	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.8954 CENTS/KWH
07/01/18 - 06/30/19	RESID. PBF SURCHARGE ADJUSTMENT	0.4658 CENTS/KWH
07/01/18 - 12/31/18	GREEN INFRASTRUCTURE FEE	1.21 DOLLARS/MONTH
08/23/18 - 05/31/19	INTERIM RATE INCREASE 2018 TEST YEAR	6.36 PERCENT ON BASE
08/23/18 - 05/31/19	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.3183 CENTS/KWH
01/01/19 - 06/30/19	GREEN INFRASTRUCTURE FEE	1.35 DOLLARS/MONTH
04/01/19 - 04/30/19	SOLARSAVER ADJUSTMENT	-0.0855 CENTS/KWH
05/01/19 - 03/31/20	SOLARSAVER ADJUSTMENT	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	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/21	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.0242 CENTS/KWH
07/01/21	GREEN INFRASTRUCTURE FEE	1.19 DOLLARS/MONTH
07/01/21	RESID. PBF SURCHARGE ADJUSTMENT	0.6478 CENTS/KWH

~ Surcharges currently in effect are in bold.

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