



August 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 September 2023

Maui Electric Company, Limited's ("Maui Electric" or "Company") September 2023 Energy Cost Recovery factor for our Maui Division is 22.664 cents per kilowatt-hour ("kWh"), an increase of 0.682 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$203.77, an increase of \$3.39 compared to rates effective August 1, 2023. The increase in the typical residential bill is due to the increase in the Energy Cost Recovery factor (+\$3.41) partially offset by the decrease in the impact of the RBA Rate Adjustment (-\$0.01) and the decrease in the Purchase Power Adjustment (-\$0.01).

The Company's Maui Division fuel composite cost of generation, central station and other increased 59.170 cents per million BTU to 1,908.74 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy decreased 0.260 cents per kWh to 20.214 cents per kWh.

The Energy Cost Recovery factor for our Lāna'i Division for September 2023 is 32.757 cents per kWh, an increase of 4.765 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$207.73, an increase of \$19.06 compared to rates effective August 1, 2023. 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 increased 424.69 cents per million BTU to 2,921.39 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 September 2023 is 27.414 cents per kWh, an increase of 2.680 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$194.36, an increase of \$10.72 compared to rates effective August 1, 2023. The increase in the typical residential bill is due to the increase in the Energy Cost Recovery factor.

The Honorable Chair and Members
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The Company's Moloka'i Division fuel composite cost of generation, central station and other increased 228.08 cents per million BTU to 2,292.12 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 September 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>8/01/2023</u>	<u>9/01/2023</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	2,496.70	2,921.39	424.69
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	27.992	32.757	4.765
<u>Others - "G,J,P,F"</u>			
Energy Cost Recovery, ¢/kWh	27.992	32.757	4.765
<u>Residential Customer with</u>			
400 KWH Consumption, \$/Bill	188.67	207.73	19.06
500 KWH Consumption, \$/Bill	234.04	257.87	23.83

Supersedes Sheet Effective:

8/01/2023

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

ENERGY COST RECOVERY (ECR) FILING

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

Line

1 Effective Date September 1, 2023
2 Supercedes Factors of August 1, 2023

GENERATION COMPONENT

CENTRAL STATION						DG ENERGY COMPONENT		
FUEL PRICES, ¢/mmbtu								
3	Industrial		0.00					
4	Diesel - Miki Basin		2,921.39					
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%	26	% Input to System kWh Mix		0.00%	
9				27	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 25 x 26)		0.00000	
10	Other		0.00%	28	BASE DG ENERGY COMP COST		0.000	
			100.00%	29	Base % Input to System kWh Mix		0.00%	
11	COMPOSITE COST OF GENERATION, CENTRAL STATION + OTHER ¢/mmbtu (Lines (3 x 7) + (4 x 8) + (5 x 9) + (6 x 10))		2,921.39	30	WEIGHTED BASE DG ENERGY COST, ¢/kWh (Line 28 x 29)		0.00000	
12	% Input to System kWh Mix		98.66%	31	Cost Less Base (Line 27 - 30)		0.00000	
EFFICIENCY FACTOR, mmbtu/kWh								
	(A)	(B)	(C)	(D)				
			Percent of	Weighted				
	Fuel Type	Eff Factor	Centrl Stn +	Eff Factor				
		mmbtu/kwh	Other					
13	Industrial	0.000000	0.00	0.000000	32	Loss Factor	1.0500	
14	Diesel	0.010722	100.00	0.010722	33	Revenue Tax Req Multiplier	1.0975	
15	Other	0.010722	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))]		0.010722					
17	WEIGHTED COMPOSITE CENTRAL STATION + OTHER GEN COST, ¢/kWh (lines (11 x 12 x 16))		30.90341					
18	BASE CENTRAL STATION + OTHER GENERATION COST, ¢/mmbtu		-					
19	Base % Input to Sys kWh Mix		0.00%					
20	Efficiency Factor, mmbtu/kwh		0.010722					
21	WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST ¢/kWh (lines (18 x 19 x 20))		-					
22	COST LESS BASE (line(17 - 21))		30.90341					
23	Revenue Tax Req Multiplier		1.0975					
24	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (22 x 23))		33.91649					
						SUMMARY OF		
						TOTAL GENERATION FACTOR, ¢/kWh		
						35	CNTRL STN + OTHER (line 24)	33.91649
						36	DG (line 34)	-
						37	TOTAL GENERATION FACTOR, ¢/kWh (lines 35 + 36)	33.91649

MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION

ENERGY COST RECOVERY (ECR) FILING

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

Line

- 1 Effective Date September 1, 2023
- 2 Supercedes Factors of August 1, 2023

<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	1.34%
46	WEIGHTED COMP. PURCH. ENERGY COST, ¢/kWh (lines (44 x 45))	0.40200
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))	0.40200
51	Loss Factor	1.050
52	Revenue Tax Req Multiplier	1.0975
53	PURCHASED ENERGY FACTOR, ¢/kWh (lines (50 x 51 x 52))	0.46325

Calculation of Monthly Fossil Fuel Cost Risk Sharing Component		
Baseline Diesel		
54	Diesel \$, baseline month	\$936,167
55	Diesel mmbtu, baseline	30,062
56	Baseline Diesel, ¢/mmbtu	3,114.12
Month Diesel		
57	Diesel mmbtu, budget	31,720
58	Diesel Cost, ¢/mmbtu	2,921.39
59	Diesel ECRC Fossil Cost	\$926,661
60	Diesel Base ECRC Recovery Target	\$987,793
61	Diesel differential	-\$61,133
62	Total Fossil	-\$61,133
63	2% of above	-\$1,223
64	Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year	-\$15,427
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	-\$1,223
70	Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month	-\$16,650
71	Fossil Cost Risk Sharing before taxes	-\$1,223
72	Revenue Tax Adjustment	1.097514
73	Fossil Cost Risk Sharing w/revenue tax	-\$1,342
74	Forecasted Month MWh Sales	2,999
75	Fossil Fuel Cost Risk Sharing Component, ¢/kWh	0.0447

Line **SYSTEM COMPOSITE CALCULATIONS**

76	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (lines (37 + 53))	34.37974
77	Adjustment, ¢/kWh	0.000
78	Fossil Fuel Cost Risk Sharing Component	0.045
79	ECR Reconciliation Adjustment	(1.668)
80	ECR FACTOR, ¢/kWh (lines (76 + 77 + 78 + 79))	32.757

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

MONTH END FUEL OIL ESTIMATE

<u>Miki Basin - ULSD</u>	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
8/22/2023	3,496.81	20,036.66	524,598.59
Estimated Use	1,573.29	9,014.95	225,076.30
Estimated Received	1,285.71	7,367.12	198,869.51
Estimated Additional	<u>2,326.56</u>	<u>13,331.17</u>	<u>428,274.50</u>
Estimated End	5,535.79	31,720.00	926,666.30

Next Month's Combined Miki Expense (\$/bbl) \$ 167.3955 /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	\$ 167.3955	5.73 BTU/BBL	2,921.39

MAUI ELECTRIC COMPANY, LTD.
Lanai Division
ECR Reconciliation Adjustment

September 2023

1. Amount to be refunded	(\$136,700)
2. Monthly amount (1 / 3 X Line 1)	(\$45,567)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$50,010)
5. Estimated Sales (September 2023)	2,999 mwh
6. Adjustment (Line 4 ÷ Line 5)	-1.668 ¢/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)	(19,777)	18,606
April					(19,433)	(19,028)	(422)
May	52,900	(1)	(824)	53,724	(17,633)	(17,785)	35,517
June					(17,633)	(16,509)	19,008
July					(17,633)	(17,259)	1,749
August	136,700	(2)	1,377	135,323	(45,567)		
September					(45,567)		

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 & COMMERCIAL</u>	<u>RESIDENTIAL BILL (\$)</u> <u>@ 400 KWH</u>	<u>@ 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
May 1, 2023	29.925	195.65	242.93
June 1, 2023	31.440	202.21	250.93
July 1, 2023	28.448	190.49	236.32
August 1, 2023	27.992	188.67	234.04
September 1, 2023	32.757	207.73	257.87

**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
06/01/19	FINAL RATE INCREASE (3.74%), DOCKET NO. 2017-0150 (2018 TEST YEAR)	
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 CENTS/KWH
07/01/22 - 06/30/23	RESID. PBF SURCHARGE ADJUSTMENT	0.6488 CENTS/KWH
07/01/22 - 12/31/22	GREEN INFRASTRUCTURE FEE	1.18 DOLLARS/MONTH
01/01/23 - 06/30/23	GREEN INFRASTRUCTURE FEE	1.23 DOLLARS/MONTH
01/01/23 - 05/31/23	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.9048 CENTS/KWH
04/01/23 - 04/30/23	SOLARSAVER ADJUSTMENT	-0.0038 CENTS/KWH
05/01/23	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/23	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	11.88% PERCENT OF ALL RATE SCHEDULE CHARGES, EXCLUDING ECRC and RBA
07/01/23	RESID. PBF SURCHARGE ADJUSTMENT	0.7195 CENTS/KWH
07/01/23	GREEN INFRASTRUCTURE FEE	1.18 DOLLARS/MONTH

~ Surcharges currently in effect are in bold.

~ Base charges include customer charge, demand charge, energy charge, power factor adjustment, voltage discount and minimum charge.