



June 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 July 2021

Maui Electric Company, Limited's ("Maui Electric" or "Company") July 2021 Energy Cost Recovery factor for our Maui Division is 19.391 cents per kilowatt-hour ("kWh"), an increase of 1.518 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$183.27, an increase of \$7.72 compared to rates effective June 1, 2021. The increase in the typical residential bill is due to the increase in the Energy Cost Recovery factor (+\$7.59) and increase in the Public Benefits Fund Surcharge (+\$0.30), partially offset by a decrease in the Purchase Power Adjustment (-\$0.11) and decrease in the Green Infrastructure Fee (-\$0.06).

The Company's Maui Division fuel composite cost of generation, central station and other increased 59.760 cents per million BTU to 1,395.90 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy decreased 0.569 cents per kWh to 20.151 cents per kWh.

The Energy Cost Recovery factor for our Lāna'i Division for July 2021 is 24.680 cents per kWh, an increase of 0.884 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$171.10, an increase of \$3.72 compared to rates effective June 1, 2021. The increase in the typical residential bill is due to the increase in the Energy Cost Recovery factor (+\$3.54) and increase in the Public Benefits Fund Surcharge (+\$0.24), partially offset by a decrease in the Green Infrastructure Fee (-\$0.06).

The Company's Lāna'i Division fuel composite cost of generation, central station and other increased 71.59 cents per million BTU to 2,136.28 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 July 2021 is 18.749 cents per kWh, an increase of 1.205 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$154.53, an increase of \$5.00 compared to rates effective June 1, 2021. The increase in the typical residential bill is due to the increase in the Energy Cost Recovery (+\$4.82) and increase in the Public Benefits Fund Surcharge (+\$0.24), partially offset by a decrease in the Green Infrastructure Fee (-\$0.06).

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The Company's Moloka'i Division fuel composite cost of generation, central station and other increased 99.95 cents per million BTU to 1,552.31 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 July 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>06-01-21</u>	<u>07-01-21</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	2,064.69	2,136.28	71.59
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	23.796	24.680	0.884
<u>Others - "G,P,F"</u>			
Energy Cost Recovery, ¢/kWh	23.796	24.680	0.884
<u>Residential Customer with</u>			
400 KWH Consumption, \$/Bill	167.38	171.10	3.72
500 KWH Consumption, \$/Bill	207.60	212.26	4.66

Supersedes Sheet Effective:

June 1, 2021

MAUI ELECTRIC COMPANY, LTD.  
LANAI DIVISION

ENERGY COST RECOVERY (ECR) FILING

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

Line

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

**GENERATION COMPONENT**

CENTRAL STATION				DG ENERGY COMPONENT		
FUEL PRICES, ¢/mmbtu						
3	Industrial		0.00			
4	Diesel - Miki Basin		2,136.28			
5						
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						
10	Other		0.00%	26 % Input to System kWh Mix	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))		2,136.28	27 WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 25 x 26)	0.00000	
12	% Input to System kWh Mix		95.99%	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
	Fuel Type	Eff Factor mmbtu/kwh	Percent of Centrl Stn + Other	Weighted Eff Factor	31 Cost Less Base (Line 27 - 30)	0.00000
13	Industrial	0.000000	0.00	0.000000	32 Loss Factor	1.0500
14	Diesel	0.010810	100.00	0.010810	33 Revenue Tax Req Multiplier	1.0975
15	Other	0.010810	0.00	0.000000	34 DG FACTOR, ¢/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))		0.010810			
17	WEIGHTED COMPOSITE CENTRAL STATION + OTHER GEN COST, ¢/kWh (lines (11 x 12 x 16))		22.16715			
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))		22.16715	SUMMARY OF TOTAL GENERATION FACTOR, ¢/kWh		
23	Revenue Tax Req Multiplier		1.0975	35 CNTRL STN + OTHER (line 24)	24.32845	
24	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (22 x 23))		24.32845	36 DG (line 34)	-	
				37 TOTAL GENERATION FACTOR, ¢/kWh (lines 35 + 36)	24.32845	

MAUI ELECTRIC COMPANY, LTD.  
LANAI DIVISION

ENERGY COST RECOVERY (ECR) FILING

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

Line

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

<u>Line</u>	<b>PURCHASED ENERGY COMPONENT</b>	
	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	4.01%
46	WEIGHTED COMP. PURCH. ENERGY COST, ¢/kWh (lines (44 x 45))	1.20300
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))	1.20300
51	Loss Factor	1.050
52	Revenue Tax Req Multiplier	1.0975
53	PURCHASED ENERGY FACTOR, ¢/kWh (lines (50 x 51 x 52))	1.38631

<b>Calculation of Monthly Fossil Fuel Cost Risk Sharing Component</b>		
<b>Baseline Diesel</b>		
54	Diesel \$, baseline month	\$492,321
55	Diesel mmbtu, baseline	29,347
56	Baseline Diesel, ¢/mmbtu	1,677.61
<b>Month Diesel</b>		
57	Diesel mmbtu, budget	36,482
58	Diesel Cost, ¢/mmbtu	2,136.28
59	Diesel ECRC Fossil Cost	\$779,351
60	Diesel Base ECRC Recovery Target	\$612,019
61	Diesel differential	\$167,332
62	Total Fossil	\$167,332
63	2% of above	\$3,347
64	Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year	\$9,613
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	\$3,347
70	Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month	\$12,960
71	Fossil Cost Risk Sharing before taxes	\$3,347
72	Revenue Tax Adjustment	1,097.514
73	Fossil Cost Risk Sharing w/revenue tax	\$3,673
74	Forecasted Month MWh Sales	3,188
75	Fossil Fuel Cost Risk Sharing Component, ¢/kWh	-0.1152

Line **SYSTEM COMPOSITE CALCULATIONS**

76	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (lines (37 + 53))	25.71476
77	Adjustment, ¢/kWh	0.000
78	Fossil Fuel Cost Risk Sharing Component	(0.115)
79	ECR Reconciliation Adjustment	(0.920)
80	ECR FACTOR, ¢/kWh (lines (76 + 77 + 78 + 79))	24.680

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

**MONTH END FUEL OIL ESTIMATE**

<u>Miki Basin - ULSD</u>	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
6/18/2021	3,814.31	21,856.00	467,362.50
Estimated Use	2,080.67	11,922.24	246,157.28
Estimated Received	2,285.71	13,097.12	278,872.62
Estimated Additional	2,330.21	13,352.12	277,164.64
Estimated End	6,349.56	36,383.00	777,242.48

Next Month's Combined Miki Expense (\$/bbl) = \$ 122.4089 /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	\$ 122.4089	5.73 BTU/BBL	2,136.28

**MAUI ELECTRIC COMPANY, LTD.**  
**Lanai Division**  
**ECR Reconciliation Adjustment**

**July 2021**

1. Amount to be refunded	(\$80,200)
2. Monthly amount (1 / 3 X Line 1)	(\$26,733)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$29,340)
5. Estimated Sales (July 2021)	3,188 mwh
6. Adjustment (Line 4 ÷ Line 5)	-0.920 ¢/kwh

**MAUI ELECTRIC COMPANY, LTD.  
LANAI DIVISION  
2021 Cumulative Reconciliation Balance**

<u>Month</u>	(1) <u>YTD FOA</u> <u>Reconciliation</u>	(2) <u>Adjust</u> <u>Qtr</u> <u>Variance</u>	(3) <u>FOA Rec</u> <u>Less</u> <u>Variance</u>	(4) <u>Try to</u> <u>Collect</u>	(5) <u>Actual</u> <u>Collect</u>	(6) <u>Month-end</u> <u>Cumulative</u> <u>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)
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)
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)
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)
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)
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)
June				(26,733)		56,587
July				(26,733)		

## 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  
FUEL OIL ADJUSTMENT FACTOR DATA**

<u>EFFECTIVE DATE</u>	<u>FUEL FACTOR</u> <u>CENTS / KWH</u>		
	<u>RESIDENTIAL &amp; 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

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

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
<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 - 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
<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 - 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
<b>05/01/21</b>	<b>SOLARSAVER ADJUSTMENT</b>	<b>0.0000 CENTS/KWH</b>
<b>06/01/21</b>	<b>REVENUE BALANCING ACCOUNT RATE ADJUSTMENT</b>	<b>1.0242 CENTS/KWH</b>
<b>07/01/21</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.19 DOLLARS/MONTH</b>
<b>07/01/21</b>	<b>RESID. PBF SURCHARGE ADJUSTMENT</b>	<b>0.6478 CENTS/KWH</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.