



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.
MOLOKAI 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	3,031.43	2,661.77	(369.66)
DG Energy, ¢/kWh	0.00	0.00	0.00
Purchased Energy, ¢/kWh	21.80	21.80	0.00
<u>Residential Schedule "R"</u>			
Energy Cost Recovery, ¢/kWh	36.404	31.953	(4.451)
<u>Others - "G,J,P,F"</u>			
Energy Cost Recovery, ¢/kWh	36.404	31.953	(4.451)
<u>Residential Customer with</u>			
400 KWH Consumption, \$/Bill	227.52	209.71	(17.81)
500 KWH Consumption, \$/Bill	282.88	260.63	(22.25)

Supersedes Sheet Effective: 10/01/2022

MAUI ELECTRIC COMPANY, LTD.
MOLOKAI 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	October 1, 2022

GENERATION COMPONENT

CENTRAL STATION						DG ENERGY COMPONENT	
FUEL PRICES, ¢/mmbtu							
3	Industrial			0.00			
4	Diesel			2,661.77			
5	Other			0.00			
BTU MIX, %							
6	Industrial			0.00	23 COMPOSITE COST OF DG		
7	Diesel			100.00	ENERGY, ¢/kWh		0.000
8	Other			0.00	24 % Input to System kWh Mix		0.00
				<u>100.00</u>			
9	COMPOSITE COST OF GENERATION, CENTRAL STATION + OTHER ¢/mmbtu (Lines (3 x 6) + (4 x 7) + (5 x 8))			2,661.77	25 WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 23 x 24)		0.00000
10	% Input to System kWh Mix			99.99	26 BASE DG ENERGY COMP COST		0.000
EFFICIENCY FACTOR, mmbtu/kWh					27 Base % Input to System kWh Mix		0.00
	(A)	(B)	(C)	(D)	28 WEIGHTED BASE DG ENERGY COST, ¢/kWh (Line 26 x 27)		0.00000
		Eff Factor	Percent of Centri Stn +	Weighted	29 Cost Less Base (Line 25 - 28)		0.00000
	<u>Fuel Type</u>	<u>mmbtu/kwh</u>	<u>Other</u>	<u>Eff Factor</u>	30 Loss Factor		1.098
11	Industrial	0.000000	0.00	0.000000	31 Revenue Tax Req Multiplier		1.0975
12	Diesel	0.011127	100.00	0.011127	32 DG FACTOR, ¢/kWh (Line 29 x 30 x 31)		0.00000
13	Other	0.011127	0.00	0.000000			
	(Lines 11, 12, 13): Col(B) x Col(C) = Col(D)						
14	Weighted Efficiency Factor, mmbtu/kWh [lines 11(D) + 12(D) + 13(D)]			0.011127			
15	WEIGHTED COMPOSITE CENTRAL STATION + OTHER GENERATION COST, ¢/kWh (lines (9 x 10 x 14))			29.61346			
16	BASE CENTRAL STATION + OTHER GENERATION COST, ¢/mmbtu			0.00			
17	Base % Input to Sys kWh Mix			0.00			
18	Efficiency Factor, mmbtu/kwh			0.011127			
19	WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST ¢/kWh (lines (16 x 17 x 18))			0.00000			
20	COST LESS BASE (line(15 - 19))			29.61346	SUMMARY OF		
21	Revenue Tax Req Multiplier			1.0975	TOTAL GENERATION FACTOR, ¢/kWh		
22	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (20 x 21))			32.50077	33 CNTRL STN + OTHER (line 22)		32.50077
					34 DG (line 32)		0.00000
					35 TOTAL GENERATION FACTOR, ¢/kWh (lines 33 + 34)		32.50077

**MAUI ELECTRIC COMPANY, LTD.
MOLOKAI DIVISION
ENERGY COST RECOVERY (ECR) FILING**

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

Line	Effective Date	November 1, 2022
2	Supersedes Factors	October 1, 2022

Line	PURCHASED ENERGY COMPONENT	
	PURCHASED ENERGY PRICE, ¢/kWh - Fossil	
	PURCHASED ENERGY PRICE, ¢/kWh - Renewable	
36	Unused	0.000
37	CBRE	22.500
38	FIT	21.800
39		
40	Sch Q	0.000
	PURCHASED ENERGY KWH MIX, % - Fossil	
	PURCHASED ENERGY KWH MIX, % - Renewable	
41	Unused	0.00%
42	CBRE	0.00%
43	FIT	100.00%
44		
45	Sch Q	0.00%
45A	Fossil Purch. Energy %	0.00%
45B	Renewable Purch. Energy %	100.00%
45C	Comp. Cost, Fossil Purch. Energy, ¢/kWh	N/A
45D	Comp. Cost, Renewable Purch. Energy, ¢/kWh	21.800
46	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh (Lines (36 x 41) + (37 x 42) + (38 x 43) + (39 x 44))	21.800
47	% Input to System kWh Mix	0.01
48	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (lines (46 x 47))	0.00299
49	BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh	0.000
50	Base % Input to Sys kWh Mix	0.00
51	WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (lines (49 x 50))	0.00000
52	COST LESS BASE (lines (48 - 51))	0.00299
53	Loss Factor	1.098
54	Revenue Tax Req Multiplier	1.0975
55	PURCHASED ENERGY FACTOR, ¢/kWh (lines (52 x 53 x 54))	0.00360

Line	Calculation of Monthly Fossil Fuel Cost Risk Sharing Component	
	Baseline Diesel	
56	Diesel \$, baseline month	\$457,657
57	Diesel mmbtu, baseline	24,780
58	Baseline Diesel, c/mmbtu	1,846.89
	Month Diesel	
59	Diesel mmbtu, budget	25,635
60	Diesel Cost, ¢/mmbtu	2,661.77
61	Diesel ECRC Fossil Cost	\$682,357
62	Diesel Base ECRC Recovery Target	\$473,460
63	Diesel differential	\$208,897
64	Total Fossil	\$208,897
65	2% of above	\$4,178
66	Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year	\$31,500
67	Maximum Annual Cap (bi-directional)	\$31,500
68	Number of Days in year from implementation	365
69	Fossil Risk % Proration (based on 365 day year)	100.00%
70	Maximum Annual Cap (bi-directional) prorated	\$31,500
71	Applicable Monthly Fossil Fuel Cost Risk Sharing	\$0
72	Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month	\$31,500
73	Fossil Cost Risk Sharing before taxes	\$0
74	Revenue Tax Adjustment	1.097514
75	Fossil Cost Risk Sharing w/revenue tax	\$0
76	Forecasted Month MWh Sales	2,290
77	Fossil Fuel Cost Risk Sharing Component, ¢/kWh	0.0000

Line	SYSTEM COMPOSITE CALCULATIONS	
78	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (lines (35 + 55))	32.50437
79	Adjustment, ¢/kWh	0.000
80	Fossil Fuel Cost Risk Sharing Component	0.000
81	ECR Reconciliation Adjustment	(0.551)
82	ECR FACTOR, ¢/kWh (lines (78 + 79 + 80 + 81))	31.953

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

MONTH END FUEL OIL ESTIMATE

	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
10/19/2022	3,948.55	22,625.18	690,954.58
Estimated Use	1,958.69	11,223.29	340,226.41
Estimated Received	4,554.00	26,094.42	647,337.94
Estimated Additional	-	-	-
Estimated End	<u>6,543.86</u>	<u>37,496.31</u>	<u>998,066.11</u>

Next Months Expense = \$ 152.5195 /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	\$ 152.5195	5.73 BTU/BBL	2661.77

MAUI ELECTRIC COMPANY, LTD.
Molokai Division
ECR Reconciliation Adjustment

November 2022

1. Amount to be refunded	(\$34,500)
2. Monthly amount (1/3 x Line 1)	(\$11,500)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$12,621)
5. Estimated Sales (November 2022)	2,290 mwh
6. Adjustment (Line 4 ÷ Line 5)	-0.551 ¢/kwh

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

<u>Line</u>	<u>Description</u>	Without Deadband 3rd Quarter <u>YTD Total</u>	collection by company*	Basis for Recon With Deadband 3rd Quarter <u>YTD Total</u>
Actual Costs				
1	Generation	\$6,120.1		\$6,120.1
2	Distributed Generation	\$0.0		\$0.0
3	Purch Power	\$0.5		\$0.5
4	Total	\$6,120.6		\$6,120.6
Fuel Filing Cost				
5	Generation	\$6,092.2		\$6,108.6
6	Distributed Generation	\$0.0		\$0.0
7	Purch Power	\$0.5		\$0.5
8	Total	\$6,092.7		\$6,109.1
Base Fuel Cost				
9	Generation	\$0.0		\$0.0
10	Distributed Generation	\$0.0		\$0.0
11	Purch Power	\$0.0		\$0.0
12	Total	\$0.0		\$0.0
13	FUEL - BASE COST (Line 8-12)	\$6,092.7		\$6,109.1
14	ACTUAL FOA REVENUE LESS TAX	\$6,107.5		\$6,107.5
15	FOA reconciliation adj for prior years	-\$18.1		-\$18.1
16	ADJUSTED FOA LESS TAX	\$6,125.6		\$6,125.6
17	FOA-(FUEL-BASE) (Line 16-13)	\$32.9		\$16.5
ADJUSTMENTS				
18	Current year FOA accrual reversal	\$43.4		\$43.4
19	Other prior year FOA	\$0.0		\$0.0
20	Other	\$0.0		\$0.0
21	3rd QUARTER FOA RECONCILIATION (Lines 17+18+19+20)	\$76.3	Over	\$59.9
21A	YTD Fossil Fuel Cost Risk Sharing Adjustment	\$31.5		\$31.5
21B	Quarterly FOA Recon w/Fossil Risk Adj (Line 21 + Line 21A)	\$107.8		\$91.4
22	2nd Quarter FOA Reconciliation YTD			\$56.9
23	FOA Reconciliation to be Refunded November 2022 to January 2023 (Line 22- 21B)			-\$34.5

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

**MAUI ELECTRIC COMPANY, LTD.
MOLOKAI 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>Palaau Diesel</u>		
Palaau Diesel Efficiency Factor, BTU/kWh	f	11,127
Palaau Diesel Deadband Definition, +/- BTU/kWh	d	50
Palaau Diesel Portion of Recorded Sales, MWh	a	21,517
Palaau Diesel Consumption (Recorded), MMBTU	b	240,054
Palaau Diesel Efficiency Factor (Recorded), BTU/kWh	c = (b/a)*1000	11,157
Lower limit of Palaau Diesel Deadband, BTU/kWh	e = f-d	11,077
Higher limit of Palaau Diesel Deadband, BTU/kWh	g = f+d	11,177
Palaau Diesel Efficiency Factor for cost-recovery, BTU/kWh	h = c, e, or g	11,157

MAUI ELECTRIC COMPANY, LTD.
MOLOKAI 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>
<u>DIESEL FUEL FILING COST</u>		
Diesel Portion of Recorded Sales, MWH	21,517	21,517
Diesel Sales Efficiency Factor (mmbtu/kwh)	0.011127	0.011157
Mmbtu adjusted for Sales Efficiency Factor	239,417	240,063
\$/mmbtu	<u>\$25.4459</u>	<u>\$25.4459</u>
TOTAL DIESEL \$000s TO BE RECOVERED	\$6,092.2	\$6,108.6
TOTAL GENERATION FUEL FILING COST, \$000s	\$6,092.2	\$6,108.6
TOTAL GENERATION BASE FUEL COST , \$000s	\$0.0	\$0.0
TOTAL GENERATION FUEL FILING COST, \$000s YTD	\$6,092.2	\$6,108.6
TOTAL GENERATION BASE FUEL COST, \$000s YTD	\$0.0	\$0.0

Fossil Fuel Cost Risk Sharing Mechanism, September 2022, Molokai

Jan-22, Baseline

YTD Subject to Fossil Risk

Diesel Fossil Fuel Cost Risk Sharing			
AA	MMBtu	24,780	240,054
BB	\$ cost, actuals	457,657	6,120,106
CC = BB / AA (Baseline Column)	Jan 2022 baseline \$/mmbtu	18.4689423	18.4689423
DD	Diesel Gen kWh		23,858,400
EE	Total kWh, Gen, Purch Pwr, DG		23,930,747
FF	Sales kWh		21,581,887
GG = (DD / EE) x FF	Diesel kWh-sales		21,516,641
HH	Target Heat Rate		11,127
II1	Upper limit w/deadband		11,177
II2	Lower limit w/deadband		11,077
II3	Calculated Heat Rate (YTD subject to fossil risk, before deadband)		11,157
II	Recovery Heat Rate (YTD subject to fossil risk, after deadband)		11,157
JJ = BB/AA (YTD Column)	Actual Cost \$/MMbtu		25.4946896
KK = CC x HH x GG / 1,000,000	Base Cost Recovery w/Target Heat Rate		\$4,421,754
LL = II x JJ x GG / 1,000,000	Fuel Filing Cost Recovery		\$6,120,285
MM = 2% x (LL-KK)	Diesel Cost Risk Sharing		\$33,971
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.
MOLOKAI DIVISION
2022 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 '20					(233)	(252)	(32)
January '21					(233)	(241)	(273)
February	4,000	(4)	(258)	4,258	(1,333)	(1,290)	2,695
March					(1,333)	(1,302)	1,393
April					(1,333)	(1,311)	82
May	7,600	(1)	66	7,534	(2,533)	(2,667)	4,949
June					(2,533)	(2,707)	2,242
July					(2,533)	(2,630)	(388)
August	22,600	(2)	(286)	22,886	(7,533)	(7,735)	14,763
September					(7,533)	(7,613)	7,150
October					(7,533)	(7,699)	(549)
November	20,200	(3)	(379)	20,579	(6,733)	(7,024)	13,006
December					(6,733)	(6,702)	6,304
January '22					(6,733)	(6,879)	(575)
February	11,500	(4)	(426)	11,926	(3,833)	(3,909)	7,442
March					(3,833)	(3,831)	3,611
April					(3,833)	(3,991)	(380)
May	16,100	(1)	(220)	16,320	(5,367)	(6,014)	9,926
June					(5,367)	(5,428)	4,498
July					(5,367)	(5,680)	(1,182)
August	40,800	(2)	(866)	41,666	(13,600)	(14,372)	26,112
September					(13,600)	(13,983)	12,129
October					(13,600)		
November	34,500	(3)	(1,468)	35,968	(11,500)		

NOTES:

- Col(1): Quarterly FOA reconciliation amounts. (Refer to Attachment 20)
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.
Molokai 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 kWhr per month	¢/kWh	14.0459	14.0459	35.11	35.11
Next 500 kWhr per month	¢/kWh	16.6959	16.6959	25.04	25.04
Customer Charge	\$	11.50	11.50	11.50	11.50
Total Base Charges				71.65	71.65
IRP Refund	% on base	0.000	0.000	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
Refund of 2018 Interim	% on base	0.00	0.00	0.00	0.00
Purchased Power Adjustment	¢/kWh	0.0000	0.0000	0.00	0.00
Energy Cost Recovery	¢/kWh	36.404	31.953	145.62	127.81
Green Infrastructure Fee	\$	1.18	1.18	1.18	1.18
Avg Residential Bill at 400 kwh				227.52	209.71

Increase (Decrease -)	-17.81
% Change	-7.83%

	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 kWhr per month	¢/kWh	14.0459	14.0459	35.11	35.11
Next 500 kWhr per month	¢/kWh	16.6959	16.6959	41.74	41.74
Customer Charge	\$	11.50	11.50	11.50	11.50
Total Base Charges				88.35	88.35
IRP Refund	% on base	0.000	0.000	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
Refund of 2018 Interim	% on base	0.00	0.00	0.00	0.00
Purchased Power Adjustment	¢/kWh	0.0000	0.0000	0.00	0.00
Energy Cost Recovery	¢/kWh	36.404	31.953	182.02	159.77
Green Infrastructure Fee	\$	1.18	1.18	1.18	1.18
Avg Residential Bill at 500 kwh				282.88	260.63

Increase (Decrease -)	-22.25
% Change	-7.87%

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

<u>EFFECTIVE DATE</u>	FUEL FACTOR CENTS / KWH		RESIDENTIAL BILL (\$)	
	<u>RESIDENTIAL & COMMERCIAL</u>		<u>@ 400 KWH</u>	<u>@ 500 KWH</u>
January 1, 2020	18.533		153.75	190.67
February 1, 2020	21.165		164.02	203.51
March 1, 2020	21.967		167.23	207.52
April 1, 2020	19.555		157.34	195.16
May 1, 2020	18.231		151.00	187.24
June 1, 2020	12.810		127.13	157.40
July 1, 2020	10.471		118.42	146.53
August 1, 2020	12.013		125.55	155.44
September 1, 2020	14.463		135.41	167.76
October 1, 2020	10.877		121.03	149.78
November 1, 2020	14.096		132.92	164.65
December 1, 2020	13.337		129.89	160.86
January 1, 2021	14.116		133.06	164.81
February 1, 2021	16.108		141.03	174.77
March 1, 2021	15.163		137.25	170.05
April 1, 2021	17.823		147.71	183.13
May 1, 2021	18.313		149.85	185.80
June 1, 2021	17.544		149.53	185.38
July 1, 2021	18.749		154.53	191.65
August 1, 2021	21.572		165.82	205.76
September 1, 2021	19.433		157.26	195.07
October 1, 2021	20.326		160.83	199.53
November 1, 2021	20.133		160.06	198.57
December 1, 2021	20.186		160.27	198.83
January 1, 2022	21.781		170.50	211.61
February 1, 2022	23.569		177.66	220.55
March 1, 2022	24.300		180.58	224.20
April 1, 2022	25.193		184.02	228.51
May 1, 2022	30.431		205.10	254.86
June 1, 2022	34.241		218.92	272.14
July 1, 2022	39.900		241.50	300.36
August 1, 2022	40.687		244.65	304.30
September 1, 2022	32.195		210.68	261.84
October 1, 2022	36.404		227.52	282.88
November 1, 2022	31.953		209.71	260.63

**MAUI ELECTRIC COMPANY, LTD. -- Molokai 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	-2.00 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
08/01/19 - 08/31/19	PURCHASED POWER ADJUSTMENT	-0.7518 CENTS/KWH
09/01/19 - 09/30/19	PURCHASED POWER ADJUSTMENT	-0.7820 CENTS/KWH
10/01/19 - 10/31/19	PURCHASED POWER ADJUSTMENT	-0.7475 CENTS/KWH
11/01/19 - 11/30/19	PURCHASED POWER ADJUSTMENT	0.0692 CENTS/KWH
12/01/19 - 12/31/19	PURCHASED POWER ADJUSTMENT	0.0655 CENTS/KWH
01/01/20 - 01/31/20	PURCHASED POWER ADJUSTMENT	0.0648 CENTS/KWH
01/01/20 - 06/30/20	RESID. PBF SURCHARGE ADJUSTMENT	0.7437 CENTS/KWH
01/01/20 - 06/30/20	GREEN INFRASTRUCTURE FEE	1.25 DOLLARS/MONTH
02/01/20 - 04/30/20	PURCHASED POWER ADJUSTMENT	0.00 CENTS/KWH
04/01/20 - 04/30/20	SOLARSAVER ADJUSTMENT	-0.0592 CENTS/KWH
05/01/20 - 05/31/20	PURCHASED POWER ADJUSTMENT	-0.3200 CENTS/KWH
05/01/20 - 03/31/21	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/20 - 06/30/20	PURCHASED POWER ADJUSTMENT	-0.3325 CENTS/KWH
06/01/20 - 05/31/21	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.3383 CENTS/KWH
07/01/20 - 07/31/20	PURCHASED POWER ADJUSTMENT	0.0000 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
08/01/20 - 08/31/20	PURCHASED POWER ADJUSTMENT	0.2408 CENTS/KWH
09/01/20 - 09/30/20	PURCHASED POWER ADJUSTMENT	0.2542 CENTS/KWH
10/01/20 - 10/31/20	PURCHASED POWER ADJUSTMENT	0.2449 CENTS/KWH
11/01/20	PURCHASED POWER ADJUSTMENT	0.0000 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 - 06/30/22	RESID. PBF SURCHARGE ADJUSTMENT	0.6478 CENTS/KWH
07/01/21 - 12/31/21	GREEN INFRASTRUCTURE FEE	1.19 DOLLARS/MONTH
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.