

2017 AUG 29 P 3: 37

August 29, 2017

PURLIC 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 September 2017

Maui Electric Company, Limited's ("Maui Electric" or "Company") September 2017 Energy Cost Adjustment factor for our Maui Division is -9.278 cents per kilowatt-hour ("kWh"), a decrease of 1.410 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$138.24, a decrease of \$7.06 compared to rates effective August 1, 2017. The decrease in the typical residential bill is due to the decrease in the Energy Cost Adjustment factor (-\$7.05) and the decrease in the Purchased Power Adjustment Clause rate (-\$0.01).

The Company's Maui Division fuel composite cost of generation, central station and other decreased 16.19 cents per million BTU to 1,057.04 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy decreased 0.934 cents per kWh to 18.147 cents per kWh.

The Energy Cost Adjustment factor for our Lāna'i Division for September 2017 is -10.389 cents per kWh, an increase of 1.270 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$145.44, an increase of \$5.08 compared to rates effective August 1, 2017. The increase in the typical residential bill is due to the increase in the Energy Cost Adjustment factor.

The Company's Lāna'i Division fuel composite cost of generation, central station and other increased 104.96 cents per million BTU to 1,714.06 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy is 27.000 cents per kWh.

The Energy Cost Adjustment factor for our Moloka'i Division for September 2017 is -10.692 cents per kWh, a decrease of 1.022 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$129.99, a decrease of \$4.09 compared to rates effective August 1, 2017. The decrease in the typical residential bill is due to the decrease in the Energy Cost Adjustment factor.

The Honorable Chair and Members of the Hawai'i Public Utilities Commission August 29, 2017 Page 2

The Company's Moloka'i Division fuel composite cost of generation, central station and other decreased 83.37 cents per million BTU to 1,267.83 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, 2017.

Sincerely,

Sharon M. Suzuki

President

Attachments

cc: Division of Consumer Advocacy

MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION

ENERGY COST ADJUSTMENT FACTOR

	EFFECTIV	E DATES	
	<u>08-01-17</u>	<u>09-01-17</u>	<u>Change</u>
COMPOSITE COSTS Generation, Central Station & Other, ¢/mbtu DG Energy, ¢/kWh Purchased Energy, ¢/kWh	1,351.20 0.00 21.80	1,267.83 0.00 21.80	(83.37) 0.00 0.00
Residential Schedule "R"			
Energy Cost Adjustment, ¢/kWh	(9.670)	(10.692)	(1.022)
Others - "G,P,F"			
Energy Cost Adjustment, ¢/kWh	(9.670)	(10.692)	(1.022)
Residential Customer with			
400 KWH Consumption, \$/Bill 500 KWH Consumption, \$/Bill	134.08 166.82	129.99 161.71	(4.09) (5.11)

Supersedes Sheet Effective: August 1, 2017

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

ENERGY COST ADJUSTMENT (ECA) FILING - September 1, 2017 (page 1 of 2)

Line

1 Effective Date September 1, 2017 2 Supercedes Factors August 1, 2017

GENERATION COMPONENT

FUEL PRICES, e/mmbtu 0.00 4 Diesel 1,267.83 5 Other 0.00	CENTRAL STATION		
A Diesel	FUEL PRICES, ¢/mmbtu		
SORTION STATE STATION STATIO	3 Industrial	0.00	
BTU MIX, % 6 Industrial 0.00 7 Diesel 100.00 8 Other 0.00 100.00 9 COMPOSITE COST OF GENERATION, CENTRAL STATION + OTHER GENERATION COST, ¢/kWh (lines (9 x 10 x 14)) 10 % Industrial 0.00000 10 % Industrial 0.000000 10 % Industrial 0.00000000000000000000000000000000000	4 Diesel	1,267.83	
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2.00			
100.00			
25 WEIGHTED COMPOSITE DE NERGY COST,	8 Other		24 % Input to System kWh Mix 0.00
9 COMPOSITE COST OF GENERATION,		<u>100.00</u>	
CENTRAL STATION + OTHER ¢/mmbtu			
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¢/kWh (lines 33 + 34) -10.78256	FACTOR, ¢/kWh (line (20 x 21))	(10.78256)	,
			¢/kWh (lines 33 + 34) -10.78256

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

ENERGY COST ADJUSTMENT (ECA) FILING - September 1, 2017 (page 2 of 2)

Line

1 Effective Date September 1, 2017 2 Supercedes Factors August 1, 2017

<u>Line</u>	PURCHASED ENERGY COMPONENT	
	DUDOLIAGED ENED OV DDIGE . # 144	
00	PURCHASED ENERGY PRICE, ¢/kWh	04.000
	FIT	21.800
37		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
	(Lines (36 x 39) + (37 x 40) + (38 x 41))	
43	% Input to System kWh Mix	0.23
44	WEIGHTED COMPOSITE PURCHASED ENERG	iΥ
	COST, ¢/kWh (lines (42 x 43))	0.05014
15	BASE PURCHASED ENERGY	
45	COMPOSITE COST, ¢/kWh	21.800
46	Base % Input to Sys kWh Mix	0.09
	WEIGHTED BASE PURCHASED ENERGY	0.00
	COST, ¢/kWh (lines (45 x 46))	0.01962
	COST LESS BASE (lines (44 - 47))	0.03052
	Loss Factor	1.095
	Revenue Tax Req Multiplier	1.0975
51	PURCHASED ENERGY FACTOR, ¢/kWh	0.03668
	(lines (48 x 49 x 50))	

<u>Line</u> <u>SYSTEM COMPOSITE CALCULATIONS</u>

Maui Electric Company, Ltd. Molokai Division

MONTH END FUEL OIL ESTIMATE

	Barrels	MBTU	\$
8/21/2017	7,588.83	43,484.02	558,822.28
Estimated Use	1,574.10	9,019.59	121,872.96
Estimated Received	-	-	-
Estimated Additional	6,014.73	34,464.43	436,949.32
Estimated End	12,029.46	68,928.85	873,898.64

Next Months Expense = \$ 72.6465 /bbl

FUEL OIL INVENTORY PRICE USED FOR FILING

Type of Oil Burned	<u>Price</u>		Prices ¢/MBTU
Diesel	\$ 72.6465	5.73 BTU/BBL	1267.83

MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION

Contract Prices effective September 1, 2017

TYPE OF OIL BURNED	\$/BBL	¢/MBTU
ULTRA LOW SULFUR DIES	SEL	
Tax *	2.0398	35.60
Ocean Transportation	1.6449	28.71
Storage	4.6440	81.05
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

September 2017

Amount to be Collected	\$3,300
2. Monthly amount (1/3 x Line 1)	\$1,100
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	\$1,207
5. Estimated Sales (September 2017)	2,230 mwh
6. Adjustment (Line 4 ÷ Line 5)	0.054 ¢/kwh

MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION 2017 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 Collect	(6) Month-end Cumulative <u>Balance</u>
December '16					9,300	9,580	(8,349)
January '17 February	(14,400)	(4)	957	(15,357)	9,300 4,800	10,066 4,589	1,717
March	(14,400)	(4)	957	(15,557)	4,800 4,800	5,142	(9,051) (3,909)
April					4,800	5,253	1,344
May	(3,600)	(1)	897	(4,497)	1,200	1,209	(1,944)
June	(0,000)	(')	007	(4,407)	1,200	1,373	(571)
July					1,200	1,327	756
August	(3,300)	(2)	635	(3,935)	1,100	.,0	
September	(=,==,)	(-)		(=,===)	1,100		
NOTES:							
Col(1):	Quarterly FOA r			•	•		
Col(2):	A positive numb	on adju	stment variar	nce accumulat	ed during the	last three m	onths,

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))

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(3):

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 Rates
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
Barrer Balancia Bata A Parte
Revenue Balancing Rate Adjustm
PBF Surcharge
Renewable Energy Infrastructure
Recovery Provision

Revenue Balancing Rate Adjustment PBF Surcharge Renewable Energy Infrastructure Cost Recovery Provision SolarSaver Adjustment Energy Cost Adjustment

Avg Residential Bill at 400 kwh

Green Infrastructure Fee

Rate				
	08-01-17	09-01-17		
effective date:	08/01/13	08/01/13		
¢/kWh	26.3468	26.3468		
¢/kWh	11.4278	11.4278		
¢/kWh	14.0778	14.0778		
\$	8.50	8.50		
% on base	0.000	0.000		
¢/kWh	1.5654	1.5654		
¢/kWh	0.4244	0.4244		
¢/kWh	0.0098	0.0098		
¢/kWh	0.0000	0.0000		
¢/kWh	-9.670	-10.692		
\$	1.18	1.18		

Charo	Charge (\$) at 400 Kwh					
08-01-17	09-01-17	Difference				
105.39	105.39	0.00				
28.57	28.57	0.00				
21.12	21.12	0.00				
8.50	8.50	0.00				
163.58	163.58	0.00				
0.00	0.00	0.00				
6.26	6.26	0.00				
1.70	1.70	0.00				
0.04	0.04	0.00				
0.00	0.00	0.00				
-38.68	-42.77	-4.09				
1.18	1.18	0.00				
404.55	400.55					
134.08	129.99					

Increase (Decrease -) % Change

-4.09 -3.05%

Base Rates 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
Energy Cost Adjustment Green Infrastructure Fee

Avg Residential Bill at 500 kwh

Rate					
	08-01-17	09-01-17			
effective date:	08/01/13	08/01/13			
¢/kWh	26.3468	26.3468			
¢/kWh	11.4278	11.4278			
¢/kWh	14.0778	14.0778			
\$	8.50	8.50			
% on base	0.000	0.000			
¢/kWh	1.5654	1.5654			
¢/kWh	0.4244	0.4244			
¢/kWh	0.0098	0.0098			
¢/kWh	0.0000	0.0000			
¢/kWh	-9.670	-10.692			
\$	1.18	1.18			

Charge (\$) at 500 Kwh					
08-01-17	rge (\$) at 500 Kwh				
08-01-17	09-01-17	Difference			
131.73	131.73	0.00			
28.57	28.57	0.00			
35.19	35.19	0.00			
8.50	8.50	0.00			
203.99	203.99	0.00			
200.00	200.00	0.00			
0.00	0.00	0.00			
0.00	0.00	0.00			
7.83	7.83	0.00			
2.12	2.12	0.00			
0.05	0.05	0.00			
0.00	0.00	0.00			
-48.35	-53.46	-5.11			
1.18	1.18	0.00			
166.82	161.71				

Increase (Decrease -) % Change

-5.11 -3.06%

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

EFFECTIVE DATE	FUEL FACTOR CENTS / KWH RESIDENTIAL & COMMERCIAL		TAL BILL (\$) <u>@ 500 KWH</u>
January 1, 2015	-0.141	173.84	216.48
February 1, 2015	-3.412	160.75	200.13
March 1, 2015	-6.056	150.18	186.91
April 1, 2015	-6.122	148.81	185.21
May 1, 2015	-6.727	147.49	183.55
June 8, 2015	-7.453	144.48	179.79
July 1, 2015	-6.185	148.55	184.84
August 1, 2015	-5.864	149.83	186.45
September 1, 2015	-5.935	149.59	186.14
October 1, 2015	-9.896	133.75	166.34
November 1, 2015	-10.149	132.73	165.07
December 1, 2015	-9.676	134.63	167.44
January 1, 2016	-9.942	133.44	165.99
February 1, 2016	-11.270	128.13	159.35
March 1, 2016	-12.649	122.61	152.45
April 1, 2016	-13.391	118.92	147.82
May 1, 2016	-13.226	120.31	149.57
June 1, 2016	-13.376	118.95	147.87
July 1, 2016	-12.675	122.03	151.76
August 1, 2016	-9.906	133.11	165.61
September 1, 2016	-9.794	133.55	166.17
October 1, 2016	-11.131	128.21	159.48
November 1, 2016	-9.970	132.85	165.29
December 1, 2016	-9.244	135.75	168.92
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	129.99	161.71

MAUI ELECTRIC COMPANY, LTD. -- Molokai Division RESIDENTIAL SURCHARGE DATA

EFFECTIVE DATE	ECTIVE DATE DESCRIPTION OF SURCHARGE RATE		RATE	
06/01/11	IRP RECOVERY REFUND		PERCENT ON BASE	
08/01/13	FINAL RATE INCREASE (1.25%), DOCKET NO. 2011-0092 (2012 TEST YEAR			
04/01/15 - 04/30/15	SOLARSAVER ADJUSTMENT		CENTS/KWH	
05/01/15 - 03/31/16	SOLARSAVER ADJUSTMENT		CENTS/KWH	
06/01/15 - 06/07/15	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT		CENTS/KWH	
06/08/15 - 05/31/16	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT		CENTS/KWH	
07/01/15 - 06/30/16	RESID. PBF SURCHARGE ADJUSTMENT		CENTS/KWH	
07/01/15 - 12/31/15	GREEN INFRASTRUCTURE FEE	1.42	DOLLARS/MONTH	
08/17/15 - 02/29/16	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0103	CENTS/KWH	
01/01/16 - 06/30/16	GREEN INFRASTRUCTURE FEE	1 20	DOLLARS/MONTH	
03/01/16 - 02/28/17	RENEWABLE ENERGY INFRASTRUCTURE COST		CENTS/KWH	
03/01/16 - 02/28/17	RECOVERY PROVISION	0.0099	CENTS/KWH	
04/01/16 - 04/30/16	SOLARSAVER ADJUSTMENT	-0.1835	CENTS/KWH	
05/01/16 - 03/31/17	SOLARSAVER ADJUSTMENT	0.0000	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	RENEWABLE ENERGY INFRASTRUCTURE COST	0.0098	CENTS/KWH	
	RECOVERY PROVISION			
04/01/17 - 04/30/17	SOLARSAVER ADJUSTMENT		CENTS/KWH	
05/01/17	SOLARSAVER ADJUSTMENT		CENTS/KWH	
06/01/17	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT		CENTS/KWH	
07/01/17	GREEN INFRASTRUCTURE FEE	1.18	DOLLARS/MONTH	
07/01/17	RESID. PBF SURCHARGE ADJUSTMENT	0.4244	CENTS/KWH	

[~] Surcharges currently in effect are in bold.

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