



December 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 January 2021

Maui Electric Company, Limited's ("Maui Electric" or "Company") January 2021 Energy Cost Recovery factor for our Maui Division is 14.967 cents per kilowatt-hour ("kWh"), an increase of 0.044 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$156.21, an increase of \$0.28 compared to rates effective December 1, 2020. The increase in the typical residential bill is due to the increase in the Energy Cost Recovery factor (+\$0.23) and increase in the Green Infrastructure Fee (+\$0.06), partially offset by a decline in the Purchase Power Adjustment (-\$0.01).

The Company's Maui Division fuel composite cost of generation, central station and other increased 28.490 cents per million BTU to 981.48 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy increased 1.523 cents per kWh to 19.944 cents per kWh.

The Energy Cost Recovery factor for our Lāna'i Division for January 2021 is 19.498 cents per kWh, an increase of 1.624 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$147.44, an increase of \$6.55 compared to rates effective December 1, 2020. The increase in the typical residential bill is due to the increase in the Energy Cost Recovery factor (+\$6.49) and increase in the Green Infrastructure Fee (+\$0.06).

The Company's Lāna'i Division fuel composite cost of generation, central station and other increased 134.36 cents per million BTU to 1,677.61 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 January 2021 is 14.116 cents per kWh, an increase of 0.779 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$133.06, an increase of \$3.17 compared to rates effective December 1, 2020. The increase in the typical residential bill is due to the increase in the Energy Cost Recovery factor (+\$3.11) and increase in the Green Infrastructure Fee (+\$0.06).

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 78.07 cents per million BTU to 1,156.70 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 January 1, 2021.

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.
MOLOKAI DIVISION**

ENERGY COST RECOVERY FACTOR

	EFFECTIVE DATES		<u>Change</u>
	<u>12-01-20</u>	<u>01-01-21</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	1,078.63	1,156.70	78.07
DG Energy, ¢/kWh	0.00	0.00	0.00
Purchased Energy, ¢/kWh	22.48	21.80	(0.68)
<u>Residential Schedule "R"</u>			
Energy Cost Recovery, ¢/kWh	13.337	14.116	0.779
<u>Others - "G,P,F"</u>			
Energy Cost Recovery, ¢/kWh	13.337	14.116	0.779
<u>Residential Customer with</u>			
400 KWH Consumption, \$/Bill	129.89	133.06	3.17
500 KWH Consumption, \$/Bill	160.86	164.81	3.95

Supersedes Sheet Effective:

December 1, 2020

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

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

Line

1 Effective Date January 1, 2021
2 Supercedes Factors December 1, 2020

GENERATION COMPONENT

CENTRAL STATION						DG ENERGY COMPONENT	
FUEL PRICES, ¢/mmbtu							
3	Industrial						
			0.00				
4	Diesel						
			1,156.70				
5	Other						
			0.00				
BTU MIX, %							
6	Industrial						
			0.00				
7	Diesel						
			100.00				
8	Other						
			0.00				
			<u>100.00</u>				
9	COMPOSITE COST OF GENERATION, CENTRAL STATION + OTHER ¢/mmbtu (Lines (3 x 6) + (4 x 7) + (5 x 8))		1,156.70				
10	% Input to System kWh Mix		99.99				
EFFICIENCY FACTOR, mmbtu/kWh							
	(A)	(B)	(C)	(D)			
			Percent of				
			Centrl Stn +	Weighted			
	Fuel Type	Eff Factor	Other	Eff Factor			
		mmbtu/kwh					
11	Industrial	0.000000	0.00	0.000000			
12	Diesel	0.011127	100.00	0.011127			
13	Other	0.011127	0.00	0.000000			
	(Lines 11, 12, 13): Col(B) x Col(C) = Col(D)						
14	Weighted Efficiency Factor, mmbtu/kWh [lines 11(D) + 12(D) + 13(D)]		0.011127				
15	WEIGHTED COMPOSITE CENTRAL STATION + OTHER GENERATION COST, ¢/kWh (lines (9 x 10 x 14))		12.86876				
16	BASE CENTRAL STATION + OTHER GENERATION COST, ¢/mmbtu		0.00				
17	Base % Input to Sys kWh Mix		0.00				
18	Efficiency Factor, mmbtu/kwh		0.011127				
19	WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST ¢/kWh (lines (16 x 17 x 18))		0.00000				
20	COST LESS BASE (line(15 - 19))		12.86876				
21	Revenue Tax Req Multiplier		1.0975				
22	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (20 x 21))		14.12346				
23	COMPOSITE COST OF DG ENERGY, ¢/kWh		0.000				
24	% Input to System kWh Mix		0.00				
25	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 23 x 24)		0.00000				
26	BASE DG ENERGY COMP COST		0.000				
27	Base % Input to System kWh Mix		0.00				
28	WEIGHTED BASE DG ENERGY COST, ¢/kWh (Line 26 x 27)		0.00000				
29	Cost Less Base (Line 25 - 28)		0.00000				
30	Loss Factor		1.098				
31	Revenue Tax Req Multiplier		1.0975				
32	DG FACTOR, ¢/kWh (Line 29 x 30 x 31)		0.00000				
SUMMARY OF							
TOTAL GENERATION FACTOR, ¢/kWh							
33	CNTRL STN + OTHER (line 22)		14.12346				
34	DG (line 32)		0.00000				
35	TOTAL GENERATION FACTOR, ¢/kWh (lines 33 + 34)		14.12346				

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

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

Line

1 Effective Date January 1, 2021
2 Supercedes Factors December 1, 2020

<u>Line</u> PURCHASED ENERGY COMPONENT		
	PURCHASED ENERGY PRICE, ¢/kWh - Fossil	
	PURCHASED ENERGY PRICE, ¢/kWh - Renewable	
36	Unused	0.000
37	CBRE	22.500
38	FIT	21.800
39		
40	Sch Q	0.000
	PURCHASED ENERGY KWH MIX, % - Fossil	
	PURCHASED ENERGY KWH MIX, % - Renewable	
41	Unused	0.00%
42	CBRE	0.00%
43	FIT	100.00%
44		
45	Sch Q	0.00%
45A	Fossil Purch. Energy %	0.00%
45B	Renewable Purch. Energy %	100.00%
45C	Comp. Cost, Fossil Purch. Energy, ¢/kWh	N/A
45D	Comp. Cost, Renewable Purch. Energy, ¢/kWh	21.800
46	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh (Lines (36 x 41) + (37 x 42) + (38 x 43) + (39 x 44))	21.800
47	% Input to System kWh Mix	0.01
48	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (lines (46 x 47))	0.00312
49	BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh	0.000
50	Base % Input to Sys kWh Mix	0.00
51	WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (lines (49 x 50))	0.00000
52	COST LESS BASE (lines (48 - 51))	0.00312
53	Loss Factor	1.098
54	Revenue Tax Req Multiplier	1.0975
55	PURCHASED ENERGY FACTOR, ¢/kWh (lines (52 x 53 x 54))	0.00376

<u>Line</u> Calculation of Monthly Fossil Fuel Cost Risk Sharing Component		
Baseline Diesel		
56	Diesel \$, baseline month	\$298,406
57	Diesel mmbtu, baseline	25,798
58	Baseline Diesel, c/mmbtu	1,156.70
Month Diesel		
59	Diesel mmbtu, budget	25,798
60	Diesel Cost, ¢/mmbtu	1,156.70
61	Diesel ECRC Fossil Cost	\$298,406
62	Diesel Base ECRC Recovery Target	\$298,406
63	Diesel differential	\$0
64	Total Fossil	\$0
65	2% of above	\$0
66	Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year	\$0
67	Maximum Annual Cap (bi-directional)	\$31,500
68	Number of Days in year from implementation	365
69	Fossil Risk % Proration (based on 365 day year)	100.00%
70	Maximum Annual Cap (bi-directional) prorated	\$31,500
71	Applicable Monthly Fossil Fuel Cost Risk Sharing	\$0
72	Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month	\$0
73	Fossil Cost Risk Sharing before taxes	\$0
74	Revenue Tax Adjustment	1.097514
75	Fossil Cost Risk Sharing w/revenue tax	\$0
76	Forecasted Month MWh Sales	2,292
77	Fossil Fuel Cost Risk Sharing Component, ¢/kWh	0.0000

<u>Line</u> SYSTEM COMPOSITE CALCULATIONS		
78	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (lines (35 + 55))	14.12722
79	Adjustment, ¢/kWh	0.000
80	Fossil Fuel Cost Risk Sharing Component	0.000
81	ECR Reconciliation Adjustment	(0.011)
82	ECR FACTOR, ¢/kWh (lines (78 + 79 + 80 + 81))	14.116

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

MONTH END FUEL OIL ESTIMATE

	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
12/17/2020	6,002.50	34,394.33	384,225.16
Estimated Use	2,300.94	13,184.39	142,210.52
Estimated Received	-	-	-
Estimated Additional	<u>800.71</u>	<u>4,588.06</u>	<u>56,390.47</u>
Estimated End	4,502.27	25,798.00	298,405.11

Next Months Expense = \$ 66.2788 /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	\$ 66.2788	5.73 BTU/BBL	1156.70

MAUI ELECTRIC COMPANY, LTD.
Molokai Division
ECR Reconciliation Adjustment

January 2021

1. Amount to be refunded	(\$700)
2. Monthly amount (1/3 x Line 1)	(\$233)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$256)
5. Estimated Sales (January 2021)	2,292 mwh
6. Adjustment (Line 4 ÷ Line 5)	-0.011 ¢/kwh

**MAUI ELECTRIC COMPANY, LTD.
MOLOKAI 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 '19					(9,667)	(10,289)	7,910
January '20					(9,667)	(10,240)	(2,330)
February	(31,000)	(4)	(1,752)	(29,248)	10,333	9,207	(22,371)
March					10,333	10,125	(12,246)
April					10,333	9,676	(2,570)
May	(400)	(1)	(1,907)	1,507	133	156	(907)
June					133	132	(775)
July					133	140	(635)
August	23,000	(2)	(635)	23,635	(7,667)	(7,490)	15,510
September					(7,667)	(7,964)	7,546
October					(7,667)	(7,901)	(355)
November	700	(3)	(113)	813	(233)	(238)	220
December					(233)		
January '21					(233)		

NOTES:

- Col(1): Quarterly FOA reconciliation amounts. (Refer to Attachment 20)
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.
Molokai Division
Calculations of the Average Residential Customer Bill**

	Rate			Charge (\$) at 400 Kwh		
	12-01-20	01-01-21		12-01-20	01-01-21	Difference
Base Rates						
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 250 kWhr per month ¢/kWh	14.0459	14.0459		35.11	35.11	0.00
Next 500 kWhr per month ¢/kWh	16.6959	16.6959		25.04	25.04	0.00
Customer Charge \$	11.50	11.50		11.50	11.50	0.00
Total Base Charges				71.65	71.65	0.00
IRP Refund						
% on base	0.000	0.000		0.00	0.00	0.00
Revenue Balancing Rate Adjustment ¢/kWh	0.3383	0.3383		1.35	1.35	0.00
PBF Surcharge ¢/kWh	0.5882	0.5882		2.35	2.35	0.00
Renewable Energy Infrastructure Cost Recovery Provision ¢/kWh	0.0000	0.0000		0.00	0.00	0.00
SolarSaver Adjustment ¢/kWh	0.0000	0.0000		0.00	0.00	0.00
Refund of 2018 Interim % on base	0.00	0.00		0.00	0.00	0.00
Purchased Power Adjustment ¢/kWh	0.0000	0.0000		0.00	0.00	0.00
Energy Cost Recovery ¢/kWh	13.337	14.116		53.35	56.46	3.11
Green Infrastructure Fee \$	1.19	1.25		1.19	1.25	0.06
Avg Residential Bill at 400 kwh				129.89	133.06	

Increase (Decrease -)	3.17
% Change	2.44%

	Rate			Charge (\$) at 500 Kwh		
	12-01-20	01-01-21		12-01-20	01-01-21	Difference
Base Rates						
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 250 kWhr per month ¢/kWh	14.0459	14.0459		35.11	35.11	0.00
Next 500 kWhr per month ¢/kWh	16.6959	16.6959		41.74	41.74	0.00
Customer Charge \$	11.50	11.50		11.50	11.50	0.00
Total Base Charges				88.35	88.35	0.00
IRP Refund						
% on base	0.000	0.000		0.00	0.00	0.00
Revenue Balancing Rate Adjustment ¢/kWh	0.3383	0.3383		1.69	1.69	0.00
PBF Surcharge ¢/kWh	0.5882	0.5882		2.94	2.94	0.00
Renewable Energy Infrastructure Cost Recovery Provision ¢/kWh	0.0000	0.0000		0.00	0.00	0.00
SolarSaver Adjustment ¢/kWh	0.0000	0.0000		0.00	0.00	0.00
Refund of 2018 Interim % on base	0.00	0.00		0.00	0.00	0.00
Purchased Power Adjustment ¢/kWh	0.0000	0.0000		0.00	0.00	0.00
Energy Cost Recovery ¢/kWh	13.337	14.116		66.69	70.58	3.89
Green Infrastructure Fee \$	1.19	1.25		1.19	1.25	0.06
Avg Residential Bill at 500 kwh				160.86	164.81	

Increase (Decrease -)	3.95
% Change	2.46%

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

<u>EFFECTIVE DATE</u>	<u>FUEL FACTOR CENTS / KWH</u>		<u>RESIDENTIAL BILL (\$)</u>	
	<u>COMMERCIAL</u>		<u>@ 400 KWH</u>	<u>@ 500 KWH</u>
January 1, 2019	-3.771		163.91	204.03
February 1, 2019	-7.208		150.16	186.85
March 1, 2019	-4.872		159.50	198.53
April 1, 2019	-5.034		158.51	197.29
May 1, 2019	-3.503		164.98	205.37
June 1, 2019	5.096		166.63	206.77
July 1, 2019	3.171		161.65	200.57
August 1, 2019	2.259		155.00	192.25
September 1, 2019	19.349		152.49	189.11
October 1, 2019	19.071		151.51	187.89
November 1, 2019	20.907		162.13	201.16
December 1, 2019	18.365		151.94	188.43
January 1, 2020	18.533		153.75	190.67
February 1, 2020	21.165		164.02	203.51
March 1, 2020	21.967		167.23	207.52
April 1, 2020	19.555		157.34	195.16
May 1, 2020	18.231		151.00	187.24
June 1, 2020	12.810		127.13	157.40
July 1, 2020	10.471		118.42	146.53
August 1, 2020	12.013		125.55	155.44
September 1, 2020	14.463		135.41	167.76
October 1, 2020	10.877		121.03	149.78
November 1, 2020	14.096		132.92	164.65
December 1, 2020	13.337		129.89	160.86
January 1, 2021	14.116		133.06	164.81

**MAUI ELECTRIC COMPANY, LTD. -- Molokai 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
07/01/17 - 06/30/18	RESID. PBF SURCHARGE ADJUSTMENT	0.4244 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	6.68 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
5/1/2019 - 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	-2.00 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
08/01/19 - 08/31/19	PURCHASED POWER ADJUSTMENT	-0.7518 CENTS/KWH
09/01/19 - 09/30/19	PURCHASED POWER ADJUSTMENT	-0.7820 CENTS/KWH
10/01/19 - 10/31/19	PURCHASED POWER ADJUSTMENT	-0.7475 CENTS/KWH
11/01/19 - 11/30/19	PURCHASED POWER ADJUSTMENT	0.0692 CENTS/KWH
12/01/19 - 12/31/19	PURCHASED POWER ADJUSTMENT	0.0655 CENTS/KWH
01/01/20 - 01/31/20	PURCHASED POWER ADJUSTMENT	0.0648 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 - 04/30/20	PURCHASED POWER ADJUSTMENT	0.00 CENTS/KWH
04/01/20 - 04/30/20	SOLARSAVER ADJUSTMENT	-0.0592 CENTS/KWH
05/01/20 - 05/31/20	PURCHASED POWER ADJUSTMENT	-0.3200 CENTS/KWH
05/01/20	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/20 - 06/30/20	PURCHASED POWER ADJUSTMENT	-0.3325 CENTS/KWH
06/01/20	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.3383 CENTS/KWH
07/01/20 - 07/31/20	PURCHASED POWER ADJUSTMENT	0.0000 CENTS/KWH
07/01/20	RESID. PBF SURCHARGE ADJUSTMENT	0.5882 CENTS/KWH
07/01/20 - 12/31/20	GREEN INFRASTRUCTURE FEE	1.1900 DOLLARS/MONTH
08/01/20 - 08/31/20	PURCHASED POWER ADJUSTMENT	0.2408 CENTS/KWH
09/01/20 - 09/30/20	PURCHASED POWER ADJUSTMENT	0.2542 CENTS/KWH
10/01/20 -10/31/20	PURCHASED POWER ADJUSTMENT	0.2449 CENTS/KWH
11/01/20	PURCHASED POWER ADJUSTMENT	0.0000 CENTS/KWH
01/01/21	GREEN INFRASTRUCTURE FEE	1.25 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.