



FILED

April 26, 2019

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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

PUBLIC UTILITIES  
COMMISSION

Dear Commissioners:

Subject: Maui Electric Energy Cost Adjustment Factor for May 2019

Maui Electric Company, Limited's ("Maui Electric" or "Company") May 2019 Energy Cost Adjustment factor for our Maui Division is -4.041 cents per kilowatt-hour ("kWh"), an increase of 1.400 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$171.40, an increase of \$7.41 compared to rates effective April 1, 2019. The increase in the typical residential bill is due to the increase in the Energy Cost Adjustment factor (+\$7.00) and termination of the Solar Saver Adjustment credit (+\$0.43), partially offset by the decrease in the Purchase Power Adjustment (-\$0.02).

The Company's Maui Division fuel composite cost of generation, central station and other increased 69.51 cents per million BTU to 1,471.92 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy decreased 0.426 cents per kWh to 19.405 cents per kWh.

The Energy Cost Adjustment factor for our Lāna'i Division for May 2019 is -7.864 cents per kWh, a decrease of 1.063 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$162.15, a decrease of \$3.92 compared to rates effective April 1, 2019. The decrease in the typical residential bill is due to the decrease in the Energy Cost Adjustment factor (-\$4.26), partially offset by the termination of the Solar Saver Adjustment credit (+\$0.34).

The Company's Lāna'i Division fuel composite cost of generation, central station and other increased 7.34 cents per million BTU to 2039.71 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 May 2019 is -3.503 cents per kWh, an increase of 1.531 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$164.98, an increase of \$6.47 compared to rates effective April 1, 2019. The increase in the typical residential bill is due to the

The Honorable Chair and Members  
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increase in the Energy Cost Adjustment factor (+\$6.13) and termination of the Solar Saver Adjustment credit (+\$0.34).

The Company's Moloka'i Division fuel composite cost of generation, central station and other increased 131.12 cents per million BTU to 1,854.36 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 May 1, 2019.

Sincerely,



Sharon M. Suzuki  
President

Attachments

cc: Division of Consumer Advocacy

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

**ENERGY COST ADJUSTMENT FACTOR**

	EFFECTIVE DATES		<u>Change</u>
	<u>04-01-19</u>	<u>05-01-19</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	2,032.37	2,039.71	7.34
DG Energy, ¢/kWh	0.00	0.00	0.00
Purchased Energy, ¢/kWh	30.00	30.00	0.00
 <u>Residential Schedule "R"</u>			
Energy Cost Adjustment, ¢/kWh	(6.801)	(7.864)	(1.063)
 <u>Others - "G,P,F"</u>			
Energy Cost Adjustment, ¢/kWh	(6.801)	(7.864)	(1.063)
 <u>Residential Customer with</u>			
400 KWH Consumption, \$/Bill	166.07	162.15	(3.92)
500 KWH Consumption, \$/Bill	206.63	201.75	(4.88)

Supersedes Sheet Effective:

April 1, 2019

MAUI ELECTRIC COMPANY, LTD.  
LANAI DIVISION

ENERGY COST ADJUSTMENT (ECA) FILING

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

Line

- 1 Effective Date May 1, 2019
- 2 Supercedes Factors of April 1, 2019

GENERATION COMPONENT

<u>CENTRAL STATION</u>						
FUEL PRICES, ¢/mmbtu						
3	Industrial			0.00		
4	Diesel - Miki Basin			2,057.99		
5	Diesel - Manele Bay			1,822.70		
6	Other			0.00		
BTU MIX, %						
7	Industrial			0.00%		
8	Diesel - Miki Basin			92.23%		
9	Diesel - Manele Bay			7.77%		
10	Other			0.00%		
				100.00%		
11	COMPOSITE COST OF GENERATION, CENTRAL STATION + OTHER ¢/mmbtu (Lines (3 x 7) + (4 x 8) + (5 x 9) + (6 x 10))			2,039.71		
12	% Input to System kWh Mix			93.14%		
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>		
13	Industrial	0.000000	0.00	0.000000		
14	Diesel	0.011151	100.00	0.011151		
15	Other	0.011151	0.00	0.000000		
	(Lines 13, 14, 15): Col(B) x Col(C) = Col(D)					
16	Weighted Efficiency Factor, mmbtu/kWh [lines 13(D) + 14(D) + 15(D)]			0.011151		
17	WEIGHTED COMPOSITE CENTRAL STATION + OTHER GEN COST, ¢/kWh (lines (11 x 12 x 16))			21.18451		
18	BASE CENTRAL STATION + OTHER GENERATION COST, ¢/mmbtu			2,647.15		
19	Base % Input to Sys kWh Mix			89.65%		
20	Efficiency Factor, mmbtu/kwh			0.011151		
21	WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST ¢/kWh (lines (18 x 19 x 20))			26.46322		
22	COST LESS BASE (line(17 - 21))			(5.27871)		
23	Revenue Tax Req Multiplier			1.0975		
24	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (22 x 23))			-5.79338		
					<u>DG ENERGY COMPONENT</u>	
	25	COMPOSITE COST OF DG ENERGY, ¢/kWh			0.000	
	26	% Input to System kWh Mix			0.00%	
	27	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 25 x 26)			0.00000	
	28	BASE DG ENERGY COMP COST			0.000	
	29	Base % Input to System kWh Mix			0.00%	
	30	WEIGHTED BASE DG ENERGY COST, ¢/kWh (Line 28 x 29)			0.00000	
	31	Cost Less Base (Line 27 - 30)			0.00000	
	32	Loss Factor			1.0510	
	33	Revenue Tax Req Multiplier			1.0975	
	34	DG FACTOR, ¢/kWh (Line 31 x 32 x 33)			0.00000	
					SUMMARY OF	
					TOTAL GENERATION FACTOR, ¢/kWh	
	35	CNTRL STN + OTHER (line 24)			(5.79338)	
	36	DG (line 34)			-	
	37	TOTAL GENERATION FACTOR, ¢/kWh (lines 35 + 36)			(5.79338)	

MAUI ELECTRIC COMPANY, LTD.  
LANAI DIVISION

ENERGY COST ADJUSTMENT (ECA) FILING

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

Line

- 1 Effective Date May 1, 2019
- 2 Supercedes Factors of April 1, 2019

<u>Line</u>	<u>PURCHASED ENERGY COMPONENT</u>	
	PURCHASED ENERGY PRICE, ¢/kWh	
38	LANAI SOLAR RESEARCH - On Peak	30.000
39	- Off Peak	30.000
40	Sch Q	0.000
	PURCHASED ENERGY KWH MIX, %	
41	LANAI SOLAR RESEARCH - On Peak	100.00%
42	- Off Peak	0.00%
43	Sch Q	0.00%
44	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh (Lines (38 x 41) + (39 x 42) + (40 x 43))	30.000
45	% Input to System kWh Mix	6.86%
46	WEIGHTED COMP. PURCH. ENERGY COST, ¢/kWh (lines (44 x 45))	2.05800
47	BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh	27.000
48	Base % Input to Sys kWh Mix	10.35
49	WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (lines (47 x 48))	2.79450
50	COST LESS BASE(lines (46 - 49))	(0.73650)
51	Loss Factor	1.051
52	Revenue Tax Req Multiplier	1.0975
53	PURCHASED ENERGY FACTOR, ¢/kWh (lines (50 x 51 x 52))	(0.84953)

Line      SYSTEM COMPOSITE CALCULATIONS

54	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (lines (37 + 53))	(6.64291)
55	Adjustment, ¢/kWh	0.000
56	ECA Reconciliation Adjustment	(1.221)
57	ECA FACTOR, ¢/kWh (lines (54 + 55 + 56))	(7.864)

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

**MONTH END FUEL OIL ESTIMATE**

<b><u>Miki Basin - ULSD</u></b>	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
4/18/2019	4,496.98	25,767.75	533,847.10
Estimated Use	1,418.60	8,128.58	162,897.52
Estimated Received	1,714.29	9,822.88	194,216.89
Estimated Additional	-	-	-
Estimated End	<u>4,792.67</u>	<u>27,462.05</u>	<u>565,166.47</u>

Next Month's Combined Miki Expense (\$/bbl) = \$ 117.9231 /bbl

<b><u>Manele CHP</u></b>	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
4/18/2019	109.38	626.75	9,513.49
Estimated Use	285.33	1,634.94	39,727.59
Estimated Received	214.29	1,227.88	26,002.01
Estimated Additional	341.59	1,957.31	43,892.29
Estimated End	<u>379.93</u>	<u>2,177.00</u>	<u>39,680.20</u>

Next Month's Manele Expense (\$/bbl) = \$ 104.4408 /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 - Miki Basin	\$ 117.9231	5.73 BTU/BBL	2,057.99
Diesel - Manele Bay	\$ 104.4408	5.73 BTU/BBL	1,822.70

MAUI ELECTRIC COMPANY, LTD.  
LANAI DIVISION

Contract Prices effective April 1, 2019

<u>TYPE OF OIL BURNED</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>
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**MIKI BASIN - ULTRA LOW SULFUR DIESEL (DYED)**

Tax *	1.5120	26.39
Ocean Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.0000	0.00

**MIKI BASIN - ULTRA LOW SULFUR DIESEL**

Tax *	16.5104	288.14
Ocean Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.0000	0.00

**MANELE BAY - ULTRA LOW SULFUR DIESEL**

Tax *	16.5104	288.14
Ocean Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.0000	0.00

\* Tax includes HGET, Hawaii Use Tax, Liquid Fuel Tax, LUST tax, Environmental Response Tax, Customs Duty Fee, Fed Oil Spill Recovery Fee, Federal Oil Spill Liability Tax, 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.**  
**Lanai Division**  
**ECA Reconciliation Adjustment**

**May 2019**

1. Amount to be refunded	(\$91,900)
2. Monthly amount (1 / 3 X Line 1)	(\$30,633)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$33,620)
5. Estimated Sales (May 2019)	2,754 mwh
6. Adjustment (Line 4 ÷ Line 5)	-1.221 ¢/kwh



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

<u>Line</u>	Without Deadband 1st Quarter <u>YTD Total</u>	collection by <u>company*</u>	Basis for Recon With Deadband 1st Quarter <u>YTD Total</u>	collection by <u>company*</u>
ACTUAL COSTS:				
1	\$1,413.7		\$1,413.7	
2	\$0.0		\$0.0	
3	<u>\$106.9</u>		<u>\$106.9</u>	
4	\$1,520.6		\$1,520.6	
FUEL FILING COST				
5	\$1,508.1		\$1,501.3	
6	\$0.0		\$0.0	
7	<u>\$106.9</u>		<u>\$106.9</u>	
8	\$1,615.0		\$1,608.2	
BASE FUEL COST				
9	\$2,060.8		\$2,060.8	
10	\$0.0		\$0.0	
11	<u>\$104.7</u>		<u>\$104.7</u>	
12	\$2,165.6		\$2,165.6	
13	-\$550.6		-\$557.4	
14	-\$483.2		-\$483.2	
15	<u>-\$17.7</u>		<u>-\$17.7</u>	
16	-\$465.5		-\$465.5	
17	\$85.1	Over	\$91.9	Over
ADJUSTMENTS				
18	\$0.0		\$0.0	
19	\$0.0		\$0.0	
20	<u>\$0.0</u>		<u>\$0.0</u>	
21	\$85.1	Over	\$91.9	Over
22			<u>\$0.0</u>	
23			<u><u>-\$91.9</u></u>	Refunded

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

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

Determination of Efficiency Factor to use for Cost-Recovery Purposes  
Period: January 1, 2019 through March 31, 2019

	<u>Notes</u>	<u>YTD</u>
<b><u>Diesel</u></b>		
Diesel Efficiency Factor (TY2018), BTU/kWh	f	11,017
Diesel Deadband Definition, +/- BTU/kWh	d	<b>50</b>
Diesel Portion of Recorded Sales, MWh	a	7,010
Diesel Consumption (Recorded), MMBTU	b	72,423
Diesel Efficiency Factor (Recorded), BTU/kWh	c = (b/a)*1000	10,332
Lower limit of Diesel Deadband, BTU/kWh	e = f-d	10,967
Higher limit of Diesel Deadband, BTU/kWh	g = f+d	11,067
Diesel Efficiency Factor for cost-recovery, BTU/kWh	h = c, e, or g	<b>10,967</b>

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

**GENERATION FUEL FILING COST AND GENERATION BASE FUEL COST, WITHOUT and WITH DEADBAND**

	2019	
	Without Deadband	With Deadband AS FILED
	<u>Jan 1 - Mar 31</u>	<u>Jan 1 - Mar 31</u>
Diesel Portion of Recorded Sales, MWH	7,010	7,010
Diesel Sales Efficiency Factor (mmbtu/kwh)	0.011017	0.010967
Mmbtu adjusted for Sales Efficiency Factor	77,224	76,874
\$/mmbtu	<u>\$19,5291</u>	<u>\$19,5291</u>
TOTAL DIESEL \$000s TO BE RECOVERED	\$1,508.1	\$1,501.3
TOTAL GENERATION FUEL FILING COST, \$000s	\$1,508.1	\$1,501.3
TOTAL GENERATION BASE FUEL COST , \$000s	\$2,060.8	\$2,060.8
TOTAL GENERATION FUEL FILING COST, \$000s YTD	\$1,508.1	\$1,501.3
TOTAL GENERATION BASE FUEL COST, \$000s YTD	\$2,060.8	\$2,060.8

**MAUI ELECTRIC COMPANY, LTD.  
LANAI DIVISION  
2019 Cumulative Reconciliation Balance**

<u>Month</u>	(1) <u>YTD FOA</u>	<u>Qtr</u>	(2) <u>FOA Rec</u> <u>Adjust</u> <u>Variance</u>	(3) <u>FOA Rec</u> <u>Less</u> <u>Variance</u>	(4) <u>Try to</u> <u>Collect</u>	(5) <u>Actual</u> <u>Collect</u>	(6) <u>Month-end</u> <u>Cumulative</u> <u>Balance</u>
December '18					(11,867)	(11,797)	11,475
January '19					(11,867)	(11,150)	325
February	8,600	(4)	(386)	8,986	(2,867)	(1,424)	7,887
March					(2,867)	(1,428)	6,459
April					(2,867)		
May	91,900	(1)	3,599	88,301	(30,633)		

## NOTES:

- Col(1): Quarterly FOA reconciliation amounts. (Refer to Attachment 13)  
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.  
Lanai Division  
Calculations of the Average Residential Customer Bill**

	Rate		Charge (\$) at 400 Kwh			
	04-01-19	05-01-19	04-01-19	05-01-19	Difference	
<b>Base Rates</b>	effective date:	08/01/13	08/01/13			
Base Fuel/Energy Charge	¢/kWh	32.2668	32.2668	129.07	129.07	0.00
Non-fuel Fuel Energy Charge						
First 250 kWhr per month	¢/kWh	9.1240	9.1240	22.81	22.81	0.00
Next 500 kWhr per month	¢/kWh	11.6240	11.6240	17.44	17.44	0.00
Customer Charge	\$	8.50	8.50	8.50	8.50	0.00
<b>Total Base Charges</b>				177.82	177.82	0.00
<b>IRP Refund</b>	% on base	0.0000	0.0000	0.00	0.00	0.00
<b>Revenue Balancing Rate Adjustment</b>	¢/kWh	0.3183	0.3183	1.27	1.27	0.00
<b>PBF Surcharge</b>	¢/kWh	0.4658	0.4658	1.86	1.86	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	-0.0855	0.0000	-0.34	0.00	0.34
<b>Interim Rate Increase (Test Year 2018)</b>	% on Base	6.36	6.36	11.31	11.31	0.00
<b>Energy Cost Adjustment</b>	¢/kWh	-6.801	-7.864	-27.20	-31.46	-4.26
<b>Green Infrastructure Fee</b>	\$	1.35	1.35	1.35	1.35	0.00
<b>Avg Residential Bill at 400 kwh</b>				166.07	162.15	
				Increase (Decrease -)		-3.92
				% Change		-2.36%

	Rate		Charge (\$) at 500 Kwh			
	04-01-19	05-01-19	04-01-19	05-01-19	Difference	
<b>Base Rates</b>	effective date:	08/01/13	08/01/13			
Base Fuel/Energy Charge	¢/kWh	32.2668	32.2668	161.33	161.33	0.00
Non-fuel Fuel Energy Charge						
First 250 kWhr per month	¢/kWh	9.1240	9.1240	22.81	22.81	0.00
Next 500 kWhr per month	¢/kWh	11.6240	11.6240	29.06	29.06	0.00
Customer Charge	\$	8.50	8.50	8.50	8.50	0.00
<b>Total Base Charges</b>				221.70	221.70	0.00
<b>IRP Refund</b>	% on base	0.0000	0.0000	0.00	0.00	0.00
<b>Revenue Balancing Rate Adjustment</b>	¢/kWh	0.3183	0.3183	1.59	1.59	0.00
<b>PBF Surcharge</b>	¢/kWh	0.4658	0.4658	2.33	2.33	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	-0.0855	0.0000	-0.43	0.00	0.43
<b>Interim Rate Increase (Test Year 2018)</b>	% on Base	6.36	6.36	14.10	14.10	0.00
<b>Energy Cost Adjustment</b>	¢/kWh	-6.801	-7.864	-34.01	-39.32	-5.31
<b>Green Infrastructure Fee</b>	\$	1.35	1.35	1.35	1.35	0.00
<b>Avg Residential Bill at 500 kwh</b>				206.63	201.75	
				Increase (Decrease -)		-4.88
				% Change		-2.36%

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

<u>EFFECTIVE DATE</u>	FUEL FACTOR CENTS / KWH		RESIDENTIAL BILL (\$)
	<u>RESIDENTIAL &amp; COMMERCIAL</u>	<u>@ 400 KWH</u>	<u>@ 500 KWH</u>
January 1, 2017	-11.861	139.67	173.68
February 1, 2017	-11.218	142.24	176.90
March 1, 2017	-10.975	143.21	178.11
April 1, 2017	-10.875	143.06	177.92
May 1, 2017	-11.993	139.14	173.02
June 1, 2017	-11.149	143.14	178.03
July 1, 2017	-11.181	142.28	176.97
August 1, 2017	-11.659	140.36	174.58
September 1, 2017	-10.389	145.40	180.88
October 1, 2017	-10.059	166.07	206.63
November 1, 2017	-8.264	153.90	191.51
December 1, 2017	-9.353	149.55	186.06
January 1, 2018	-8.358	153.69	191.20
February 1, 2018	-8.395	153.54	191.01
March 1, 2018	-7.868	155.65	193.65
April 1, 2018	-9.141	150.05	186.64
May 1, 2018	-7.716	156.26	194.41
June 1, 2018	-6.144	163.86	203.92
July 1, 2018	-5.753	165.46	205.95
August 1, 2018	-7.005	160.45	199.69
September 1, 2018	-6.735	166.53	207.25
October 1, 2018	-6.372	167.98	209.07
November 1, 2018	-6.037	169.32	210.74
December 1, 2018	-5.396	171.89	213.95
January 1, 2019	-6.950	165.81	206.32
February 1, 2019	-8.789	158.45	197.12
March 1, 2019	-6.041	169.45	210.86
April 1, 2019	-6.801	166.07	206.63
May 1, 2019	-7.864	162.15	201.75

**MAUI ELECTRIC COMPANY, LTD. -- Lanai Division  
RESIDENTIAL SURCHARGE DATA**

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
01/01/11 - 12/31/11	RESID. PBF SURCHARGE ADJUSTMENT	0.5944 CENTS/KWH
<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>	
01/01/16 - 06/30/16	GREEN INFRASTRUCTURE FEE	1.3000 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
06/01/17 - 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
07/01/17 - 06/30/18	RESID. PBF SURCHARGE ADJUSTMENT	0.4244 CENTS/KWH
<b>08/17/17</b>	<b>RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION</b>	<b>0.0000 CENTS/KWH</b>
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
<b>07/01/18</b>	<b>RESID. PBF SURCHARGE ADJUSTMENT</b>	<b>0.4658 CENTS/KWH</b>
07/01/18 - 12/31/18	GREEN INFRASTRUCTURE FEE	1.21 DOLLARS/MONTH
<b>08/23/18</b>	<b>INTERIM RATE INCREASE 2018 TEST YEAR</b>	<b>6.36 PERCENT ON BASE</b>
<b>08/23/18</b>	<b>REVENUE BALANCING ACCOUNT RATE ADJUSTMENT</b>	<b>0.3183 CENTS/KWH</b>
<b>01/01/19</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.35 DOLLARS/MONTH</b>
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>

~ Surcharges currently in effect are in bold.

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