



March 29, 2023

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 April 2023

Maui Electric Company, Limited's ("Maui Electric" or "Company") April 2023 Energy Cost Recovery factor for our Maui Division is 24.536 cents per kilowatt-hour ("kWh"), a decrease of 0.919 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$212.37, a decrease of \$4.61 compared to rates effective March 1, 2023. The decrease in the typical residential bill is due to the decrease in the Energy Cost Recovery factor (-\$4.59) and Solar Saver Adjustment credit (-\$0.02).

The Company's Maui Division fuel composite cost of generation, central station and other decreased 125.490 cents per million BTU to 2,084.50 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy increased 0.687 cents per kWh to 20.403 cents per kWh.

The Energy Cost Recovery factor for our Lāna'i Division for April 2023 is 33.234 cents per kWh, a decrease of 1.427 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$208.87, a decrease of \$5.72 compared to rates effective March 1, 2023. The decrease in the typical residential bill is due to the decrease in the Energy Cost Recovery factor (-\$5.70) and Solar Saver Adjustment credit (-\$0.02).

The Company's Lāna'i Division fuel composite cost of generation, central station and other decreased 128.06 cents per million BTU to 2,883.35 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 April 2023 is 29.562 cents per kWh, a decrease of 4.410 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$201.33, a decrease of \$17.66 compared to rates effective March 1, 2023. The decrease in the typical residential bill is due to the decrease in the Energy Cost Recovery (-\$17.64) and Solar Saver Adjustment credit (-\$0.02).

The Company's Moloka'i Division fuel composite cost of generation, central station and other decreased 368.57 cents per million BTU to 2,411.82 cents per million BTU. The composite cost

The Honorable Chair and Members  
of the Hawai'i Public Utilities Commission  
March 29, 2023  
Page 2

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 April 1, 2023.

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>3/01/2023</u>	<u>4/01/2023</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	3,011.41	2,883.35	(128.06)
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	34.661	33.234	(1.427)
<u>Others - "G,J,P,F"</u>			
Energy Cost Recovery, ¢/kWh	34.661	33.234	(1.427)
<u>Residential Customer with</u>			
400 KWH Consumption, \$/Bill	214.59	208.87	(5.72)
500 KWH Consumption, \$/Bill	266.61	259.45	(7.16)

Supersedes Sheet Effective:

3/01/2023



MAUI ELECTRIC COMPANY, LTD.  
LANAI DIVISION

ENERGY COST RECOVERY (ECR) FILING

ENERGY COST RECOVERY (ECR) FILING - April 1, 2023 (page 2 of 2)

Line

- 1 Effective Date April 1, 2023
- 2 Supercedes Factors of March 1, 2023

<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	3.79%
46	WEIGHTED COMP. PURCH. ENERGY COST, ¢/kWh (lines (44 x 45))	1.13700
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))	1.13700
51	Loss Factor	1.050
52	Revenue Tax Req Multiplier	1.0975
53	PURCHASED ENERGY FACTOR, ¢/kWh (lines (50 x 51 x 52))	1.31025

<b>Calculation of Monthly Fossil Fuel Cost Risk Sharing Component</b>		
<b>Baseline Diesel</b>		
54	Diesel \$, baseline month	\$936,167
55	Diesel mmbtu, baseline	30,062
56	Baseline Diesel, ¢/mmbtu	3,114.12
<b>Month Diesel</b>		
57	Diesel mmbtu, budget	28,502
58	Diesel Cost, ¢/mmbtu	2,883.35
59	Diesel ECRC Fossil Cost	\$821,823
60	Diesel Base ECRC Recovery Target	\$887,597
61	Diesel differential	-\$65,774
62	Total Fossil	-\$65,774
63	2% of above	-\$1,315
64	Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year	-\$469
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	-\$1,315
70	Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month	-\$1,784
71	Fossil Cost Risk Sharing before taxes	-\$1,315
72	Revenue Tax Adjustment	1.097514
73	Fossil Cost Risk Sharing w/revenue tax	-\$1,444
74	Forecasted Month MWh Sales	2,763
75	Fossil Fuel Cost Risk Sharing Component, ¢/kWh	0.0522

Line **SYSTEM COMPOSITE CALCULATIONS**

76	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (lines (37 + 53))	33.95384
77	Adjustment, ¢/kWh	0.000
78	Fossil Fuel Cost Risk Sharing Component	0.052
79	ECR Reconciliation Adjustment	(0.772)
80	ECR FACTOR, ¢/kWh (lines (76 + 77 + 78 + 79))	33.234

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

**MONTH END FUEL OIL ESTIMATE**

<b><u>Miki Basin - ULSD</u></b>	<b><u>Barrels</u></b>	<b><u>MBTU</u></b>	<b><u>\$</u></b>
3/22/2023	5,037.95	28,867.45	841,870.57
Estimated Use	1,519.31	8,705.65	262,162.70
Estimated Received	1,428.57	8,185.71	237,650.33
Estimated Additional	-	-	-
Estimated End	4,947.21	28,347.51	817,358.20

Next Month's Combined Miki Expense (\$/bbl) = \$ 165.2160 /bbl

**FUEL OIL INVENTORY PRICE USED FOR FILING**

<b><u>Type of Oil Burned</u></b>	<b><u>Price</u></b>	<b><u>Conversion Factor</u></b>	<b><u>Prices ¢/MBTU</u></b>
Diesel - Miki Basin	\$ 165.2160	5.73 BTU/BBL	2,883.35

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

**April 2023**

1. Amount to be refunded	(\$58,300)
2. Monthly amount (1 / 3 X Line 1)	(\$19,433)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$21,328)
5. Estimated Sales (April 2023)	2,763 mwh
6. Adjustment (Line 4 ÷ Line 5)	-0.772 ¢/kwh

**MAUI ELECTRIC COMPANY, LTD.  
LANAI DIVISION  
2023 Cumulative Reconciliation Balance**

<u>Month</u>	(1) <u>YTD FOA Reconciliation</u>	<u>Qtr</u>	(2) <u>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 '21					(22,367)	(20,800)	27,810
January '22					(22,367)	(20,722)	7,088
February	55,600	(4)	5,451	50,149	(18,533)	(16,329)	40,908
March					(18,533)	(18,196)	22,712
April					(18,533)	(17,076)	5,636
May	68,500	(1)	4,186	64,314	(22,833)	(23,687)	46,263
June					(22,833)	(22,948)	23,315
July					(22,833)	(22,368)	947
August	55,300	(2)	488	54,812	(18,433)	(17,864)	37,895
September					(18,433)	(17,494)	20,401
October					(18,433)	(18,331)	2,070
November	58,900	(3)	1,973	56,927	(19,633)	(18,575)	40,422
December					(19,633)	(18,053)	22,369
January '23					(19,633)	(20,368)	2,001
February	58,300	(4)	2,740	55,560	(19,433)	(19,178)	38,383
March					(19,433)		
April					(19,433)		

## 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		
	3/01/23	4/01/23	3/01/23	4/01/23	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
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
<b>Total Base Charges</b>				64.50	64.50
<b>IRP Refund</b>	% on base	0.0000	0.0000	0.00	0.00
<b>Revenue Balancing Rate Adjustment</b>	¢/kWh	1.9048	1.9048	7.62	7.62
<b>PBF Surcharge</b>	¢/kWh	0.6488	0.6488	2.60	2.60
<b>Renewable Energy Infrastructure Cost</b>					
<b>Recovery Provision</b>	¢/kWh	0.0000	0.0000	0.00	0.00
<b>SolarSaver Adjustment</b>	¢/kWh	0.0000	-0.0038	0.00	-0.02
<b>Energy Cost Recovery</b>	¢/kWh	34.661	33.234	138.64	132.94
<b>Green Infrastructure Fee</b>	\$	1.23	1.23	1.23	1.23
<b>Avg Residential Bill at 400 kwh</b>				214.59	208.87

Increase (Decrease -)	-5.72
% Change	-2.67%

	Rate		Charge (\$) at 500 Kwh		
	3/01/23	4/01/23	3/01/23	4/01/23	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
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
<b>Total Base Charges</b>				79.31	79.31
<b>IRP Refund</b>	% on base	0.0000	0.0000	0.00	0.00
<b>Revenue Balancing Rate Adjustment</b>	¢/kWh	1.9048	1.9048	9.52	9.52
<b>PBF Surcharge</b>	¢/kWh	0.6488	0.6488	3.24	3.24
<b>Renewable Energy Infrastructure Cost</b>					
<b>Recovery Provision</b>	¢/kWh	0.0000	0.0000	0.00	0.00
<b>SolarSaver Adjustment</b>	¢/kWh	0.0000	-0.0038	0.00	-0.02
<b>Energy Cost Recovery</b>	¢/kWh	34.661	33.234	173.31	166.17
<b>Green Infrastructure Fee</b>	\$	1.23	1.23	1.23	1.23
<b>Avg Residential Bill at 500 kwh</b>				266.61	259.45

Increase (Decrease -)	-7.16
% Change	-2.69%

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

<u>EFFECTIVE DATE</u>	<u>FUEL FACTOR CENTS / KWH</u>		
	<u>RESIDENTIAL &amp; COMMERCIAL</u>	<u>RESIDENTIAL BILL (\$) @ 400 KWH</u>	<u>RESIDENTIAL BILL (\$) @ 500 KWH</u>
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
August 1, 2021	25.269	173.46	215.21
September 1, 2021	25.345	173.76	215.59
October 1, 2021	24.342	169.75	210.57
November 1, 2021	29.191	189.14	234.82
December 1, 2021	29.254	189.40	235.13
January 1, 2022	28.241	189.19	234.87
February 1, 2022	28.361	189.67	235.47
March 1, 2022	31.445	202.01	250.89
April 1, 2022	33.341	209.46	260.21
May 1, 2022	37.529	226.35	281.31
June 1, 2022	41.508	240.84	299.43
July 1, 2022	43.106	247.17	307.35
August 1, 2022	43.083	247.08	307.24
September 1, 2022	37.630	225.27	279.97
October 1, 2022	37.815	226.01	280.90
November 1, 2022	37.960	226.59	281.62
December 1, 2022	38.346	228.13	283.55
January 1, 2023	36.114	220.41	273.87
February 1, 2023	36.012	220.00	273.36
March 1, 2023	34.661	214.59	266.61
April 1, 2023	33.234	208.87	259.45

**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>
<b>06/01/19</b>	<b>FINAL RATE INCREASE (3.74%), DOCKET NO. 2017-0150 (2018 TEST YEAR)</b>	
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
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 - 12/31/21	GREEN INFRASTRUCTURE FEE	1.19 DOLLARS/MONTH
07/01/21 - 06/30/22	RESID. PBF SURCHARGE ADJUSTMENT	0.6478 CENTS/KWH
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 - 03/31/23	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/22 - 12/31/22	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.6175 <b>CENTS/KWH</b>
<b>07/01/22</b>	<b>RESID. PBF SURCHARGE ADJUSTMENT</b>	<b>0.6488 CENTS/KWH</b>
07/01/22 - 12/31/22	GREEN INFRASTRUCTURE FEE	1.18 DOLLARS/MONTH
<b>01/01/23</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.23 DOLLARS/MONTH</b>
<b>01/01/23</b>	<b>REVENUE BALANCING ACCOUNT RATE ADJUSTMENT</b>	<b>1.9048 CENTS/KWH</b>
<b>04/01/23</b>	<b>SOLARSAVER ADJUSTMENT</b>	<b>-0.0038 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.