



June 26, 2020

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 July 2020

Maui Electric Company, Limited's ("Maui Electric" or "Company") July 2020 Energy Cost Recovery factor for our Maui Division is 14.702 cents per kilowatt-hour ("kWh"), a decrease of 0.443 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$154.77, a decrease of \$3.05 compared to rates effective June 1, 2020. The decrease in the typical residential bill is due to the decrease in the Energy Cost Recovery factor (-\$2.22), decrease in the Public Benefits Fund Surcharge (-\$0.78) and the decrease in the Green Infrastructure Fee (-\$0.06), partially offset by the increase in the Purchase Power Adjustment (+\$0.01).

The Company's Maui Division fuel composite cost of generation, central station and other decreased 0.670 cents per million BTU to 911.52 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy decreased 0.389 cents per kWh to 19.468 cents per kWh.

The Energy Cost Recovery factor for our Lāna'i Division for July 2020 is 16.335 cents per kWh, an increase of 0.906 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$134.73, an increase of \$2.94 compared to rates effective June 1, 2020. The increase in the typical residential bill is due to the increase in the Energy Cost Recovery factor (+\$3.62), partially offset by the decrease in the Green Infrastructure Fee (-\$0.06) and decrease in the Public Benefits Fund Surcharge (-\$0.62).

The Company's Lāna'i Division fuel composite cost of generation, central station and other increased 98.74 cents per million BTU to 1,384.24 cents per million BTU. The composite cost of 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 July 2020 is 10.471 cents per kWh, a decrease of 2.339 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$118.42, a decrease of \$8.71 compared to rates effective June 1, 2020. The decrease in the typical residential bill is due to the decrease in the Energy Cost Recovery factor (-\$9.36), decrease in the Public Benefits Fund Surcharge (-\$0.62) and

The Honorable Chair and Members  
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decrease in the Green Infrastructure Fee (-\$0.06), partially offset by the increase in the Purchase Power Adjustment (+\$1.33).

The Company's Moloka'i Division fuel composite cost of generation, central station and other decreased 195.56 cents per million BTU to 838.15 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy is 22.46 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 July 1, 2020.

Sincerely,

/s/ Sharon M. Suzuki  
Sharon M. Suzuki  
President  
Maui County and Hawai'i Island Utilities

Attachments

cc: Division of Consumer Advocacy

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

**ENERGY COST RECOVERY FACTOR**

	EFFECTIVE DATES		<u>Change</u>
	<u>06/01/2020</u>	<u>07/01/2020</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	912.19	911.52	(0.670)
DG Energy, ¢/kWh	0.00	0.00	0.000
Purchased Energy, ¢/kWh	19.857	19.468	(0.389)
<u>Residential Schedule "R"</u>			
Energy Cost Recovery Factor, ¢/kWh	15.145	14.702	(0.443)
<u>Others - "G.P.F"</u>			
Energy Cost Recovery Factor, ¢/kWh	15.145	14.702	(0.443)
<u>Residential Customer with</u>			
500 KWH Consumption, \$/Bill	157.82	154.77	(3.05)
600 KWH Consumption, \$/Bill	188.40	184.77	(3.63)

Supersedes Sheet Effective:

June 1, 2020

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

ENERGY COST RECOVERY (ECR) FILING - July 1, 2020 (page 1 of 2)

<u>Line</u>		
1	Effective Date	July 1, 2020
2	Supercedes Factors of	June 1, 2020

**GENERATION COMPONENT**

<b>CENTRAL STATION</b>						<b>DG ENERGY COMPONENT</b>	
FUEL PRICES, ¢/mmbtu							
3	Industrial			731.54			
4	Diesel			948.52			
5	Other						
BTU MIX, %							
6	Industrial			17.05%	23 COMPOSITE COST OF DG		
7	Diesel			82.95%	ENERGY, ¢/kWh	0.000	
8	Other			0.00%	24 % Input to System kWh Mix	0.00%	
				100.00%			
9	COMPOSITE COST OF GENERATION, CENTRAL STATION + OTHER ¢/mmbtu (Lines (3 x 6) + (4 x 7) + (5 x 8))			911.52	25 WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 23 x 24)	-	
10	% Input to System kWh Mix			64.78%	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	
			Percent of		29 Cost Less Base (Line 25 - 28)	0.00000	
			Centrl Stn +		30 Loss Factor	1.057	
	Fuel Type	Eff Factor	Other	Weighted	31 Revenue Tax Req Multiplier	1.0975	
		mmbtu/kwh		Eff Factor	32 DG FACTOR, ¢/kWh (Line 29 x 30 x 31)	0.00000	
11	Industrial	0.015786	11.18	0.001765			
12	Diesel	0.009938	88.82	0.008827			
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)]			0.010592			
15	WEIGHTED COMPOSITE CENTRAL STATION + OTHER GENERATION COST, ¢/kWh (lines (9 x 10 x 14))			6.25439			
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))			6.25439			
21	Revenue Tax Req Multiplier			1.0975			
22	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (20 x 21))			6.86419			
					SUMMARY OF		
					TOTAL GENERATION FACTOR, ¢/kWh		
					33 CNTRL STN + OTHER (line 22)	6.86419	
					34 DG (line 32)	-	
					35 TOTAL GENERATION FACTOR, ¢/kWh (lines 33 + 34)	6.86419	

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

ENERGY COST RECOVERY (ECR) FILING - July 1, 2020 (page 2 of 2)

Line	1 Effective Date	July 1, 2020
	2 Supercedes Factors of	June 1, 2020

Line	<b>PURCHASED ENERGY COMPONENT</b>	
	PURCHASED ENERGY PRICE - FOSSIL ¢/kWh	
	PURCHASED ENERGY PRICE - RENEWABLE, ¢/kWh	
36	Kaheawa Wind I - On Peak	13.891
37	- Off Peak	13.030
38	Kaheawa Wind II	26.069
39	Sempra Wind	22.530
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	22.59%
50	- Off Peak	18.06%
51	Kaheawa Wind II	24.64%
52	Sempra Wind - On Peak	29.49%
53	Unused - On Peak	0.00%
54	- Off Peak	0.00%
55	South Maui RR	1.16%
56	Ku'ia Solar	1.11%
57	Unused	0.00%
58	Unused	0.00%
59	CBRE PV	0.08%
60		
61	FIT	2.87%
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	19.468
62	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh	19.468
	(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	35.22%
64	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (lines (62 x 63))	6.85663
65	BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh	0.000
66	Base % Input to Sys kWh Mix	0.00
67	WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (lines (65 x 66))	0.00000
68	COST LESS BASE (lines (64 - 67))	6.85663
69	Loss Factor	1.057
70	Revenue Tax Req Multiplier	1.0975
71	PURCHASED ENERGY FACTOR, ¢/kWh (lines (68 x 69 x 70))	7.95409

Line	<b>Calculation of Monthly Fossil Fuel Cost Risk Sharing Component</b>	
	<b>Baseline IFO</b>	
72	IFO \$, baseline month	\$1,709,027
73	IFO mmbtu, baseline	193,384
74	Baseline IFO, ¢/mmbtu	883.75
	<b>Baseline Diesel</b>	
75	Diesel \$, baseline month	\$7,688,936
76	Diesel mmbtu, baseline	503,889
77	Baseline Diesel, ¢/mmbtu	1,525.92
	<b>Month IFO</b>	
78	IFO mmbtu, budget	108,362
79	IFO Cost, ¢/mmbtu	731.54
80	IFO ECRC Fossil Cost	\$792,714
81	IFO Base ECRC Recovery Target	\$957,651
82	IFO differential	-\$164,937
	<b>Month Diesel</b>	
83	Diesel mmbtu, budget	527,008
84	Diesel Cost, ¢/mmbtu	948.52
85	Diesel ECRC Fossil Cost	\$4,998,779
86	Diesel Base ECRC Recovery Target	\$8,041,725
87	Diesel differential	-\$3,042,946
88	Total Fossil	-\$3,207,884
89	2% of above	-\$64,158
90	Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year	-\$83,472
91	Maximum Annual Cap (bi-directional)	\$570,000
92	Number of Days in year from implementation	366
93	Fossil Risk % Proration (based on 366 day year)	100.00%
94	Maximum Annual Cap (bi-directional) prorated	\$570,000
95	Applicable Monthly Fossil Fuel Cost Risk Sharing	-\$64,158
96	Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month	-\$147,630
97	Fossil Cost Risk Sharing before taxes	-\$64,158
98	Revenue Tax Adjustment	1.097514
99	Fossil Cost Risk Sharing w/revenue tax	-\$70,414
100	Forecasted Month MWh Sales	74,944
101	Fossil Fuel Cost Risk Sharing Component, ¢/kWh	0.0940

<b>Derivation of Non-Adjustable Component:</b>		
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	1.097514
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, ¢/kWh	0.06125
109	Generation and Purchased Energy Factors	14.81828
110	ECR Reconciliation Adjustment	(0.271)
111	Non-Adjustable Component	0.0612
112	Fossil Fuel Cost Risk Sharing Component	0.0940
113	ECR FACTOR, ¢/kWh (lines (109 + 110 + 111 + 112))	14.702

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

**Fuel Oil Inventory Prices for July 2020**

<u>TYPE OF OIL BURNED</u>	<u>PRICES \$/BBL</u>	<u>CONVERSION FACTORS</u>		<u>PRICES ¢/MBTU</u>
INDUSTRIAL	46.0870	6.30	MBTU/BBL	731.54
DIESEL/ULSD	55.5231	5.85	MBTU/BBL	948.52

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

**Month End Fuel Oil Estimate**

<b><u>Kahului</u></b>	<u>Barrels</u>	<u>MBTU</u>	<u>(\$)</u>
6/18/2020	153,690.61	968,250.84	7,159,057.12
Estimated Use	8,149.60	51,342.45	376,357.43
Estimated Received	12,000.00	75,600.00	477,891.67
Estimated Additional	0.00	0.00	0.00
Estimated End	<u>157,541.01</u>	<u>992,508.39</u>	<u>7,260,591.36</u>

**Next month's expense (\$/bbl) = \$ 46.0870**

<b><u>Maalaea</u></b>	<u>Barrels</u>	<u>MBTU</u>	<u>(\$)</u>
6/18/2020	119,641.05	700,338.41	6,778,254.98
Estimated Use	19,752.59	115,625.01	1,111,946.41
Estimated Received	20,000.00	117,073.26	990,265.00
Estimated Additional	0.00	0.00	0.00
Estimated End	<u>119,888.46</u>	<u>701,786.66</u>	<u>6,656,573.57</u>

**Next month's expense (\$/bbl) = \$ 55.5231**

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

**Contract Prices effective June 1, 2020**

<u>TYPE OF OIL BURNED</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>
<b>INDUSTRIAL</b>		
Tax *	2.5974	41.23
Ocean Transportation	1.6196	25.71
Land Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.4000	6.35
<b>DIESEL</b>		
Tax *	3.2713	55.84
Ocean Transportation	1.6196	27.64
Land Transportation	0.9694	16.54
Storage	2.9635	50.57
Wharfage	0.4000	6.83

\* Tax includes HGET, Hawaii Use Tax, Liquid Fuel Tax, LUST tax, Environmental Response Tax, Customs Duty Fee, and Fed Oil Spill Recovery Fee

Note: Since these components are not accounted for separately in inventory, contract prices for the current month are being provided. Contract prices are considered accurate pending actual delivery of the fuel.

Reference: Decision and Order No. 16134, Docket No. 96-0040.



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

**PURCHASED POWER PRICE CALCULATIONS**

KAHEAWA WIND POWER ENERGY RATE:

Kaheawa Wind - On Peak, ¢/kWh	13.891
- Off Peak, ¢/kWh	13.030

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 2020:

On-peak, ¢/kwh	10.415
Off-peak, ¢/kwh	9.186

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

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

On-Peak Rate =  $10.4150 \text{ ¢/kwh} \times 0.7 + 22.000 \text{ ¢/kwh} \times 0.3 = 13.891 \text{ ¢/kwh}$

Off-Peak Rate =  $9.186 \text{ ¢/kwh} \times 0.7 + 22.000 \text{ ¢/kwh} \times 0.3 = 13.03 \text{ ¢/kwh}$

**MAUI ELECTRIC COMPANY, LTD.**  
**Maui Division**  
**ECR Reconciliation Adjustment**  
**July 2020**

1. Amount to be Refunded	(\$554,800)
2. Monthly amount (1 / 3 X Line 1)	(\$184,933)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$202,967)
5. Estimated Sales (July 2020)	74,944 mwh
6. Adjustmnet (Line 4 ÷ Line 5)	(0.271) ¢/kwh

**MAUI ELECTRIC COMPANY, LTD.  
MAUI DIVISION  
2020 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 '18					(327,700)	(323,073)	279,528
January '19					(327,700)	(345,025)	(65,497)
February	1,886,900	(4)	(48,178)	1,935,078	(628,967)	(587,149)	1,282,432
March					(628,967)	(591,146)	691,286
April					(628,967)	(657,008)	34,278
May	1,531,500	(1)	62,314	1,469,186	(510,500)	(538,146)	965,318
June					(510,500)	(580,323)	384,995
July					(510,500)	(585,791)	(200,796)
August	1,306,700	(2)	(125,510)	1,432,210	(435,567)	(484,194)	747,220
September					(435,567)	(495,890)	251,330
October					(435,567)	(480,697)	(229,367)
November	2,679,900	(3)	(184,241)	2,864,141	(893,300)	(987,633)	1,647,141
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)		
July					(184,933)		

## 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		
	06/01/20	07/01/20	06/01/20	07/01/20	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	0.00
Non-fuel Energy Charge					
First 350 kWh per month	¢/kWh 12.1240	12.1240	42.43	42.43	0.00
Next 850 kWh per month	¢/kWh 14.3840	14.3840	21.58	21.58	0.00
Customer Charge	\$ 11.50	11.50	11.50	11.50	0.00
<b>Total Base Charges</b>			75.51	75.51	0.00
<b>RBA Rate Adjustment</b>	¢/kWh 0.3383	0.3383	1.69	1.69	0.00
<b>PBF Surcharge</b>	¢/kWh 0.7437	0.5882	3.72	2.94	-0.78
<b>SolarSaver Adjustment</b>	¢/kWh 0.0000	0.0000	0.00	0.00	0.00
<b>Refund of 2018 Interim</b>	% on Base 0.00	0.00	0.00	0.00	0.00
<b>Purchased Power Adjustment</b>	¢/kWh -0.0124	-0.0091	-0.06	-0.05	0.01
<b>Energy Cost Recovery</b>	¢/kWh 15.145	14.702	75.73	73.51	-2.22
<b>DSM Adjustment</b>	¢/kWh -0.0048	-0.0048	-0.02	-0.02	0.00
<b>Green Infrastructure Fee</b>	\$ 1.25	1.19	1.25	1.19	-0.06
<b>Avg Residential Bill at 500 kwh</b>			157.82	154.77	
			Increase (Decrease -)		-3.05
			% Change		-1.93%

	Rate		Charge (\$) at 600 Kwh		
	06/01/20	07/01/20	06/01/20	07/01/20	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	0.00
Non-fuel Energy Charge					
First 350 kWh per month	¢/kWh 12.1240	12.1240	42.43	42.43	0.00
Next 850 kWh per month	¢/kWh 14.3840	14.3840	35.96	35.96	0.00
Customer Charge	\$ 11.50	11.50	11.50	11.50	0.00
<b>Total Base Charges</b>			89.89	89.89	0.00
<b>RBA Rate Adjustment</b>	¢/kWh 0.3383	0.3383	2.03	2.03	0.00
<b>PBF Surcharge</b>	¢/kWh 0.7437	0.5882	4.46	3.53	-0.93
<b>Renewable Energy Infrastructure Cost</b>					
<b>Recovery Provision</b>	¢/kWh 0.0000	0.0000	0.00	0.00	0.00
<b>SolarSaver Adjustment</b>	¢/kWh 0.0000	0.0000	0.00	0.00	0.00
<b>Refund of 2018 Interim</b>	% on Base 0.00	0.00	0.00	0.00	0.00
<b>Purchased Power Adjustment</b>	¢/kWh -0.0124	-0.0091	-0.07	-0.05	0.02
<b>Energy Cost Recovery</b>	¢/kWh 15.145	14.702	90.87	88.21	-2.66
<b>DSM Adjustment</b>	¢/kWh -0.0048	-0.0048	-0.03	-0.03	0.00
<b>Green Infrastructure Fee</b>	\$ 1.25	1.19	1.25	1.19	-0.06
<b>Avg Residential Bill at 600 kwh</b>			188.40	184.77	
			Increase (Decrease -)		-3.63
			% Change		-1.93%

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

<u>EFFECTIVE DATE</u>	<u>FUEL FACTOR</u> <u>CENTS / KWH</u>		<u>RESIDENTIAL BILL (\$)</u>	
	<u>RESIDENTIAL &amp; COMMERCIAL</u>		<u>@ 500 KWH</u>	<u>@ 600 KWH</u>
January 1, 2018	-6.115		154.28	184.75
February 1, 2018	-5.747		156.16	187.00
March 1, 2018	-4.402		162.88	195.07
April 1, 2018	-4.914		159.68	191.23
May 1, 2018	-4.510		162.34	194.42
June 1, 2018	-2.402		174.53	209.05
July 1, 2018	-1.259		180.32	216.01
August 1, 2018	-3.848		167.07	200.11
September 1, 2018	-3.445		174.06	208.51
October 1, 2018	-3.282		174.90	209.51
November 1, 2018	-2.358		179.87	215.47
December 1, 2018	-2.401		179.65	215.21
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

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

<u>EFFECTIVE DATE</u>	<u>DESCRIPTION OF SURCHARGE</u>	<u>RATE</u>
<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>
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
<b>06/01/19</b>	<b>FINAL RATE INCREASE (3.74%), DOCKET NO. 2017-0150 (2018 TEST YEAR)</b>	
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
<b>05/01/20</b>	<b>SOLARSAVER ADJUSTMENT</b>	<b>0.0000 CENTS/KWH</b>
05/01/20 - 05/31/20	PURCHASED POWER ADJUSTMENT	-0.0128 CENTS/KWH
<b>05/01/20</b>	<b>RESID. DSM ADJUSTMENT</b>	<b>-0.0048 CENTS/KWH</b>
06/01/20 - 06/30/20	PURCHASED POWER ADJUSTMENT	-0.0124 CENTS/KWH
<b>06/01/20</b>	<b>REVENUE BALANCING ACCOUNT RATE ADJUSTMENT</b>	<b>0.3383 CENTS/KWH</b>
<b>07/01/20</b>	<b>PURCHASED POWER ADJUSTMENT</b>	<b>-0.0091 CENTS/KWH</b>
<b>07/01/20</b>	<b>RESID. PBF SURCHARGE ADJUSTMENT</b>	<b>0.5882 CENTS/KWH</b>
<b>07/01/20</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.19 DOLLARS/MONTH</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.

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

