



April 28, 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 May 2020

Maui Electric Company, Limited's ("Maui Electric" or "Company") May 2020 Energy Cost Recovery factor for our Maui Division is 16.260 cents per kilowatt-hour ("kWh"), a decrease of 1.243 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$166.06, a decrease of \$6.56 compared to rates effective April 1, 2020. The decrease in the typical residential bill is due to the decrease in the Energy Cost Recovery Factor (-\$6.22) and decrease in the residential DSM Adjustment (-\$0.65), partially offset by the termination of the Solar Saver Adjustment (+\$0.30) and the increase in the Purchase Power Adjustment (+\$0.01).

The Company's Maui Division fuel composite cost of generation, central station and other decreased 179.34 cents per million BTU to 1,122.52 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy decreased 0.390 cents per kWh to 19.204 cents per kWh.

The Energy Cost Recovery factor for our Lāna'i Division for May 2020 is 18.958 cents per kWh, a decrease of 0.836 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$148.04, a decrease of \$3.11 compared to rates effective April 1, 2020. The decrease in the typical residential bill is due to the decrease of the Energy Cost Recovery Factor (-\$3.35), partially offset by the termination of the Solar Saver Adjustment (+\$0.24).

The Company's Lāna'i Division fuel composite cost of generation, central station and other decreased 84.55 cents per million BTU to 1,598.71 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 May 2020 is 18.231 cents per kWh, a decrease of 1.324 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$151.00, a decrease of \$6.34 compared to rates effective April 1, 2020. The decrease in the typical residential bill is due to the decrease of the

The Honorable Chair and Members
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Energy Cost Recovery Factor (-\$5.30), and decrease in the Purchase Power Adjustment (-\$1.28), partially offset by the termination of the Solar Saver Adjustment (+\$0.24).

The Company's Moloka'i Division fuel composite cost of generation, central station and other decreased 70.19 cents per million BTU to 1,487.98 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 May 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.
LANAI DIVISION**

ENERGY COST RECOVERY FACTOR

	EFFECTIVE DATES		<u>Change</u>
	<u>04-01-20</u>	<u>05-01-20</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	1,683.26	1,598.71	(84.55)
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	19.794	18.958	(0.836)
<u>Others - "G,P,F"</u>			
Energy Cost Recovery, ¢/kWh	19.794	18.958	(0.836)
<u>Residential Customer with</u>			
400 KWH Consumption, \$/Bill	151.15	148.04	(3.11)
500 KWH Consumption, \$/Bill	187.31	183.43	(3.88)

Supersedes Sheet Effective:

April 1, 2020

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

ENERGY COST RECOVERY (ECR) FILING

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

Line
1 Effective Date May 1, 2020
2 Supercedes Factors of April 1, 2020

GENERATION COMPONENT

CENTRAL STATION						DG ENERGY COMPONENT	
FUEL PRICES, ¢/mmbtu							
3	Industrial		0.00				
4	Diesel - Miki Basin		1,598.71				
5	Diesel - Manele Bay		2,005.04				
6	Other		0.00				
BTU MIX, %							
7	Industrial		0.00%	25	COMPOSITE COST OF DG ENERGY, ¢/kWh		0.000
8	Diesel - Miki Basin		100.00%				
9	Diesel - Manele Bay		0.00%	26	% Input to System kWh Mix		0.00%
10	Other		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))		1,598.71	27	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 25 x 26)		0.00000
12	% Input to System kWh Mix		93.15%	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
		Eff Factor	Percent of				
		mmbtu/kwh	Centrl Stn +				
	Fuel Type		Other	Weighted	31	Cost Less Base (Line 27 - 30)	0.00000
				Eff Factor	32	Loss Factor	1.0500
13	Industrial	0.000000	0.00	0.000000	33	Revenue Tax Req Multiplier	1.0975
14	Diesel	0.010872	100.00	0.010872	34	DG FACTOR,	
15	Other	0.010872	0.00	0.000000		¢/kWh (Line 31 x 32 x 33)	0.00000
	(Lines 13, 14, 15): Col(B) x Col(C) = Col(D)						
16	Weighted Efficiency Factor, mmbtu/kWh (lines 13(D) + 14(D) + 15(D))		0.010872				
17	WEIGHTED COMPOSITE CENTRAL STATION + OTHER GEN COST, ¢/kWh (lines (11 x 12 x 16))		16.19056				
18	BASE CENTRAL STATION + OTHER GENERATION COST, ¢/mmbtu		-				
19	Base % Input to Sys kWh Mix		0.00%				
20	Efficiency Factor, mmbtu/kwh		0.010872				
21	WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST ¢/kWh (lines (18 x 19 x 20))		-				
22	COST LESS BASE (line(17 - 21))		16.19056		SUMMARY OF		
23	Revenue Tax Req Multiplier		1.0975		TOTAL GENERATION FACTOR, ¢/kWh		
24	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (22 x 23))		17.76914		35	CNTRL STN + OTHER (line 24)	17.76914
					36	DG (line 34)	-
					37	TOTAL GENERATION FACTOR, ¢/kWh (lines 35 + 36)	17.76914

MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION

ENERGY COST RECOVERY (ECR) FILING

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

Line

1 Effective Date May 1, 2020
2 Supercedes Factors of April 1, 2020

<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	6.85%
46	WEIGHTED COMP. PURCH. ENERGY COST, ¢/kWh (lines (44 x 45))	2.05500
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))	2.05500
51	Loss Factor	1.050
52	Revenue Tax Req Multiplier	1.0975
53	PURCHASED ENERGY FACTOR, ¢/kWh (lines (50 x 51 x 52))	2.36813

Calculation of Monthly Fossil Fuel Cost Risk Sharing Component		
Baseline Diesel		
54	Diesel \$, baseline month	\$616,461
55	Diesel mmbtu, baseline	30,215
56	Baseline Diesel, c/mmbtu	2,040.28
Month Diesel		
57	Diesel mmbtu, budget	28,757
58	Diesel Cost, ¢/mmbtu	1,598.71
59	Diesel ECRC Fossil Cost	\$459,737
60	Diesel Base ECRC Recovery Target	\$586,718
61	Diesel differential	-\$126,981
62	Total Fossil	-\$126,981
63	2% of above	-\$2,540
64	Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year	-\$2,115
65	Maximum Annual Cap (bi-directional)	\$31,500
66	Number of Days in year from implementation	366
67	Fossil Risk % Proration (based on 366 day year)	100.00%
68	Maximum Annual Cap (bi-directional) prorated	\$31,500
69	Applicable Monthly Fossil Fuel Cost Risk Sharing	-\$2,540
70	Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month	-\$4,655
71	Fossil Cost Risk Sharing before taxes	-\$2,540
72	Revenue Tax Adjustment	1.097514
73	Fossil Cost Risk Sharing w/revenue tax	-\$2,787
74	Forecasted Month MWh Sales	2,183
75	Fossil Fuel Cost Risk Sharing Component, ¢/kWh	0.1277

Line **SYSTEM COMPOSITE CALCULATIONS**

76	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (lines (37 + 53))	20.13727
77	Adjustment, ¢/kWh	0.000
78	Fossil Fuel Cost Risk Sharing Component	0.128
79	ECR Reconciliation Adjustment	(1.307)
80	ECR FACTOR, ¢/kWh (lines (76 + 77 + 78 + 79))	18.958

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

MONTH END FUEL OIL ESTIMATE

<u>Miki Basin - ULSD</u>	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
4/17/2020	4,355.14	24,955.01	446,173.67
Estimated Use	1,690.02	9,683.81	163,003.78
Estimated Received	1,714.29	9,822.88	130,541.64
Estimated Additional	454.79	2,605.92	29,130.28
Estimated End	4,834.20	27,700.00	442,841.81

Next Month's Combined Miki Expense (\$/bbl) = \$ 91.6060 /bbl

<u>Manele CHP</u>	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
4/17/2020	160.67	920.64	19,525.57
Estimated Use	(0.02)	(0.11)	(2.25)
Estimated Received	-	-	-
Estimated Additional	23.78	136.25	1,665.55
Estimated End	184.47	1,057.00	21,193.38

Next Month's Manele Expense (\$/bbl) = \$ 114.8890 /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	\$ 91.6060	5.73 BTU/BBL	1,598.71
Diesel - Manele Bay	\$ 114.8890	5.73 BTU/BBL	2,005.04

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

Contract Prices effective April 1, 2020

<u>TYPE OF OIL BURNED</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>
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MIKI BASIN - ULTRA LOW SULFUR DIESEL (DYED)

Tax *	1.6020	27.95
Ocean Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.0000	0.00

MIKI BASIN - ULTRA LOW SULFUR DIESEL

Tax *	15.0492	262.64
Ocean Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.0000	0.00

MANELE BAY - ULTRA LOW SULFUR DIESEL

Tax *	15.0492	262.64
Ocean Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.0000	0.00

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

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.
Lanai Division
ECR Reconciliation Adjustment

May 2020

1. Amount to be refunded	(\$78,000)
2. Monthly amount (1 / 3 X Line 1)	(\$26,000)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$28,535)
5. Estimated Sales (May 2020)	2,183 mwh
6. Adjustment (Line 4 ÷ Line 5)	-1.307 ¢/kwh

**MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION
2020 FUEL OIL ADJUSTMENT RECONCILIATION SUMMARY
(Thousand \$)**

<u>Line</u>	Without Deadband 1st Quarter <u>YTD Total</u>	collection by <u>company*</u>	Basis for Recon With Deadband 1st Quarter <u>YTD Total</u>	collection by <u>company*</u>
ACTUAL COSTS:				
1	Generation	\$1,751.7	\$1,751.7	
2	Distributed Generation	\$0.0	\$0.0	
3	Purch Power	<u>\$29.9</u>	<u>\$29.9</u>	
4	TOTAL	\$1,781.6	\$1,781.6	
FUEL FILING COST				
5	Generation	\$1,788.8	\$1,780.6	
6	Distributed Generation	\$0.0	\$0.0	
7	Purch Power	<u>\$29.9</u>	<u>\$29.9</u>	
8	TOTAL	\$1,818.7	\$1,810.5	
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)	\$1,818.7	\$1,810.5	
14	ACTUAL FOA LESS TAX	\$1,840.5	\$1,840.5	
15	FOA reconciliation adj for prior year	<u>-\$48.1</u>	<u>-\$48.1</u>	
16	ADJUSTED FOA LESS TAX	\$1,888.6	\$1,888.6	
17	FOA-(FUEL-BASE) (Line 16-13)	\$69.9 Over	\$78.1 Over	
ADJUSTMENTS				
18	Current year FOA accrual reversal	\$0.0	\$0.0	
19	Other prior year FOA	\$0.0	\$0.0	
20	Other	<u>\$0.0</u>	<u>\$0.0</u>	
21	1st QUARTER FOA RECONCILIATION (Lines 17+18+19+20)	\$69.9 Over	\$78.1 Over	
21A	Fossil Fuel Cost Risk Sharing Adjustment	<u>-\$0.2</u>	<u>-\$0.2</u>	
21B	Quarterly FOA RECONCILIATION w/Fossil Risk Adjustment	<u><u>\$69.7</u></u>	<u><u>\$78.0</u></u>	
22	2019 QUARTERLY FOA Reconciliation Recognized in FOA Rates		<u>\$0.0</u>	
23	FOA Reconciliation to be Refunded May 2020 to July 2020 (Line 22- 21B)		<u><u>-\$78.0</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, 2020 through March 31, 2020

	<u>Notes</u>	<u>YTD</u>
<u>Diesel</u>		
Diesel Efficiency Factor, BTU/kWh	f	10,872
Diesel Deadband Definition, +/- BTU/kWh	d	50
Diesel Portion of Recorded Sales, MWh	a	8,060
Diesel Consumption (Recorded), MMBTU	b	85,840
Diesel Efficiency Factor (Recorded), BTU/kWh	c = (b/a)*1000	10,650
Lower limit of Diesel Deadband, BTU/kWh	e = f-d	10,822
Higher limit of Diesel Deadband, BTU/kWh	g = f+d	10,922
Diesel Efficiency Factor for cost-recovery, BTU/kWh	h = c, e, or g	10,822

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

	2020	
	Without Deadband	With Deadband AS FILED
	<u>Jan 1 - Mar 31</u>	<u>Jan 1 - Mar 31</u>
Diesel Portion of Recorded Sales, MWH	8,060	8,060
Diesel Sales Efficiency Factor (mmbtu/kwh)	0.010872	0.010822
Mmbtu adjusted for Sales Efficiency Factor	87,632	87,228
\$/mmbtu	<u>\$20.4126</u>	<u>\$20.4126</u>
TOTAL DIESEL \$000s TO BE RECOVERED	\$1,788.8	\$1,780.6
TOTAL GENERATION FUEL FILING COST, \$000s	\$1,788.8	\$1,780.6
TOTAL GENERATION BASE FUEL COST , \$000s	\$0.0	\$0.0
TOTAL GENERATION FUEL FILING COST, \$000s YTD	\$1,788.8	\$1,780.6
TOTAL GENERATION BASE FUEL COST, \$000s YTD	\$0.0	\$0.0

Fossil Fuel Cost Risk Sharing Mechanism, March 2020, Lanai

		Jan-20, Baseline	YTD Subject to Fossil Risk
	Diesel Fossil Fuel Cost Risk Sharing		
AA	MMBtu	30,215	85,840
BB	\$ cost, actuals	616,461	1,751,743
CC = BB / AA (Baseline Column)	Jan 2020 baseline \$/mmbtu	20.4028093	20.4028093
DD	Diesel Gen kWh		8,445,986
EE	Total kWh, Gen, Purch Pwr, DG		8,698,140
FF	Sales kWh		8,300,246
GG = (DD / EE) x FF	Diesel kWh-sales		8,059,627
HH	Target Heat Rate		10,872
II1	Upper limit w/deadband		10,922
II2	Lower limit w/deadband		10,822
II3	Calculated Heat Rate (YTD subject to fossil risk, before deadband)		10,650
II	Recovery Heat Rate (YTD subject to fossil risk, after deadband)		10,822
JJ = BB/AA (YTD Column)	Actual Cost \$/MMbtu		20.4071462
KK = CC x HH x GG / 1,000,000	Base Cost Recovery w/Target Heat Rate		\$1,787,781
LL = II x JJ x GG / 1,000,000	Fuel Filing Cost Recovery		\$1,779,937
MM = 2% x (LL-KK)	Diesel Cost Risk Sharing		-\$157
NN	Annual Cap (non-prorated)		\$31,500
OO	# Days		366
PP	Annual Cap (pro-rated)		\$31,500
QQ = MM, up to cap	Total Fossil Fuel Cost Risk Sharing Adjustment, subject to ±\$31500 cap		-\$157

**MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION
2020 Cumulative Reconciliation Balance**

<u>Month</u>	<u>(1)</u> YTD FOA Reconciliation	<u>Qtr</u>	<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
December '18					(11,867)	(11,797)	11,475
January '19					(11,867)	(11,150)	325
February	8,600	(4)	(386)	8,986	(2,867)	(2,721)	6,590
March					(2,867)	(2,728)	3,862
April					(2,867)	(2,599)	1,263
May	91,900	(1)	1,002	90,898	(30,633)	(28,551)	63,610
June					(30,633)	(30,812)	32,798
July					(30,633)	(30,931)	1,867
August	(13,000)	(2)	2,171	(15,171)	4,333	4,372	(8,932)
September					4,333	4,343	(4,589)
October					4,333	4,291	(298)
November	(23,800)	(3)	(249)	(23,551)	7,933	8,219	(15,630)
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)		
May	78,000	(1)	847	77,153	(26,000)		

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		
	04-01-20	05-01-20	04-01-20	05-01-20	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	0.00
IRP Refund	% on base	0.0000	0.0000	0.00	0.00
Revenue Balancing Rate Adjustment	¢/kWh	0.8716	0.8716	3.49	3.49
PBF Surcharge	¢/kWh	0.7437	0.7437	2.97	2.97
Renewable Energy Infrastructure Cost Recovery Provision	¢/kWh	0.0000	0.0000	0.00	0.00
SolarSaver Adjustment	¢/kWh	-0.0592	0.0000	-0.24	0.00
Refund of 2018 Interim	% on Base	0.00	0.00	0.00	0.00
Energy Cost Recovery	¢/kWh	19.794	18.958	79.18	75.83
Green Infrastructure Fee	\$	1.25	1.25	1.25	1.25
Avg Residential Bill at 400 kwh			151.15	148.04	
			Increase (Decrease -)		-3.11
			% Change		-2.06%

	Rate		Charge (\$) at 500 Kwh		
	04-01-20	05-01-20	04-01-20	05-01-20	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	0.00
IRP Refund	% on base	0.0000	0.0000	0.00	0.00
Revenue Balancing Rate Adjustment	¢/kWh	0.8716	0.8716	4.36	4.36
PBF Surcharge	¢/kWh	0.7437	0.7437	3.72	3.72
Renewable Energy Infrastructure Cost Recovery Provision	¢/kWh	0.0000	0.0000	0.00	0.00
SolarSaver Adjustment	¢/kWh	-0.0592	0.0000	-0.30	0.00
Refund of 2018 Interim	% on Base	0.00	0.00	0.00	0.00
Energy Cost Recovery	¢/kWh	19.794	18.958	98.97	94.79
Green Infrastructure Fee	\$	1.25	1.25	1.25	1.25
Avg Residential Bill at 500 kwh			187.31	183.43	
			Increase (Decrease -)		-3.88
			% Change		-2.07%

**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, 2018	-8.358	153.69	191.20
February 1, 2018	-8.395	153.54	191.01
March 1, 2018	-7.868	155.65	193.65
April 1, 2018	-9.141	150.05	186.64
May 1, 2018	-7.716	156.26	194.41
June 1, 2018	-6.144	163.86	203.92
July 1, 2018	-5.753	165.46	205.95
August 1, 2018	-7.005	160.45	199.69
September 1, 2018	-6.735	166.53	207.25
October 1, 2018	-6.372	167.98	209.07
November 1, 2018	-6.037	169.32	210.74
December 1, 2018	-5.396	171.89	213.95
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

**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	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	RESID. PBF SURCHARGE ADJUSTMENT	0.7437 CENTS/KWH
01/01/20	GREEN INFRASTRUCTURE FEE	1.25 DOLLARS/MONTH
04/01/20-4/30/20	SOLARSAVER ADJUSTMENT	-0.0592 CENTS/KWH
05/01/20	SOLARSAVER ADJUSTMENT	0.0000 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.