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SHARON M. SUZUKI  
President

October 27, 2017

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 November 2017

Maui Electric Company, Limited's ("Maui Electric" or "Company") November 2017 Energy Cost Adjustment factor for our Maui Division is -5.305 cents per kilowatt-hour ("kWh"), an increase of 2.086 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$158.18, an increase of \$10.54 compared to rates effective October 1, 2017. The increase in the typical residential bill is due to the increase in the Energy Cost Adjustment factor (+\$10.43) and the increase in the Purchased Power Adjustment Clause rate (+\$0.11).

The Company's Maui Division fuel composite cost of generation, central station and other increased 208.68 cents per million BTU to 1,423.82 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy decreased 0.579 cents per kWh to 17.471 cents per kWh.

The Energy Cost Adjustment factor for our Lāna'i Division for November 2017 is -8.264 cents per kWh, an increase of 1.795 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$153.90, an increase of \$7.18 compared to rates effective October 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 218.45 cents per million BTU to 1,963.38 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.

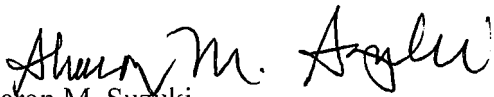
The Energy Cost Adjustment factor for our Moloka'i Division for November 2017 is -4.912 cents per kWh, an increase of 4.181 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$153.07, an increase of \$16.72 compared to rates effective October 1, 2017. The increase in the typical residential bill is due to the increase in the Energy Cost Adjustment factor.

The Honorable Chair and Members  
of the Hawai'i Public Utilities Commission  
October 27, 2017  
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The Company's Moloka'i Division fuel composite cost of generation, central station and other increased 347.32 cents per million BTU to 1,745.94 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 November 1, 2017.

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>10-01-17</u>	<u>11-01-17</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	1,398.62	1,745.94	347.32
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	(9.093)	(4.912)	4.181
<u>Others - "G,P,F"</u>			
Energy Cost Adjustment, ¢/kWh	(9.093)	(4.912)	4.181
<u>Residential Customer with</u>			
400 KWH Consumption, \$/Bill	136.35	153.07	16.72
500 KWH Consumption, \$/Bill	169.65	190.56	20.91

Supersedes Sheet Effective:

October 1, 2017

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

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

Line

1 Effective Date November 1, 2017  
2 Supercedes Factors October 1, 2017

**GENERATION COMPONENT**

<b><u>CENTRAL STATION</u></b>						
FUEL PRICES, ¢/mmbtu						
3	Industrial			0.00		
4	Diesel			1,745.94		
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))			1,745.94		
10	% Input to System kWh Mix			99.78		
EFFICIENCY FACTOR, mmbtu/kWh						
	(A)	(B)	(C)	(D)		
		Eff Factor	Percent of	Weighted		
	<u>Fuel Type</u>	<u>mmbtu/kwh</u>	<u>Centrl Stn + Other</u>	<u>Eff Factor</u>		
11	Industrial	0.000000	0.00	0.000000		
12	Diesel	0.011194	100.00	0.011194		
13	Other	0.011194	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)]			0.011194		
15	WEIGHTED COMPOSITE CENTRAL STATION + OTHER GENERATION COST, ¢/kWh (lines 9 x 10 x 14))			19.50195		
16	BASE CENTRAL STATION + OTHER GENERATION COST, ¢/mmbtu			2,144.57		
17	Base % Input to Sys kWh Mix			99.91		
18	Efficiency Factor, mmbtu/kwh			0.011194		
19	WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST ¢/kWh (lines 16 x 17 x 18))			23.98471		
20	COST LESS BASE (line(15 - 19))			(4.48276)		
21	Revenue Tax Req Multiplier			1.0975		
22	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (20 x 21))			(4.91983)		
					<b><u>DG ENERGY COMPONENT</u></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
						1.095
					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)
						-4.91983
					34	DG (line 32)
						0.00000
					35	TOTAL GENERATION FACTOR, ¢/kWh (lines 33 + 34)
						-4.91983

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

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

<u>Line</u>		
1	Effective Date	November 1, 2017
2	Supercedes Factors	October 1, 2017

<u>Line</u>	<u>PURCHASED ENERGY COMPONENT</u>	
	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	0.22
44	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (lines (42 x 43))	0.04796
45	BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh	21.800
46	Base % Input to Sys kWh Mix	0.09
47	WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (lines (45 x 46))	0.01962
48	COST LESS BASE (lines (44 - 47))	0.02834
49	Loss Factor	1.095
50	Revenue Tax Req Multiplier	1.0975
51	PURCHASED ENERGY FACTOR, ¢/kWh (lines (48 x 49 x 50))	0.03406

<u>Line</u>	<u>SYSTEM COMPOSITE CALCULATIONS</u>	
52	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (lines (35 + 51))	(4.88577)
53	Adjustment, ¢/kWh	0.000
54	ECA Reconciliation Adjustment	(0.026)
55	ECA FACTOR, ¢/kWh (lines (52 + 53 + 54))	(4.912)

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

**MONTH END FUEL OIL ESTIMATE**

	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
10/20/2017	5,332.36	30,554.41	559,456.53
Estimated Use	1,773.05	10,159.58	142,094.18
Estimated Received	5,800.00	33,234.00	518,965.00
Estimated Additional	-	-	-
Estimated End	<u>9,359.31</u>	<u>53,628.83</u>	<u>936,327.35</u>

Next Months Expense = \$ 100.0423 /bbl

**FUEL OIL INVENTORY PRICE USED FOR FILING**

<u>Type of Oil Burned</u>	<u>Price</u>		<u>Prices ¢/MBTU</u>
Diesel	\$ 100.0423	5.73 BTU/BBL	1745.94

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

**Contract Prices effective October 1, 2017**

<u>TYPE OF OIL BURNED</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>
<b>ULTRA LOW SULFUR DIESEL</b>		
Tax *	2.1353	37.27
Ocean Transportation	1.6828	28.71
Storage	4.6440	81.05
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**

**November 2017**

1. Amount to be refunded	(\$1,600)
2. Monthly amount (1/3 x Line 1)	(\$533)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$585)
5. Estimated Sales (November 2017)	2,222 mwh
6. Adjustment (Line 4 ÷ Line 5)	-0.026 ¢/kwh



**MAUI ELECTRIC COMPANY, LTD.  
MOLOKAI DIVISION  
2017 FUEL OIL ADJUSTMENT RECONCILIATION SUMMARY  
(Thousand \$)**

<u>Line</u>	<u>Description</u>	Without Deadband 3rd Quarter <u>YTD Total</u>	collection by <u>company*</u>	Basis for Recon With Deadband 3rd Quarter <u>YTD Total</u>	collection by <u>company*</u>
Actual Costs					
1	Generation	\$3,257.4		\$3,257.4	
2	Distributed Generation	\$0.0		\$0.0	
3	Purch Power	<u>\$0.9</u>		<u>\$0.9</u>	
4	Total	\$3,258.3		\$3,258.3	
Fuel Filing Cost					
5	Generation	\$3,309.9		\$3,295.1	
6	Distributed Generation	\$0.0		\$0.0	
7	Purch Power	<u>\$0.9</u>		<u>\$0.9</u>	
8	Total	\$3,310.8		\$3,296.0	
Base Fuel Cost					
9	Generation	\$5,058.3		\$5,058.3	
10	Distributed Generation	\$0.0		\$0.0	
11	Purch Power	<u>\$0.9</u>		<u>\$0.9</u>	
12	Total	\$5,059.2		\$5,059.2	
13	FUEL - BASE COST (Line 8-12)	-\$1,748.4		-\$1,763.2	
14	ACTUAL FOA REVENUE LESS TAX	-\$1,739.0		-\$1,739.0	
15	FOA reconciliation adj for prior years	<u>\$23.7</u>		<u>\$23.7</u>	
16	ADJUSTED FOA LESS TAX	-\$1,762.7		-\$1,762.7	
17	FOA-(FUEL-BASE) (Line 16-13)	-\$14.3		\$0.5	
ADJUSTMENTS					
18	Current year FOA accrual reversal	-\$5.8		-\$5.8	
19	Other prior year FOA	\$0.0		\$0.0	
20	Other	<u>\$0.0</u>		<u>\$0.0</u>	
21	3rd QUARTER FOA RECONCILIATION (Lines 17+18+19+20)	-\$20.1	Under	-\$5.3	Under
22	2nd QUARTERLY YTD 2017 FOA Reconciliation Recognized in FOA Rates			<u>-\$6.9</u>	Under
23	FOA Reconciliation to be Refunded November 2017 to January 2018 (Line 22- 21)			<u><u>-\$1.6</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, 2017 through September 30, 2017

	<u>Notes</u>	<u>Jan 1 - Sep 30</u>
<b><u>Palaau Diesel</u></b>		
Palaau Diesel Efficiency Factor (TY2009), BTU/kWh	f	11,194
Palaau Diesel Deadband Definition, +/- BTU/kWh	d	<b>50</b>
Palaau Diesel Portion of Recorded Sales, MWh	a	21,071
Palaau Diesel Consumption (Recorded), MMBTU	b	232,015
Palaau Diesel Efficiency Factor (Recorded), BTU/kWh	c = (b/a)*1000	11,011
Lower limit of Palaau Diesel Deadband, BTU/kWh	e = f-d	11,144
Higher limit of Palaau Diesel Deadband, BTU/kWh	g = f+d	11,244
Palaau Diesel Efficiency Factor for cost-recovery, BTU/kWh	h = c, e, or g	<b>11,144</b>

MAUI ELECTRIC COMPANY, LTD.  
MOLOKAI DIVISION  
GENERATION FUEL FILING COST AND GENERATION BASE FUEL COST, WITHOUT and WITH DEADBAND  
2017

	<u>Without Deadband</u>	<u>With Deadband - AS FILED</u>
	<u>Jan 1 - Sep 30</u>	<u>Jan 1 - Sep 30</u>
<u>DIESEL FUEL FILING COST</u>		
Diesel Portion of Recorded Sales, MWH	21,071	21,071
Diesel Sales Efficiency Factor (mmbtu/kwh)	0.011194	0.011144
Mmbtu adjusted for Sales Efficiency Factor	235,866	234,812
\$/mmbtu	<u>\$14.0329</u>	<u>\$14.0329</u>
TOTAL DIESEL \$000s TO BE RECOVERED	\$3,309.9	\$3,295.1
TOTAL GENERATION FUEL FILING COST, \$000s	\$3,309.9	\$3,295.1
TOTAL GENERATION BASE FUEL COST, \$000s YTD	\$5,058.3	\$5,058.3
TOTAL GENERATION FUEL FILING COST, \$000s YTD	\$3,309.9	\$3,295.1
TOTAL GENERATION BASE FUEL COST, \$000s YTD	\$5,058.3	\$5,058.3

**MAUI ELECTRIC COMPANY, LTD.  
MOLOKAI DIVISION  
2017 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 '16					9,300	9,580	(8,349)
January '17					9,300	10,066	1,717
February	(14,400)	(4)	957	(15,357)	4,800	4,589	(9,051)
March					4,800	5,142	(3,909)
April					4,800	5,253	1,344
May	(3,600)	(1)	897	(4,497)	1,200	1,209	(1,944)
June					1,200	1,373	(571)
July					1,200	1,327	756
August	(3,300)	(2)	635	(3,935)	1,100	1,271	(1,908)
September					1,100	1,216	(692)
October					1,100		
November	1,600	(3)	414	1,186	(533)		

## 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		
		10-01-17	11-01-17	10-01-17	11-01-17	Difference
<b>Base Rates</b>	effective date:	08/01/13	08/01/13			
Base Fuel/Energy Charge	¢/kWh	26.3468	26.3468	105.39	105.39	0.00
Non-fuel Fuel Energy Charge						
First 250 kWhr per month	¢/kWh	11.4278	11.4278	28.57	28.57	0.00
Next 500 kWhr per month	¢/kWh	14.0778	14.0778	21.12	21.12	0.00
Customer Charge	\$	8.50	8.50	8.50	8.50	0.00
<b>Total Base Charges</b>				163.58	163.58	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	1.5654	1.5654	6.26	6.26	0.00
<b>PBF Surcharge</b>	¢/kWh	0.4244	0.4244	1.70	1.70	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>Energy Cost Adjustment</b>	¢/kWh	-9.093	-4.912	-36.37	-19.65	16.72
<b>Green Infrastructure Fee</b>	\$	1.18	1.18	1.18	1.18	0.00
<b>Avg Residential Bill at 400 kwh</b>				136.35	153.07	

Increase (Decrease -)	16.72
% Change	12.26%

	Rate			Charge (\$) at 500 Kwh		
		10-01-17	11-01-17	10-01-17	11-01-17	Difference
<b>Base Rates</b>	effective date:	08/01/13	08/01/13			
Base Fuel/Energy Charge	¢/kWh	26.3468	26.3468	131.73	131.73	0.00
Non-fuel Fuel Energy Charge						
First 250 kWhr per month	¢/kWh	11.4278	11.4278	28.57	28.57	0.00
Next 500 kWhr per month	¢/kWh	14.0778	14.0778	35.19	35.19	0.00
Customer Charge	\$	8.50	8.50	8.50	8.50	0.00
<b>Total Base Charges</b>				203.99	203.99	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	1.5654	1.5654	7.83	7.83	0.00
<b>PBF Surcharge</b>	¢/kWh	0.4244	0.4244	2.12	2.12	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>Energy Cost Adjustment</b>	¢/kWh	-9.093	-4.912	-45.47	-24.56	20.91
<b>Green Infrastructure Fee</b>	\$	1.18	1.18	1.18	1.18	0.00
<b>Avg Residential Bill at 500 kwh</b>				169.65	190.56	

Increase (Decrease -)	20.91
% Change	12.33%

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

<u>EFFECTIVE DATE</u>	<u>FUEL FACTOR</u> <u>CENTS / KWH</u>		<u>RESIDENTIAL BILL (\$)</u>	
	<u>RESIDENTIAL &amp; COMMERCIAL</u>		<u>@ 400 KWH</u>	<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		129.95	161.66
October 1, 2017	-9.093		136.35	169.65
November 1, 2017	-4.912		153.07	190.56

**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>
<b>08/01/13</b>	<b>FINAL RATE INCREASE (1.25%), DOCKET NO. 2011-0092 (2012 TEST YEAR)</b>	
04/01/15 - 04/30/15	SOLARSAVER ADJUSTMENT	-0.2744 CENTS/KWH
05/01/15 - 03/31/16	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/15 - 06/07/15	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.0000 CENTS/KWH
06/08/15 - 05/31/16	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.5987 CENTS/KWH
07/01/15 - 06/30/16	RESID. PBF SURCHARGE ADJUSTMENT	0.4749 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	1.30 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
<b>03/01/17</b>	<b>RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION</b>	<b>0.0098 CENTS/KWH</b>
04/01/17 - 04/30/17	SOLARSAVER ADJUSTMENT	-0.1378 CENTS/KWH
<b>05/01/17</b>	<b>SOLARSAVER ADJUSTMENT</b>	<b>0.0000 CENTS/KWH</b>
<b>06/01/17</b>	<b>REVENUE BALANCING ACCOUNT RATE ADJUSTMENT</b>	<b>1.5654 CENTS/KWH</b>
<b>07/01/17</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.18 DOLLARS/MONTH</b>
<b>07/01/17</b>	<b>RESID. PBF SURCHARGE ADJUSTMENT</b>	<b>0.4244 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.