

June 26, 2019

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2019 JUN 26 P 3: 07

PUBLIC UTILITIES COMMISSION

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 Adjustment Factor for July 2019

Maui Electric Company, Limited's ("Maui Electric" or "Company") July 2019 Energy Cost Adjustment factor for our Maui Division is 3.059 cents per kilowatt-hour ("kWh"), a decrease of 0.840 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$178.60, a decrease of \$1.16 compared to rates effective June 1, 2019. The decrease in the typical residential bill is due to the decrease in the Energy Cost Adjustment factor (-\$4.20) and the decrease in the Green Infrastructure Fee (-\$0.18), partially offset by the termination of the Refund of 2018 Interim credit (+\$3.15), increase in the Public Benefits Fund Surcharge (+\$0.06) and increase in the Purchase Power Adjustment (+\$0.01).

The Company's Maui Division fuel composite cost of generation, central station and other decreased 63.99 cents per million BTU to 1,507.74 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy decreased 0.035 cents per kWh to 19.474 cents per kWh.

The Energy Cost Adjustment factor for our Lāna'i Division for July 2019 is 3.088 cents per kWh, a decrease of 1.108 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$171.26, a decrease of \$1.47 compared to rates effective June 1, 2019. The decrease in the typical residential bill is due to the decrease in the Energy Cost Adjustment factor (-\$4.43) and decrease in the Green Infrastructure Fee (-\$0.18), partially offset by the termination of the Refund of 2018 Interim credit (+\$3.09) and increase in the Public Benefits Fund Surcharge (+\$0.05).

The Company's Lāna'i Division fuel composite cost of generation, central station and other decreased 96.62 cents per million BTU to 2,124.33 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 Honorable Chair and Members of the Hawai'i Public Utilities Commission June 26, 2019 Page 2

The Energy Cost Adjustment factor for our Moloka'i Division for July 2019 is 3.171 cents per kWh, a decrease of 1.925 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$161.65, a decrease of \$4.98 compared to rates effective June 1, 2019. The decrease in the typical residential bill is due to the decrease in the Energy Cost Adjustment factor (-\$7.70) and decrease in the Green Infrastructure Fee (-\$0.18), partially offset by the termination of the Refund of 2018 Interim credit (+\$2.85) and increase in the Public Benefits Fund Surcharge (+\$0.05).

The Company's Moloka'i Division fuel composite cost of generation, central station and other decreased 157.35 cents per million BTU to 1,703.25 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, 2019.

Sincerely,

Sharon M. Suzuki

Shaim M. Azelle

President

Attachments

cc: Division of Consumer Advocacy

MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION

ENERGY COST ADJUSTMENT FACTOR

	EFFECTIVE DATES		
	<u>06-01-19</u>	<u>07-01-19</u>	<u>Change</u>
COMPOSITE COSTS Generation, Central Station & Other, ¢/mbtu DG Energy, ¢/kWh	1,860.60 0.00	1,703.25 0.00	(157.35) 0.00
Purchased Energy, ¢/kWh	21.80	21.80	0.00
Residential Schedule "R"			
Energy Cost Adjustment, ¢/kWh	5.096	3.171	(1.925)
Others - "G,P,F"			
Energy Cost Adjustment, ¢/kWh	5.096	3.171	(1.925)
Residential Customer with			
400 KWH Consumption, \$/Bill	166.63	161.65	(4.98)
500 KWH Consumption, \$/Bill	206.77	200.57	(6.20)

Supersedes Sheet Effective: June 1, 2019

MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION ENERGY COST ADJUSTMENT (ECA) FILING

ENERGY COST ADJUSTMENT (ECA) FILING - July 1, 2019 (page 1 of 2)

Line

1 Effective Date2 Supercedes FactorsJuly 1, 2019June 1, 2019

GENERATION COMPONENT

		CENTRA	L STATION		
	FUEL PRICE		<u> </u>		
3	Industrial	-0, ¢/11111bta		0.00	
4	Diesel			1,703.25	
5	Other				
)	Other			0.00	
	BTU MIX, %				DG ENERGY COMPONENT
6	Industrial			0.00	23 COMPOSITE COST OF DG
7	Diesel			100.00	ENERGY, ¢/kWh 0.000
8	Other			0.00	24 % Input to System kWh Mix 0.00
				100.00	
					25 WEIGHTED COMPOSITE DG ENERGY COST,
9	COMPOSITE	E COST OF GE	NERATION,		¢/kWh (Lines 23 x 24) 0.00000
	CENTRAL	STATION + OT	HER ¢/mmbtu	1,703.25	, ,
	(Lines (3 x	6) + (4 x 7) + (5	x 8))		
10	% Input to Sy	ystem kWh Mix		99.98	26 BASE DG ENERGY COMP COST 0.000
					27 Base % Input to System kWh Mix 0.00
	EFFICIENC\	Y FACTOR, mm	nbtu/kWh		28 WEIGHTED BASE DG ENERGY COST,
	(A)	(B)	(C)	(D)	¢/kWh (Line 26 x 27) 0.00000
	, ,	, ,	Percent of	. ,	·
		Eff Factor	Centrl Stn +	Weighted	29 Cost Less Base (Line 25 - 28) 0.00000
	Fuel Type	mmbtu/kwh	<u>Other</u>	Eff Factor	30 Loss Factor 1.098
11	Industrial	0.000000	0.00	0.000000	31 Revenue Tax Req Multiplier 1.0975
12	Diesel	0.011127	100.00	0.011127	32 DG FACTOR,
13	Other	0.011127	0.00	0.000000	¢/kWh (Line 29 x 30 x 31) 0.00000
	(Lines 11.	12. 13): Col(B)	$x \operatorname{Col}(C) = \operatorname{Col}(D)$,
14	•	ficiency Factor,			
		+ 12(D) + 13(D		0.011127	
	. ,	()	,.		
15	WEIGHTED	COMPOSITE C	ENTRAL STATION	۱+	
	OTHER GE	ENERATION CO	OST, ¢/kWh		
	(lines (9 x 1	0 x 14))		18.94869	
16		RAL STATION			
		TION COST, ¢/		1,448.39	
17		t to Sys kWh M		99.98	
	•	actor, mmbtu/kw		0.011127	
19			AL STATION + OTH	HER	
		ON COST ¢/kV	۷h		
	(lines (16	x 17 x 18))		16.11301	0.0000000000000000000000000000000000000
00	00071500	DAGE (III /45	40))	0.00500	SUMMARY OF
		BASE (line(15		2.83568	TOTAL GENERATION FACTOR, ¢/kWh
21		x Req Multiplier		1.0975	33 CNTRL STN + OTHER (line 22) 3.11216
22			IER GENERATION		34 DG (line 32) 0.00000
	FACTOR, ¢	k/kWh (line (20	x 21))	3.11216	35 TOTAL GENERATION FACTOR,
					¢/kWh (lines 33 + 34) 3.11216

MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION ENERGY COST ADJUSTMENT (ECA) FILING

ENERGY COST ADJUSTMENT (ECA) FILING - July 1, 2019 (page 2 of 2)

Line

1 Effective Date2 Supercedes FactorsJuly 1, 2019June 1, 2019

Line	PURCHASED ENERGY COMPONENT	
	PURCHASED ENERGY PRICE, ¢/kWh	
36	FIT	21.800
37		0.000
00		0.000
38	Sch Q	0.000
	PURCHASED ENERGY KWH MIX, %	
39	FIT	100.00
40		0.00
41	Sch Q	0.000
42	COMPOSITE COST OF PURCHASED	
	ENERGY, ¢/kWh	21.800
40	(Lines (36 x 39) + (37 x 40) + (38 x 41))	0.00
	% Input to System kWh Mix WEIGHTED COMPOSITE PURCHASED ENE	0.02
44		_
	COST, ¢/kWh (lines (42 x 43))	0.00388
45	BASE PURCHASED ENERGY	
	COMPOSITE COST, ¢/kWh	21.800
	Base % Input to Sys kWh Mix	0.02
47	WEIGHTED BASE PURCHASED ENERGY	0.00400
	COST, ¢/kWh (lines (45 x 46))	0.00436
	COST LESS BASE (lines (44 - 47))	(0.00048)
_	Loss Factor	1.098
	Revenue Tax Req Multiplier	1.0975
51	PURCHASED ENERGY FACTOR, ¢/kWh (lines (48 x 49 x 50))	(0.00058)

Line SYSTEM COMPOSITE CALCULATIONS

Maui Electric Company, Ltd. Molokai Division

MONTH END FUEL OIL ESTIMATE

	Barrels	MBTU	\$
6/18/2019	5,823.90	33,370.97	590,251.31
Estimated Use	1,902.02	10,898.57	202,778.92
Estimated Received	4,300.00	24,639.00	414,951.90
Estimated Additional	<u>-</u>	<u> </u>	
Estimated End	8.221.88	47.111.40	802.424.29

Next Months Expense = \$ 97.5962 /bbl

FUEL OIL INVENTORY PRICE USED FOR FILING

Type of Oil Burned	<u>1</u>	<u>Price</u>	Conversion Factor	Prices ¢/MBTU
Diesel	\$	97.5962	5.73 BTU/BBL	1703.25

MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION

Contract Prices effective June 1, 2019

TYPE OF OIL BURNED	\$/BBL	¢/MBTU_
ULTRA LOW SULFUR DIES	EL	
Tax *	5.2066	90.87
Ocean Transportation	1.7216	30.05
Storage	5.0658	88.41
Wharfage	0.2900	5.06

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.

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

MAUI ELECTRIC COMPANY, LTD. Molokai Division ECA Reconciliation Adjustment

July 2019

1.	Amount to be Collected	\$4,000	
2.	Monthly amount (1/3 x Line 1)	\$1,333	
3.	Revenue Tax Divisor	0.91115	
4.	Total (Line 2 / Line 3)	\$1,463	
5.	Estimated Sales (July 2019)	2,477	mwh
6.	Adjustment (Line 4 ÷ Line 5)	0.059	¢/kwh

MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION

2019 Cumulative Reconciliation Balance

<u>Month</u>	(1) YTD FOA Reconciliation	<u>Qtr</u>	(2) FOA Rec Adjust <u>Variance</u>	(3) FOA Rec Less <u>Variance</u>	(4) Try to Collect	(5) Actual <u>Collect</u>	(6) Month-end Cumulative <u>Balance</u>
December '18 January '19					(3,033) (3,033)	(3,133) (3,259)	2,348 (911)
February	(8,800)	(4)	(682)	(8,118)	2,933	2,637	(6,392)
March					2,933	2,879	(3,513)
April					2,933	2,976	(537)
May	(4,000)	(1)	(576)	(3,424)	1,333	1,340	(2,621)
June					1,333		
July					1,333		

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

Base	Rate	S
_	_	

Base Fuel/Energy Charge
Non-fuel Fuel Energy Charge
First 250 kWhr per month
Next 500 kWhr per month
Customer Charge
Total Base Charges

IRP Refund

Revenue Balancing Rate Adjustment
PBF Surcharge
Renewable Energy Infrastructure Cost Recovery
Provision
SolarSaver Adjustment
Refund of 2018 Interim
Energy Cost Adjustment
Green Infrastructure Fee

Avg Residential Bill at 400 kwh

Rate			
	06-01-19	07-01-19	
effective date:	06/01/19	06/01/19	
¢/kWh	17.6887	17.6887	
rt /14\A/la	14.0450	440450	
¢/kWh	14.0459	14.0459	
¢/kWh	16.6959	16.6959	
\$	11.50	11.50	
% on base	0.000	0.000	
¢/kWh	0.8716	0.8716	
¢/kWh	0.4658	0.4775	
¢/kWh	0.0000	0.0000	
· ·			
¢/kWh	0.0000	0.0000	
% on base	-2.00	0.00	
¢/kWh	5.096	3.171	
\$	1.35	1.17	

Charge (\$) at 400 Kwh			
06-01-19	07-01-19	Difference	
70.75	70.75	0.00	
35.11	35.11	0.00	
25.04	25.04	0.00	
11.50	11.50	0.00	
142.40	142.40	0.00	
0.00	0.00	0.00	
3.49	3.49	0.00	
1.86	1.91	0.05	
0.00	0.00	0.00	
0.00	0.00	0.00	
-2.85	0.00	2.85	
20.38	12.68	-7.70	
1.35	1.17	-0.18	
_	_		
166.63	161.65		

Increase (Decrease -) % Change

-4.98 -2.99%

Base	Rates
Dasc	Ilaco

Base Fuel/Energy Charge
Non-fuel Fuel Energy Charge
First 250 kWhr per month
Next 500 kWhr per month
Customer Charge
Total Base Charges

IRP Refund

Revenue Balancing Rate Adjustment
PBF Surcharge
Renewable Energy Infrastructure Cost Recovery
Provision
SolarSaver Adjustment
Refund of 2018 Interim
Energy Cost Adjustment
Green Infrastructure Fee

Avg Residential Bill at 500 kwh

Rate					
	06-01-19	07-01-19			
effective date:	06/01/19	06/01/19			
¢/kWh	17.6887	17.6887			
¢/kWh	14.0459	14.0459			
¢/kWh	16.6959	16.6959			
\$	11.50	11.50			
% on base	0.000	0.000			
¢/kWh	0.8716	0.8716			
¢/kWh	0.4658	0.4775			
¢/kWh	0.0000	0.0000			
¢/kWh	0.0000	0.0000			
% on base	-2.00	0.00			
¢/kWh	5.096	3.171			
\$	1.35	1.17			

Charge (\$) at 500 Kwh						
07-01-19	Difference					
88 44	0.00					
00.11	0.00					
25 11	0.00					
	0.00					
	0.00					
176.79	0.00					
0.00	0.00					
4.36	0.00					
	0.06					
2.00	0.00					
0.00	0.00					
	0.00					
	3.54					
15.86	-9.62					
1.17	-0.18					
200.57						
	07-01-19 88.44 35.11 41.74 11.50 176.79 0.00 4.36 2.39 0.00 0.00 0.00 15.86 1.17					

Increase (Decrease -) % Change

-6.20 -3.00%

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

EFFECTIVE DATE	FUEL FACTOR CENTS / KWH RESIDENTIAL & COMMERCIAL	RESIDENT <u>@ 400 KWH</u>	IAL BILL (\$) <u>@ 500 KWH</u>
January 1, 2017	-8.940	137.11	170.58
February 1, 2017	-8.792	137.70	171.32
March 1, 2017	-8.066	140.61	174.95
April 1, 2017	-8.432	138.59	172.43
May 1, 2017	-8.851	137.47	171.02
June 1, 2017	-8.516	139.44	173.49
July 1, 2017	-8.482	138.83	172.76
August 1, 2017	-9.670	134.08	166.82
September 1, 2017	-10.692	129.95	161.66
October 1, 2017	-9.093 4.013	136.35	169.65
November 1, 2017 December 1, 2017	-4.912 -5.591	153.07 150.36	190.56 187.16
December 1, 2017	-5.591	130.30	107.10
January 1, 2018	-6.300	147.68	183.78
February 1, 2018	-6.275	147.78	183.90
March 1, 2018	-4.937	153.13	190.59
April 1, 2018	-5.975	148.47	184.76
May 1, 2018	-5.031	152.76	190.12
June 1, 2018	-3.490	160.24	199.48
July 1, 2018	-1.354	168.81	210.24
August 1, 2018	-4.992	154.26	192.05
September 1, 2018	-3.443	165.08	205.53
October 1, 2018	-4.054	162.63	202.48
November 1, 2018	-3.697	164.06	204.26
December 1, 2018	-1.431	173.13	215.59
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

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	
08/01/13 - 05/31/19	FINAL RATE INCREASE (1.25%), DOCKET NO. 2011-0092 (201			
01/01/16 - 06/30/16	GREEN INFRASTRUCTURE FEE		DOLLARS/MONTH	
03/01/16 - 02/28/17	RENEWABLE ENERGY INFRASTRUCTURE COST		CENTS/KWH	
00/01/10 02/20/11	RECOVERY PROVISION	0.0000	021110/111111	
04/01/16 - 04/30/16	SOLARSAVER ADJUSTMENT	-0.1835	CENTS/KWH	
05/01/16 - 03/31/17	SOLARSAVER ADJUSTMENT		CENTS/KWH	
06/01/16 - 05/31/17	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.4082	CENTS/KWH	
07/01/16 - 06/30/17	RESID. PBF SURCHARGE ADJUSTMENT	0.5865	CENTS/KWH	
07/01/16 - 12/31/16	GREEN INFRASTRUCTURE FEE	1.13	DOLLARS/MONTH	
01/01/17 - 06/30/17	GREEN INFRASTRUCTURE FEE	1.27	DOLLARS/MONTH	
03/01/17 - 08/16/17	RENEWABLE ENERGY INFRASTRUCTURE COST	0.0098	CENTS/KWH	
	RECOVERY PROVISION			
04/01/17 - 04/30/17	SOLARSAVER ADJUSTMENT	-0.1378	CENTS/KWH	
05/01/17 - 03/31/18	SOLARSAVER ADJUSTMENT	0.0000	CENTS/KWH	
6/1/2017 - 05/31/18	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.5654	CENTS/KWH	
07/01/17 - 12/31/17	GREEN INFRASTRUCTURE FEE	1.18	DOLLARS/MONTH	
08/17/17	RENEWABLE ENERGY INFRASTRUCTURE COST	0.0000	CENTS/KWH	
	RECOVERY PROVISION			
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		CENTS/KWH	
07/01/18 - 12/31/18	GREEN INFRASTRUCTURE FEE		DOLLARS/MONTH	
08/23/18 - 05/31/19	INTERIM RATE INCREASE 2018 TEST YEAR		PERCENT ON BASE	
08/23/18 - 05/31/19	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT		CENTS/KWH	
01/01/19 / 06/30/19	GREEN INFRASTRUCTURE FEE		DOLLARS/MONTH	
04/01/19 - 04/30/19	SOLARSAVER ADJUSTMENT		CENTS/KWH	
05/01/19	SOLARSAVER ADJUSTMENT		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		PERCENT ON BASE	
06/01/19	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT		CENTS/KWH	
07/01/19	RESID. PBF SURCHARGE ADJUSTMENT		CENTS/KWH	
07/01/19	GREEN INFRASTRUCTURE FEE	1.17	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.