



November 26, 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 December 2021

Maui Electric Company, Limited's ("Maui Electric" or "Company") December 2021 Energy Cost Recovery factor for our Maui Division is 17.109 cents per kilowatt-hour ("kWh"), a decrease of 1.910 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$170.52, a decrease of \$9.55 compared to rates effective November 1, 2021. The decrease in the typical residential bill is due to the decrease in the Energy Cost Recovery factor.

The Company's Maui Division fuel composite cost of generation, central station and other increased 186.790 cents per million BTU to 1,747.90 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy decreased 9.288 cents per kWh to 9.190 cents per kWh.

The Energy Cost Recovery factor for our Lāna'i Division for December 2021 is 29.254 cents per kWh, an increase of 0.063 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$189.40, an increase of \$0.26 compared to rates effective November 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 decreased 2.95 cents per million BTU to 2,529.62 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 December 2021 is 20.186 cents per kWh, an increase of 0.053 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$160.27, an increase of \$0.21 compared to rates effective November 1, 2021. The increase in the typical residential bill is due to the increase in the Energy Cost Recovery factor.

The Company's Moloka'i Division fuel composite cost of generation, central station and other increased 4.48 cents per million BTU to 1,689.20 cents per million BTU. The composite cost of

The Honorable Chair and Members
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November 26, 2021
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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 December 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.
MAUI DIVISION**

ENERGY COST RECOVERY FACTOR

	EFFECTIVE DATES		<u>Change</u>
	<u>11/01/2021</u>	<u>12/01/2021</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	1,561.11	1,747.90	186.790
DG Energy, ¢/kWh	0.00	0.00	0.000
Purchased Energy, ¢/kWh	18.478	9.190	(9.288)
<u>Residential Schedule "R"</u>			
Energy Cost Recovery Factor, ¢/kWh	19.019	17.109	(1.910)
<u>Others - "G,P,F"</u>			
Energy Cost Recovery Factor, ¢/kWh	19.019	17.109	(1.910)
<u>Residential Customer with</u>			
500 KWH Consumption, \$/Bill	180.07	170.52	(9.55)
600 KWH Consumption, \$/Bill	215.12	203.66	(11.46)

Supersedes Sheet Effective:

November 1, 2021

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

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

<u>Line</u>		
1	Effective Date	December 1, 2021
2	Supersedes Factors of	November 1, 2021

GENERATION COMPONENT

CENTRAL STATION					
FUEL PRICES, ¢/mmbtu					
3	Industrial			1,386.43	
4	Diesel			1,887.56	
5	Other				
BTU MIX, %					
6	Industrial			27.87%	
7	Diesel			72.13%	
8	Other			0.00%	
				100.00%	
9	COMPOSITE COST OF GENERATION, CENTRAL STATION + OTHER ¢/mmbtu (Lines (3 x 6) + (4 x 7) + (5 x 8))			1,747.90	
10	% Input to System kWh Mix			64.31%	
EFFICIENCY FACTOR, mmbtu/kWh					
	(A)	(B)	(C)	(D)	
			Percent of		
			Centrl Stn +		
			Other		
	Fuel Type	Eff Factor	Centrl Stn +	Weighted	
		mmbtu/kWh	Other	Eff Factor	
11	Industrial	0.015786	19.60	0.003094	
12	Diesel	0.009938	80.40	0.007990	
13	Other	0.011072	0.00	-	
(Lines 11, 12, 13): Col(B) x Col(C) = Col(D)					
14	Weighted Efficiency Factor, mmbtu/kWh [lines 11(D) + 12(D) + 13(D)]			0.011084	
15	WEIGHTED COMPOSITE CENTRAL STATION + OTHER GENERATION COST, ¢/kWh (lines (9 x 10 x 14))			12.45924	
16	BASE CENTRAL STATION + OTHER GENERATION COST, ¢/mmbtu			0.00	
17	Base % Input to Sys kWh Mix			0.00	
18	Efficiency Factor, mmbtu/kWh			0.011072	
19	WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST ¢/kWh (lines (16 x 17 x 18))			-	
20	COST LESS BASE (line(15 - 19))			12.45924	
21	Revenue Tax Req Multiplier			1.0975	
22	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (20 x 21))			13.67402	
				DG ENERGY COMPONENT	
23	COMPOSITE COST OF DG ENERGY, ¢/kWh			0.000	
24	% Input to System kWh Mix			0.00%	
25	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 23 x 24)			-	
26	BASE DG ENERGY COMP COST			0.000	
27	Base % Input to System kWh Mix			0.00	
28	WEIGHTED BASE DG ENERGY COST, ¢/kWh (Line 26 x 27)			0.00000	
29	Cost Less Base (Line 25 - 28)			0.00000	
30	Loss Factor			1.057	
31	Revenue Tax Req Multiplier			1.0975	
32	DG FACTOR, ¢/kWh (Line 29 x 30 x 31)			0.00000	
				SUMMARY OF	
				TOTAL GENERATION FACTOR, ¢/kWh	
33	CNTRL STN + OTHER (line 22)			13.67402	
34	DG (line 32)			-	
35	TOTAL GENERATION FACTOR, ¢/kWh (lines 33 + 34)			13.67402	

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

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

Line		
1	Effective Date	December 1, 2021
2	Supercedes Factors of	November 1, 2021

Line	PURCHASED ENERGY COMPONENT	
	PURCHASED ENERGY PRICE - FOSSIL ϕ /kWh	
	PURCHASED ENERGY PRICE - RENEWABLE, ϕ /kWh	
36	Kaheawa Wind I - On Peak	14.000
37	- Off Peak	13.126
38	Kaheawa Wind II	5.746
39	Sempra Wind	5.803
40	Unused - On Peak	0.000
41	- Off Peak	0.000
42	South Maui RR	11.060
43	Ku'ia Solar	11.060
44	Unused	0.000
45	Unused	0.000
46	CBRE PV	16.500
47		
48	FIT	22.490
	PURCHASED ENERGY KWH MIX- FOSSIL, %	
48A	Subtotal Fossil %	0%
	PURCHASED ENERGY KWH MIX - RENEWABLE, %	
49	Kaheawa Wind I - On Peak	22.25%
50	- Off Peak	15.68%
51	Kaheawa Wind II	29.06%
52	Sempra Wind - On Peak	29.20%
53	Unused - On Peak	0.00%
54	- Off Peak	0.00%
55	South Maui RR	0.91%
56	Ku'ia Solar	0.85%
57	Unused	0.00%
58	Unused	0.00%
59	CBRE PV	0.06%
60		
61	FIT	1.99%
61A	Subtotal Renewable %	100.00%
61B	Total Purchased Energy %	100.00%
61C	Composite Cost of Purchased Energy, Fossil	N/A
61D	Composite Cost of Purchased Energy, Renewable	9.190
62	COMPOSITE COST OF PURCHASED ENERGY, ϕ /kWh	9.190
	(Lines (36 x 49) + (37 x 50) + (38 x 51) + (39 x 52) + (40 x 53) + (41 x 54) + (42 x 55) + (43 x 56) + (44 x 57) + (45 x 58) + (46 x 59) + (48 x 61))	
63	% Input to System kWh Mix	35.69%
64	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ϕ /kWh (lines (62 x 63))	3.27991
65	BASE PURCHASED ENERGY COMPOSITE COST, ϕ /kWh	0.000
66	Base % Input to Sys kWh Mix	0.00
67	WEIGHTED BASE PURCHASED ENERGY COST, ϕ /kWh (lines (65 x 66))	0.00000
68	COST LESS BASE (lines (64 - 67))	3.27991
69	Loss Factor	1.057
70	Revenue Tax Req Multiplier	1.0975
71	PURCHASED ENERGY FACTOR, ϕ /kWh (lines (68 x 69 x 70))	3.80488

Line	Calculation of Monthly Fossil Fuel Cost Risk Sharing Component	
	Baseline IFO	
72	IFO \$, baseline month	\$1,504,934
73	IFO mmbtu, baseline	177,546
74	Baseline IFO, ϕ /mmbtu	847.63
	Baseline Diesel	
75	Diesel \$, baseline month	\$4,759,944
76	Diesel mmbtu, baseline	465,907
77	Baseline Diesel, ϕ /mmbtu	1021.65
	Month IFO	
78	IFO mmbtu, budget	169,132
79	IFO Cost, ϕ /mmbtu	1,386.43
80	IFO ECRC Fossil Cost	\$2,344,901
81	IFO Base ECRC Recovery Target	\$1,433,615
82	IFO differential	\$911,286
	Month Diesel	
83	Diesel mmbtu, budget	437,829
84	Diesel Cost, ϕ /mmbtu	1,887.56
85	Diesel ECRC Fossil Cost	\$8,264,285
86	Diesel Base ECRC Recovery Target	\$4,473,084
87	Diesel differential	\$3,791,201
88	Total Fossil	\$4,702,488
89	2% of above	\$94,050
90	Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year	\$489,420
91	Maximum Annual Cap (bi-directional)	\$570,000
92	Number of Days in year from implementation	365
93	Fossil Risk % Proration (based on 365 day year)	100.00%
94	Maximum Annual Cap (bi-directional) prorated	\$570,000
95	Applicable Monthly Fossil Fuel Cost Risk Sharing	\$80,580
96	Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month	\$570,000
97	Fossil Cost Risk Sharing before taxes	\$80,580
98	Revenue Tax Adjustment	1,097,514
99	Fossil Cost Risk Sharing w/revenue tax	\$88,437
100	Forecasted Month MWh Sales	82,688
101	Fossil Fuel Cost Risk Sharing Component, ϕ /kWh	-0.1070

Derivation of Non-Adjustable Component:		
102	Maalaea Biodiesel (\$000s)	\$511.3
103	Hana (\$000s)	\$19.2
104	Ignition Startup (\$000s)	\$37.6
	Total	\$568.1
	Final Settlement, MECO-602, p1 and MECO-603, p1	
105	Revenue Tax Adjustment	1,097,514
106	Non-Adj Revenues, \$000	\$623.5
107	2018 TY Sales, MWh	1,017,968
	Final Tariffs submitted 4/17/2019, Docket No. 2017-0150, Exhibit 2, Att 1, p361	
108	Non-Adj Revenues, ϕ /kWh	0.06125
109	Generation and Purchased Energy Factors	17.47890
110	ECR Reconciliation Adjustment	(0.324)
111	Non-Adjustable Component	0.0612
112	Fossil Fuel Cost Risk Sharing Component	-0.1070
113	ECR FACTOR, ϕ /kWh (lines (109 + 110 + 111 + 112))	17.109

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

Fuel Oil Inventory Prices for December 2021

<u>TYPE OF OIL BURNED</u>	<u>PRICES \$/BBL</u>	<u>CONVERSION FACTORS</u>		<u>PRICES ¢/MBTU</u>
INDUSTRIAL	87.3449	6.30	MBTU/BBL	1,386.43
DIESEL/ULSD	110.5211	5.86	MBTU/BBL	1,887.56

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

Month End Fuel Oil Estimate

<u>Kahului</u>	<u>Barrels</u>	<u>MBTU</u>	<u>(\$)</u>
11/18/2021	44,567.25	280,773.68	3,750,961.01
Estimated Use	15,521.85	97,787.64	1,253,377.59
Estimated Received	14,000.00	88,200.00	1,262,212.86
Estimated Additional	0.00	0.00	0.00
Estimated End	<u>43,045.40</u>	<u>271,186.04</u>	<u>3,759,796.28</u>

Next month's expense (\$/bbl) = \$ 87.3449

<u>Maalaea</u>	<u>Barrels</u>	<u>MBTU</u>	<u>(\$)</u>
11/18/2021	105,665.31	618,695.01	11,022,949.61
Estimated Use	45,984.87	269,252.13	4,443,600.95
Estimated Received	31,300.00	183,268.79	3,475,909.58
Estimated Additional	0.00	0.00	0.00
Estimated End	<u>90,980.44</u>	<u>532,711.67</u>	<u>10,055,258.24</u>

Next month's expense (\$/bbl) = \$ 110.5211

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

PURCHASED POWER PRICE CALCULATIONS

KAHEAWA WIND POWER ENERGY RATE:

Kaheawa Wind - On Peak, ¢/kWh	14.000
- Off Peak, ¢/kWh	13.126

Kaheawa Wind Energy Rate Calculations:

Percent of Energy Payment Rate:

Fixed energy payment rate	70%
Flat payment rate	<u>30%</u>
	<u>100%</u>

Fixed Energy Payment Rate (Table D-1) for 2021:

On-peak, ¢/kwh	10.571
Off-peak, ¢/kwh	9.323

Flat Payment Rate Per Docket No. 2011-0192 D&O 30331:

On-peak, ¢/kwh	22.000
Off-peak, ¢/kwh	22.000

On-Peak Rate = $10.5710 \text{ ¢/kwh} \times 0.7 + 22.000 \text{ ¢/kwh} \times 0.3 = 14 \text{ ¢/kwh}$

Off-Peak Rate = $9.323 \text{ ¢/kwh} \times 0.7 + 22.000 \text{ ¢/kwh} \times 0.3 = 13.126 \text{ ¢/kwh}$

MAUI ELECTRIC COMPANY, LTD.
Maui Division
ECR Reconciliation Adjustment
December 2021

1. Amount to be Refunded	(\$731,900)
2. Monthly amount (1 / 3 X Line 1)	(\$243,967)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$267,757)
5. Estimated Sales (December 2021)	82,688 mwh
6. Adjustmnet (Line 4 ÷ Line 5)	(0.324) ¢/kwh

MAUI ELECTRIC COMPANY, LTD.
MAUI DIVISION
2021 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 '19					(893,300)	(950,248)	696,893
January '20					(893,300)	(961,281)	(264,388)
February	1,031,400	(4)	(196,411)	1,227,811	(343,800)	(327,089)	636,334
March					(343,800)	(344,340)	291,994
April					(343,800)	(255,361)	36,633
May	554,800	(1)	(51,810)	606,610	(184,933)	(181,950)	461,293
June					(184,933)	(182,971)	278,322
July					(184,933)	(181,695)	96,627
August	1,311,800	(2)	93,384	1,218,416	(437,267)	(375,529)	939,514
September					(437,267)	(397,379)	542,135
October					(437,267)	(419,505)	122,630
November	(918,500)	(3)	104,864	(1,023,364)	306,167	303,207	(597,527)
December					306,167	296,112	(301,415)
January '21					306,167	307,102	5,687
February	1,455,500	(4)	4,747	1,450,753	(485,167)	(467,035)	989,405
March					(485,167)	(490,384)	499,021
April					(485,167)	(484,285)	14,736
May	401,000	(1)	13,850	387,150	(133,667)	(145,125)	256,761
June					(133,667)	(146,388)	110,373
July					(133,667)	(143,212)	(32,839)
August	1,210,000	(2)	(23,297)	1,233,297	(403,333)	(422,230)	778,228
September					(403,333)	(417,364)	360,864
October					(403,333)	(407,780)	(46,916)
November	731,900	(3)	(42,473)	774,373	(243,967)		
December					(243,967)		

NOTES:

- Col(1): Quarterly FOA reconciliation amounts. (Refer to Attachment 5)
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.
Maui Division
Calculations of the Average Residential Customer Bill

	Rate		Charge (\$) at 500 Kwh		
	11/01/21	12/01/21	11/01/21	12/01/21	Difference
Base Rates	effective date: 09/01/19	09/01/19			
Base Fuel/Energy Charge	¢/kWh	0.0000	0.00	0.00	0.00
Non-fuel Energy Charge					
First 350 kWh per month	¢/kWh	12.1240	42.43	42.43	0.00
Next 850 kWh per month	¢/kWh	14.3840	21.58	21.58	0.00
Customer Charge	\$	11.50	11.50	11.50	0.00
Total Base Charges			75.51	75.51	0.00
RBA Rate Adjustment	¢/kWh	1.0242	5.12	5.12	0.00
PBF Surcharge	¢/kWh	0.6478	3.24	3.24	0.00
SolarSaver Adjustment	¢/kWh	0.0000	0.00	0.00	0.00
Refund of 2018 Interim	% on Base	0.00	0.00	0.00	0.00
Purchased Power Adjustment	¢/kWh	-0.0107	-0.05	-0.05	0.00
Energy Cost Recovery	¢/kWh	19.019	95.10	85.55	-9.55
DSM Adjustment	¢/kWh	-0.0084	-0.04	-0.04	0.00
Green Infrastructure Fee	\$	1.19	1.19	1.19	0.00
Avg Residential Bill at 500 kwh			180.07	170.52	
			Increase (Decrease -)		-9.55
			% Change		-5.30%

	Rate		Charge (\$) at 600 Kwh		
	11/01/21	12/01/21	11/01/21	12/01/21	Difference
Base Rates	effective date: 09/01/19	09/01/19			
Base Fuel/Energy Charge	¢/kWh	0.0000	0.00	0.00	0.00
Non-fuel Energy Charge					
First 350 kWh per month	¢/kWh	12.1240	42.43	42.43	0.00
Next 850 kWh per month	¢/kWh	14.3840	35.96	35.96	0.00
Customer Charge	\$	11.50	11.50	11.50	0.00
Total Base Charges			89.89	89.89	0.00
RBA Rate Adjustment	¢/kWh	1.0242	6.15	6.15	0.00
PBF Surcharge	¢/kWh	0.6478	3.89	3.89	0.00
Renewable Energy Infrastructure Cost					
Recovery Provision	¢/kWh	0.0000	0.00	0.00	0.00
SolarSaver Adjustment	¢/kWh	0.0000	0.00	0.00	0.00
Refund of 2018 Interim	% on Base	0.00	0.00	0.00	0.00
Purchased Power Adjustment	¢/kWh	-0.0107	-0.06	-0.06	0.00
Energy Cost Recovery	¢/kWh	19.019	114.11	102.65	-11.46
DSM Adjustment	¢/kWh	-0.0084	-0.05	-0.05	0.00
Green Infrastructure Fee	\$	1.19	1.19	1.19	0.00
Avg Residential Bill at 600 kwh			215.12	203.66	
			Increase (Decrease -)		-11.46
			% Change		-5.33%

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

<u>EFFECTIVE DATE</u>	FUEL FACTOR	RESIDENTIAL BILL (\$)	
	<u>RESIDENTIAL & COMMERCIAL</u>	<u>@ 500 KWH</u>	<u>@ 600 KWH</u>
January 1, 2019	-3.405	174.77	209.33
February 1, 2019	-5.987	161.69	193.64
March 1, 2019	-5.839	162.44	194.54
April 1, 2019	-5.441	163.99	196.39
May 1, 2019	-4.041	171.40	205.29
June 1, 2019	3.899	179.76	214.71
July 1, 2019	3.059	178.60	213.35
August 1, 2019	2.938	178.02	212.67
September 1, 2019	18.068	173.77	207.57
October 1, 2019	17.098	168.93	201.76
November 1, 2019	17.061	168.70	201.48
December 1, 2019	16.191	164.37	196.28
January 1, 2020	16.751	168.57	201.30
February 1, 2020	17.482	172.82	206.40
March 1, 2020	17.800	174.41	208.31
April 1, 2020	17.503	172.62	206.17
May 1, 2020	16.260	166.06	198.28
June 1, 2020	15.145	157.82	188.40
July 1, 2020	14.702	154.77	184.77
August 1, 2020	13.780	149.70	178.68
September 1, 2020	13.659	149.08	177.94
October 1, 2020	13.390	147.74	176.34
November 1, 2020	13.830	150.47	179.61
December 1, 2020	14.923	155.93	186.17
January 1, 2021	14.967	156.21	186.48
February 1, 2021	14.338	153.34	183.04
March 1, 2021	16.168	162.49	194.03
April 1, 2021	16.378	163.32	195.01
May 1, 2021	17.615	170.84	204.05
June 1, 2021	17.873	175.55	209.70
July 1, 2021	19.391	183.27	218.98
August 1, 2021	18.648	178.15	212.83
September 1, 2021	18.578	177.77	212.38
October 1, 2021	18.225	176.02	210.28
November 1, 2021	19.019	180.07	215.12
December 1, 2021	17.109	170.52	203.66

MAUI ELECTRIC COMPANY, LTD. -- Maui 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 - 01/31/18	PURCHASED POWER ADJUSTMENT	-0.0060 CENTS/KWH
01/01/18 - 06/30/18	GREEN INFRASTRUCTURE FEE	1.3400 DOLLARS/MONTH
02/01/18 - 04/30/18	PURCHASED POWER ADJUSTMENT	0.0003 CENTS/KWH
04/01/18 - 04/30/18	SOLARSAVER ADJUSTMENT	-0.1278 CENTS/KWH
05/01/18 - 03/31/19	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
05/01/18 - 06/30/18	PURCHASED POWER ADJUSTMENT	0.0004 CENTS/KWH
06/01/18 - 08/22/18	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.8954 CENTS/KWH
07/01/18 - 07/31/18	PURCHASED POWER ADJUSTMENT	0.0003 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	1.2100 DOLLARS/MONTH
08/01/18 - 08/31/18	PURCHASED POWER ADJUSTMENT	-0.0618 CENTS/KWH
09/01/18 - 09/30/18	PURCHASED POWER ADJUSTMENT	-0.0635 CENTS/KWH
08/23/18 - 05/31/19	INTERIM RATE INCREASE 2018 TEST YEAR	7.42 PERCENT ON BASE
08/23/18 - 05/31/19	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.3183 CENTS/KWH
10/01/18 - 10/31/18	PURCHASED POWER ADJUSTMENT	-0.0602 CENTS/KWH
11/01/18 - 11/30/19	PURCHASED POWER ADJUSTMENT	0.0108 CENTS/KWH
12/01/18 - 12/31/18	PURCHASED POWER ADJUSTMENT	0.0099 CENTS/KWH
01/01/19 - 01/31/19	PURCHASED POWER ADJUSTMENT	0.0094 CENTS/KWH
01/01/19 - 06/30/19	GREEN INFRASTRUCTURE FEE	1.35 DOLLARS/MONTH
02/01/19 - 02/28/19	PURCHASED POWER ADJUSTMENT	-0.0241 CENTS/KWH
03/01/19 - 03/31/19	PURCHASED POWER ADJUSTMENT	-0.0224 CENTS/KWH
04/01/19 - 04/30/19	PURCHASED POWER ADJUSTMENT	-0.0244 CENTS/KWH
04/01/19 - 04/30/19	SOLARSAVER ADJUSTMENT	-0.0855 CENTS/KWH
05/01/19 - 05/31/19	PURCHASED POWER ADJUSTMENT	-0.0274 CENTS/KWH
5/1/2019 - 03/31/20	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/19 - 06/30/19	PURCHASED POWER ADJUSTMENT	-0.0067 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 - 07/31/19	PURCHASED POWER ADJUSTMENT	-0.0045 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	0.0023 CENTS/KWH
09/01/19 - 09/30/19	PURCHASED POWER ADJUSTMENT	0.0005 CENTS/KWH
10/01/19 - 10/31/19	PURCHASED POWER ADJUSTMENT	0.0023 CENTS/KWH
11/01/19 - 11/30/19	PURCHASED POWER ADJUSTMENT	-0.0063 CENTS/KWH
12/01/19 - 12/31/19	PURCHASED POWER ADJUSTMENT	-0.0047 CENTS/KWH
01/01/20 - 01/31/20	PURCHASED POWER ADJUSTMENT	-0.0069 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 - 02/29/20	PURCHASED POWER ADJUSTMENT	-0.0126 CENTS/KWH
02/01/20 - 04/30/20	RESID. DSM ADJUSTMENT	0.1268 CENTS/KWH
03/01/20 - 03/31/20	PURCHASED POWER ADJUSTMENT	-0.0127 CENTS/KWH
04/01/20 - 04/30/20	PURCHASED POWER ADJUSTMENT	-0.0138 CENTS/KWH
04/01/20 - 04/30/20	SOLARSAVER ADJUSTMENT	-0.0592 CENTS/KWH
05/01/20 - 03/31/21	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
05/01/20 - 05/31/20	PURCHASED POWER ADJUSTMENT	-0.0128 CENTS/KWH
05/01/20 - 07/31/20	RESID. DSM ADJUSTMENT	-0.0048 CENTS/KWH
06/01/20 - 06/30/20	PURCHASED POWER ADJUSTMENT	-0.0124 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	-0.0091 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 - 10/31/20	RESID. DSM ADJUSTMENT	-0.1104 CENTS/KWH
08/01/20 - 08/31/20	PURCHASED POWER ADJUSTMENT	0.0033 CENTS/KWH
09/01/20 - 09/30/20	PURCHASED POWER ADJUSTMENT	0.0016 CENTS/KWH
10/01/20 - 10/31/20	PURCHASED POWER ADJUSTMENT	0.0027 CENTS/KWH
11/01/20 - 11/30/20	PURCHASED POWER ADJUSTMENT	-0.0006 CENTS/KWH
11/01/20 - 01/31/21	RESID. DSM ADJUSTMENT	-0.0022 CENTS/KWH
12/01/20 - 12/31/20	PURCHASED POWER ADJUSTMENT	0.0001 CENTS/KWH
01/01/21 - 01/31/21	PURCHASED POWER ADJUSTMENT	-0.0013 CENTS/KWH
01/01/21 - 06/30/21	GREEN INFRASTRUCTURE FEE	1.25 DOLLARS/MONTH
02/01/21	RESID. DSM ADJUSTMENT	0.0563 CENTS/KWH
02/01/21 - 02/28/21	PURCHASED POWER ADJUSTMENT	-0.0042 CENTS/KWH
03/01/21 - 03/31/21	PURCHASED POWER ADJUSTMENT	-0.0030 CENTS/KWH
04/01/21 - 04/30/21	PURCHASED POWER ADJUSTMENT	-0.0044 CENTS/KWH
04/01/21 - 04/30/21	SOLARSAVER ADJUSTMENT	-0.0445 CENTS/KWH
05/01/21 - 07/31/21	RESID. DSM ADJUSTMENT	0.0658 CENTS/KWH
05/01/21	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
05/01/21 - 05/31/21	PURCHASED POWER ADJUSTMENT	0.2109 CENTS/KWH
06/01/21 - 06/30/21	PURCHASED POWER ADJUSTMENT	0.2076 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
07/01/21 - 07/31/21	PURCHASED POWER ADJUSTMENT	0.1862 CENTS/KWH
08/01/21 - 08/31/21	PURCHASED POWER ADJUSTMENT	-0.0296 CENTS/KWH
08/01/21 - 10/31/21	RESID. DSM ADJUSTMENT	0.0003 CENTS/KWH
09/01/21 - 09/30/21	PURCHASED POWER ADJUSTMENT	-0.0350 CENTS/KWH
10/01/21 - 10/31/21	PURCHASED POWER ADJUSTMENT	-0.0314 CENTS/KWH
11/01/21 - 11/30/21	PURCHASED POWER ADJUSTMENT	-0.0107 CENTS/KWH
11/01/21	RESID. DSM ADJUSTMENT	-0.0084 CENTS/KWH
12/01/21	PURCHASED POWER ADJUSTMENT	-0.0096 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.

**Maui Electric Company, Ltd. - Maui Division
Residential Bill at 500 kWh/Month Consumption**

