



July 29, 2019

FILED

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

2019 JUL 29 P 3:26

PUBLIC UTILITIES  
COMMISSION

Dear Commissioners:

Subject: Maui Electric Energy Cost Adjustment Factor for August 2019

Maui Electric Company, Limited's ("Maui Electric" or "Company") August 2019 Energy Cost Adjustment factor for our Maui Division is 2.938 cents per kilowatt-hour ("kWh"), a decrease of 0.121 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$178.02, a decrease of \$0.58 compared to rates effective July 1, 2019. The decrease in the typical residential bill is due to the decrease in the Energy Cost Adjustment factor (-\$0.61), partially offset by the increase in the Purchase Power Adjustment (+\$0.03).

The Company's Maui Division fuel composite cost of generation, central station and other decreased 79.21 cents per million BTU to 1,428.53 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy increased 0.228 cents per kWh to 19.702 cents per kWh.

The Energy Cost Adjustment factor for our Lāna'i Division for August 2019 is 3.232 cents per kWh, an increase of 0.144 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$171.84, an increase of \$0.58 compared to rates effective July 1, 2019. The increase in the typical residential bill is due to the increase in the Energy Cost Adjustment factor (+\$0.58).

The Company's Lāna'i Division fuel composite cost of generation, central station and other decreased 102.28 cents per million BTU to 2,022.05 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.

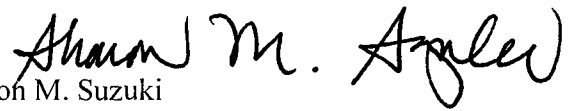
The Energy Cost Adjustment factor for our Moloka'i Division for August 2019 is 2.259 cents per kWh, a decrease of 0.912 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$155.00, a decrease of \$6.65 compared to rates effective July 1, 2019. The decrease in the typical residential bill is due to the decrease in the Energy Cost Adjustment factor (-\$3.64) and decrease in the Purchase Power Adjustment (-\$3.01).

The Honorable Chair and Members  
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The Company's Moloka'i Division fuel composite cost of generation, central station and other decreased 20.05 cents per million BTU to 1,683.20 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 August 1, 2019.

Sincerely,



Sharon M. Suzuki  
President

Attachments

cc: Division of Consumer Advocacy

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

**ENERGY COST ADJUSTMENT FACTOR**

	EFFECTIVE DATES		<u>Change</u>
	<u>07-01-19</u>	<u>08-01-19</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	1,703.25	1,683.20	(20.05)
DG Energy, ¢/kWh	0.00	0.00	0.00
Purchased Energy, ¢/kWh	21.80	21.80	0.00
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment, ¢/kWh	3.171	2.259	(0.912)
<u>Others - "G,P,F"</u>			
Energy Cost Adjustment, ¢/kWh	3.171	2.259	(0.912)
<u>Residential Customer with</u>			
400 KWH Consumption, \$/Bill	161.65	155.00	(6.65)
500 KWH Consumption, \$/Bill	200.57	192.25	(8.32)

Supersedes Sheet Effective:

July 1, 2019

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

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

<u>Line</u>		
1	Effective Date	August 1, 2019
2	Supercedes Factors	July 1, 2019

**GENERATION COMPONENT**

<b>CENTRAL STATION</b>							
FUEL PRICES, ¢/mmbtu							
3	Industrial						
4	Diesel			1,683.20			
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))			1,683.20			
10	% Input to System kWh Mix			99.98			
EFFICIENCY FACTOR, mmbtu/kWh							
	(A)	(B)	(C)	(D)			
			Percent of				
		Eff Factor	Centrl Stn +	Weighted			
	<u>Fuel Type</u>	<u>mmbtu/kwh</u>	<u>Other</u>	<u>Eff Factor</u>			
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))			18.72582			
16	BASE CENTRAL STATION + OTHER GENERATION COST, ¢/mmbtu			1,448.39			
17	Base % Input to Sys kWh Mix			99.98			
18	Efficiency Factor, mmbtu/kwh			0.011127			
19	WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST ¢/kWh (lines (16 x 17 x 18))			16.11301			
20	COST LESS BASE (line(15 - 19))			2.61281			
21	Revenue Tax Req Multiplier			1.0975			
22	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (20 x 21))			2.86756			
					<b>DG ENERGY COMPONENT</b>		
					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)	2.86756
					34	DG (line 32)	0.00000
					35	TOTAL GENERATION FACTOR, ¢/kWh (lines 33 + 34)	2.86756

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

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

Line

1 Effective Date August 1, 2019  
2 Supercedes Factors July 1, 2019

Line	<b>PURCHASED ENERGY COMPONENT</b>	
	PURCHASED ENERGY PRICE, ¢/kWh	
36	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 (Lines (36 x 39) + (37 x 40) + (38 x 41))	21.800
43	% Input to System kWh Mix	0.02
44	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (lines (42 x 43))	0.00366
45	BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh	21.800
46	Base % Input to Sys kWh Mix	0.02
47	WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (lines (45 x 46))	0.00436
48	COST LESS BASE (lines (44 - 47))	(0.00070)
49	Loss Factor	1.098
50	Revenue Tax Req Multiplier	1.0975
51	PURCHASED ENERGY FACTOR, ¢/kWh (lines (48 x 49 x 50))	(0.00084)

Line

SYSTEM COMPOSITE CALCULATIONS

52	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (lines (35 + 51))	2.86672
53	Adjustment, ¢/kWh	0.000
54	ECA Reconciliation Adjustment	(0.608)
55	ECA FACTOR, ¢/kWh (lines (52 + 53 + 54))	2.259

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

**MONTH END FUEL OIL ESTIMATE**

	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
7/18/2019	9,350.79	53,580.00	904,292.69
Estimated Use	2,117.62	12,133.96	206,671.67
Estimated Received	-	-	-
Estimated Additional	-	-	-
Estimated End	<u>7,233.17</u>	<u>41,446.04</u>	<u>697,621.02</u>

Next Months Expense = \$ 96.4475 /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	\$ 96.4475	5.73 BTU/BBL	1683.20

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

**Contract Prices effective July 1, 2019**

<u>TYPE OF OIL BURNED</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>
<b>ULTRA LOW SULFUR DIESEL</b>		
Tax *	4.7918	83.63
Ocean Transportation	1.8939	33.05
Storage	5.0658	88.41
Wharfage	0.2900	5.06

\* 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.

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.

**MAUI ELECTRIC COMPANY, LTD.**  
**Molokai Division**  
**ECA Reconciliation Adjustment**

**August 2019**

1. Amount to be refunded	(\$42,700)
2. Monthly amount (1/3 x Line 1)	(\$14,233)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$15,621)
5. Estimated Sales (August 2019)	2,569 mwh
6. Adjustment (Line 4 ÷ Line 5)	-0.608 ¢/kwh



**MAUI ELECTRIC COMPANY, LTD.  
MOLOKAI DIVISION  
2019 FUEL OIL ADJUSTMENT RECONCILIATION SUMMARY  
(Thousand \$)**

<u>Line</u>	<u>Description</u>	Without Deadband 2nd Quarter <u>YTD Total</u>	collection by <u>company*</u>	Basis for Recon With Deadband 2nd Quarter <u>YTD Total</u>	collection by <u>company*</u>
Actual Costs					
1	Generation	\$2,707.8		\$2,707.8	
2	Distributed Generation	\$0.0		\$0.0	
3	Purch Power	<u>\$0.6</u>		<u>\$0.6</u>	
4	Total	\$2,708.4		\$2,708.4	
Fuel Filing Cost					
5	Generation	\$2,739.3		\$2,727.0	
6	Distributed Generation	\$0.0		\$0.0	
7	Purch Power	<u>\$0.6</u>		<u>\$0.6</u>	
8	Total	\$2,740.0		\$2,727.6	
Base Fuel Cost					
9	Generation	\$3,159.1		\$3,159.1	
10	Distributed Generation	\$0.0		\$0.0	
11	Purch Power	<u>\$0.6</u>		<u>\$0.6</u>	
12	Total	\$3,159.7		\$3,159.7	
13	FUEL - BASE COST (Line 8-12)	-\$419.7		-\$432.1	
14	ACTUAL FOA REVENUE LESS TAX	-\$385.1		-\$385.1	
15	FOA reconciliation adj for prior years	<u>\$5.7</u>		<u>\$5.7</u>	
16	ADJUSTED FOA LESS TAX	-\$390.8		-\$390.8	
17	FOA-(FUEL-BASE) (Line 16-13)	\$28.9		\$41.3	
ADJUSTMENTS					
18	Current year FOA accrual reversal	-\$2.6		-\$2.6	
19	Other prior year FOA	\$0.0		\$0.0	
20	Other	<u>\$0.0</u>		<u>\$0.0</u>	
21	2nd QUARTER FOA RECONCILIATION (Lines 17+18+19+20)	\$26.3	Over	\$38.7	Over
22	1st QUARTERLY FOA Reconciliation Recognized in FOA Rates			<u>-\$4.0</u>	Under
23	FOA Reconciliation to be Refunded August 2019 to October 2019 (Line 22- 21)			<u><u>-\$42.7</u></u>	To Be Refunded

\* Over means an over-collection by the company.  
Under means an under-collection by the company.

**MAUI ELECTRIC COMPANY, LTD.  
MOLOKAI DIVISION  
DEADBAND CALCULATION**

Determination of Efficiency Factor to use for Cost-Recovery Purposes  
Period: January 1, 2019 through June 30, 2019

	<u>Notes</u>	<u>YTD</u>
<b><u>Palaau Diesel</u></b>		
.	f	11,127
Palaau Diesel Deadband Definition, +/- BTU/kWh	d	<b>50</b>
Palaau Diesel Portion of Recorded Sales, MWh	a	13,872
Palaau Diesel Consumption (Recorded), MMBTU	b	152,768
Palaau Diesel Efficiency Factor (Recorded), BTU/kWh	c = (b/a)*1000	11,013
Lower limit of Palaau Diesel Deadband, BTU/kWh	e = f-d	11,077
Higher limit of Palaau Diesel Deadband, BTU/kWh	g = f+d	11,177
Palaau Diesel Efficiency Factor for cost-recovery, BTU/kWh	h = c, e, or g	<b>11,077</b>

MAUI ELECTRIC COMPANY, LTD.  
MOLOKAI DIVISION  
GENERATION FUEL FILING COST AND GENERATION BASE FUEL COST, WITHOUT and WITH DEADBAND

	2019	
	Without Deadband	With Deadband AS FILED
	<u>Jan 1 - Jun 30</u>	<u>Jan 1 - Jun 30</u>
<b><u>DIESEL FUEL FILING COST</u></b>		
Diesel Portion of Recorded Sales, MWH	13,872	13,872
Diesel Sales Efficiency Factor (mmbtu/kwh)	0.011127	0.011077
Mmbtu adjusted for Sales Efficiency Factor	154,352	153,658
\$/mmbtu	<u>\$17.7472</u>	<u>\$17.7472</u>
TOTAL DIESEL \$000s TO BE RECOVERED	\$2,739.3	\$2,727.0
TOTAL GENERATION FUEL FILING COST, \$000s	\$2,739.3	\$2,727.0
TOTAL GENERATION BASE FUEL COST , \$000s	\$3,159.1	\$3,159.1
TOTAL GENERATION FUEL FILING COST, \$000s YTD	\$2,739.3	\$2,727.0
TOTAL GENERATION BASE FUEL COST, \$000s YTD	\$3,159.1	\$3,159.1

**MAUI ELECTRIC COMPANY, LTD.  
MOLOKAI DIVISION  
2019 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 '18					(3,033)	(3,133)	2,348
January '19					(3,033)	(3,259)	(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	1,450	(1,171)
July					1,333		
August	42,700	(2)	167	42,533	(14,233)		

## 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			
	07-01-19	08-01-19	07-01-19	08-01-19	Difference	
<b>Base Rates</b>	effective date:	06/01/19	06/01/19			
Base Fuel/Energy Charge	¢/kWh	17.6887	17.6887	70.75	70.75	0.00
Non-fuel Fuel Energy Charge						
First 250 kWh per month	¢/kWh	14.0459	14.0459	35.11	35.11	0.00
Next 500 kWh 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
<b>Total Base Charges</b>				142.40	142.40	0.00
<b>IRP Refund</b>	% on base	0.000	0.000	0.00	0.00	0.00
<b>Revenue Balancing Rate Adjustment</b>	¢/kWh	0.8716	0.8716	3.49	3.49	0.00
<b>PBF Surcharge</b>	¢/kWh	0.4775	0.4775	1.91	1.91	0.00
<b>Renewable Energy Infrastructure Cost Recovery Provision</b>	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
<b>SolarSaver Adjustment</b>	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
<b>Refund of 2018 Interim</b>	% on base	0.00	0.00	0.00	0.00	0.00
<b>Purchased Power Adjustment</b>	¢/kWh	0.0000	-0.7518	0.00	-3.01	-3.01
<b>Energy Cost Adjustment</b>	¢/kWh	3.171	2.259	12.68	9.04	-3.64
<b>Green Infrastructure Fee</b>	\$	1.17	1.17	1.17	1.17	0.00
<b>Avg Residential Bill at 400 kwh</b>				161.65	155.00	

Increase (Decrease -)	-6.65
% Change	-4.11%

	Rate		Charge (\$) at 500 Kwh			
	07-01-19	08-01-19	07-01-19	08-01-19	Difference	
<b>Base Rates</b>	effective date:	06/01/19	06/01/19			
Base Fuel/Energy Charge	¢/kWh	17.6887	17.6887	88.44	88.44	0.00
Non-fuel Fuel Energy Charge						
First 250 kWh per month	¢/kWh	14.0459	14.0459	35.11	35.11	0.00
Next 500 kWh 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
<b>Total Base Charges</b>				176.79	176.79	0.00
<b>IRP Refund</b>	% on base	0.000	0.000	0.00	0.00	0.00
<b>Revenue Balancing Rate Adjustment</b>	¢/kWh	0.8716	0.8716	4.36	4.36	0.00
<b>PBF Surcharge</b>	¢/kWh	0.4775	0.4775	2.39	2.39	0.00
<b>Renewable Energy Infrastructure Cost Recovery Provision</b>	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
<b>SolarSaver Adjustment</b>	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
<b>Refund of 2018 Interim</b>	% on base	0.00	0.00	0.00	0.00	0.00
<b>Purchased Power Adjustment</b>	¢/kWh	0.0000	-0.7518	0.00	-3.76	-3.76
<b>Energy Cost Adjustment</b>	¢/kWh	3.171	2.259	15.86	11.30	-4.56
<b>Green Infrastructure Fee</b>	\$	1.17	1.17	1.17	1.17	0.00
<b>Avg Residential Bill at 500 kwh</b>				200.57	192.25	

Increase (Decrease -)	-8.32
% Change	-4.15%

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

<u>EFFECTIVE DATE</u>	<u>FUEL FACTOR CENTS / KWH RESIDENTIAL &amp; COMMERCIAL</u>	<u>RESIDENTIAL BILL (\$)</u>	
		<u>@ 400 KWH</u>	<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	136.35	169.65
November 1, 2017	-4.912	153.07	190.56
December 1, 2017	-5.591	150.36	187.16
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
August 1, 2019	2.259	155.00	192.25

**MAUI ELECTRIC COMPANY, LTD. -- Molokai 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>
08/01/13 - 05/31/19	FINAL RATE INCREASE (1.25%), DOCKET NO. 2011-0092 (2012 TEST YEAR)	
01/01/16 - 06/30/16	GREEN INFRASTRUCTURE FEE	1.30 DOLLARS/MONTH
03/01/16 - 02/28/17	RENEWABLE ENERGY INFRASTRUCTURE COST 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 - 08/16/17	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0098 CENTS/KWH
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
<b>08/17/17</b>	<b>RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION</b>	<b>0.0000 CENTS/KWH</b>
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
<b>05/01/19</b>	<b>SOLARSAVER ADJUSTMENT</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>	
06/01/19 - 06/30/19	REFUND OF INTERIM RATE INCREASE 2018 TEST YEAR	-2.00 PERCENT ON BASE
<b>06/01/19</b>	<b>REVENUE BALANCING ACCOUNT RATE ADJUSTMENT</b>	<b>0.8716 CENTS/KWH</b>
<b>07/01/19</b>	<b>RESID. PBF SURCHARGE ADJUSTMENT</b>	<b>0.4775 CENTS/KWH</b>
<b>07/01/19</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.17 DOLLARS/MONTH</b>
<b>08/01/19</b>	<b>PURCHASED POWER ADJUSTMENT</b>	<b>-0.7518 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.