



FILED

September 26, 2019

2019 SEP 26 P 3: 17

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 Recovery Factor for October 2019

Maui Electric Company, Limited's ("Maui Electric" or "Company") October 2019 Energy Cost Recovery factor for our Maui Division is 17.098 cents per kilowatt-hour ("kWh"), a decrease of 0.970 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$168.93, a decrease of \$4.84 compared to rates effective September 1, 2019. The decrease in the typical residential bill is due to the decrease in the Energy Cost Recovery Factor (-\$4.85), partially offset by the increase in the Purchase Power Adjustment (+\$0.01).

The Company's Maui Division fuel composite cost of generation, central station and other decreased 33.00 cents per million BTU to 1,387.47 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy decreased 1.296 cents per kWh to 18.218 cents per kWh.

The Energy Cost Recovery factor for our Lāna'i Division for October 2019 is 24.957 cents per kWh, an increase of 0.679 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$170.90, an increase of \$2.72 compared to rates effective September 1, 2019. The increase in the typical residential bill is due to the increase of the Energy Cost Recovery factor (+\$2.72).

The Company's Lāna'i Division fuel composite cost of generation, central station and other increased 63.61 cents per million BTU to 2,008.94 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.

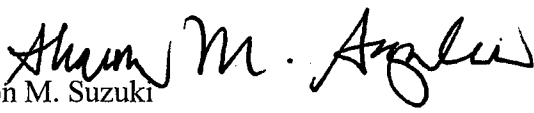
The Energy Cost Recovery factor for our Moloka'i Division for October 2019 is 19.071 cents per kWh, a decrease of 0.278 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$151.51, a decrease of \$0.98 compared to rates effective September 1, 2019. The decrease in the typical residential bill is due to the decrease of the Energy Cost Recovery Factor (-\$1.12), partially offset by the increase in the Purchase Power Adjustment (+\$0.14).

The Honorable Chair and Members  
of the Hawai'i Public Utilities Commission  
September 26, 2019  
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The Company's Moloka'i Division fuel composite cost of generation, central station and other decreased 24.19 cents per million BTU to 1,611.55 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 October 1, 2019.

Sincerely,

  
Sharon M. Suzuki  
President

Attachments

cc: Division of Consumer Advocacy

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

**ENERGY COST RECOVERY FACTOR**

	EFFECTIVE DATES		<u>Change</u>
	<u>09-01-19</u>	<u>10-01-19</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	1,945.33	2,008.94	63.61
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 Recovery, ¢/kWh	24.278	24.957	0.679
<u>Others - "G,P,F"</u>			
Energy Cost Recovery, ¢/kWh	24.278	24.957	0.679
<u>Residential Customer with</u>			
400 KWH Consumption, \$/Bill	168.18	170.90	2.72
500 KWH Consumption, \$/Bill	208.62	212.02	3.40

Supersedes Sheet Effective:

September 1, 2019

MAUI ELECTRIC COMPANY, LTD.  
LANAI DIVISION

ENERGY COST RECOVERY (ECR) FILING

ENERGY COST RECOVERY (ECR) FILING - October 1, 2019 (page 1 of 2)

Line

- 1 Effective Date October 1, 2019
- 2 Supercedes Factors of September 1, 2019

**GENERATION COMPONENT**

<b>CENTRAL STATION</b>						<b>DG ENERGY COMPONENT</b>	
FUEL PRICES, ¢/mmbtu							
3	Industrial		0.00				
4	Diesel - Miki Basin		1,999.30				
5	Diesel - Manele Bay		2,134.28				
6	Other		0.00				
BTU MIX, %							
7	Industrial		0.00%	25	COMPOSITE COST OF DG ENERGY, ¢/kWh		0.000
8	Diesel - Miki Basin		92.86%				
9	Diesel - Manele Bay		7.14%	26	% Input to System kWh Mix		0.00%
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))		2,008.94	27	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 25 x 26)		0.00000
12	% Input to System kWh Mix		94.89%	28	BASE DG ENERGY COMP COST		0.000
	EFFICIENCY FACTOR, mmbtu/kWh			29	Base % Input to System kWh Mix		0.00%
	(A)	(B)	(C)	(D)	30	WEIGHTED BASE DG ENERGY COST, ¢/kWh (Line 28 x 29)	0.00000
		Eff Factor	Percent of Centrl Stn + Other	Weighted Eff Factor	31	Cost Less Base (Line 27 - 30)	0.00000
13	Industrial	0.000000	0.00	0.000000	32	Loss Factor	1.0500
14	Diesel	0.011017	100.00	0.011017	33	Revenue Tax Req Multiplier	1.0975
15	Other	0.011017	0.00	0.000000	34	DG FACTOR, ¢/kWh (Line 31 x 32 x 33)	0.00000
	(Lines 13, 14, 15): Col(B) x Col(C) = Col(D)						
16	Weighted Efficiency Factor, mmbtu/kWh [lines 13(D) + 14(D) + 15(D)]		0.011017				
17	WEIGHTED COMPOSITE CENTRAL STATION + OTHER GEN COST, ¢/kWh (lines (11 x 12 x 16))		21.00152				
18	BASE CENTRAL STATION + OTHER GENERATION COST, ¢/mmbtu		-				
19	Base % Input to Sys kWh Mix		0.00%				
20	Efficiency Factor, mmbtu/kwh		0.011017				
21	WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST ¢/kWh (lines (18 x 19 x 20))		-				
22	COST LESS BASE (line(17 - 21))		21.00152				
23	Revenue Tax Req Multiplier		1.0975				
24	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (22 x 23))		23.04917				
					SUMMARY OF		
					TOTAL GENERATION FACTOR, ¢/kWh		
				35	CNTRL STN + OTHER (line 24)		23.04917
				36	DG (line 34)		-
				37	TOTAL GENERATION FACTOR, ¢/kWh (lines 35 + 36)		23.04917

MAUI ELECTRIC COMPANY, LTD.  
LANAI DIVISION

ENERGY COST RECOVERY (ECR) FILING

ENERGY COST RECOVERY (ECR) FILING - October 1, 2019 (page 2 of 2)

Line

- 1 Effective Date October 1, 2019
- 2 Supercedes Factors of September 1, 2019

Line	<b>PURCHASED ENERGY COMPONENT</b>	
	PURCHASED ENERGY PRICE, ¢/kWh - FOSSIL	
	PURCHASED ENERGY PRICE, ¢/kWh - RENEWABLE	
38	LANAI SOLAR RESEARCH POn Peak	30.000
39	- Off Peak	30.000
40	Sch Q	0.000
	PURCHASED ENERGY KWH MIX, %, FOSSIL	
	PURCHASED ENERGY KWH MIX, %, RENEWABLE	
41	LANAI SOLAR RESEARCH POn Peak	100.00%
42	- Off Peak	0.00%
43	Sch Q	0.00%
43A	Total Fossil %	0.00%
43B	Total Renewable %	100.00%
43C	Comp. cost of purch. energy, fossil ¢/kWh	N/A
43D	Comp. cost of purch. energy, renewable ¢/kWh	30.00
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	5.11%
46	WEIGHTED COMP. PURCH. ENERGY COST, ¢/kWh (lines (44 x 45))	1.53300
47	BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh	0.000
48	Base % Input to Sys kWh Mix	0.00
49	WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (lines (47 x 48))	0.00000
50	COST LESS BASE (lines (46 - 49))	1.53300
51	Loss Factor	1.050
52	Revenue Tax Req Multiplier	1.0975
53	PURCHASED ENERGY FACTOR, ¢/kWh (lines (50 x 51 x 52))	1.76659

<b>Calculation of Monthly Fossil Fuel Cost Risk Sharing Component</b>		
<b>Baseline Diesel (Actual)</b>		
54	Diesel \$, baseline month	\$585,119
55	Diesel mmbtu, baseline	30,078
56	Baseline Diesel, ¢/mmbtu	1,945.33
<b>Month Diesel</b>		
57	Diesel mmbtu, budget	31,594
58	Diesel Cost, ¢/mmbtu	2,008.93
59	Diesel ECRC Fossil Cost	\$634,699
60	Diesel Base ECRC Recovery Target	\$614,604
61	Diesel differential	\$20,095
62	Total Fossil	\$20,095
63	2% of above	\$402
64	Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year	\$0
65	Maximum Annual Cap (bi-directional)	\$31,500
66	Number of Days in year from implementation	122
67	Fossil Risk % Proration (based on 365 day year)	33.42%
68	Maximum Annual Cap (bi-directional) prorated	\$10,529
69	Applicable Monthly Fossil Fuel Cost Risk Sharing	\$402
70	Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month	\$402
71	Fossil Cost Risk Sharing before taxes	\$402
72	Revenue Tax Adjustment	1.097514
73	Fossil Cost Risk Sharing w/revenue tax	\$441
74	Forecasted Month MWh Sales	3,049
75	Fossil Fuel Cost Risk Sharing Component, ¢/kWh	-0.0145

Line **SYSTEM COMPOSITE CALCULATIONS**

76	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (lines (37 + 53))	24.81576
77	Adjustment, ¢/kWh	0.000
78	Fossil Fuel Cost Risk Sharing Component	(0.015)
79	ECR Reconciliation Adjustment	0.156
80	ECR FACTOR, ¢/kWh (lines (76 + 77 + 78 + 79))	24.957

**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>
9/19/2019	2,512.98	14,399.32	293,498.10
Estimated Use	1,892.57	10,844.43	209,902.54
Estimated Received	1,571.43	9,004.29	167,043.48
Estimated Additional	<u>2,928.42</u>	<u>16,779.82</u>	<u>335,938.71</u>
Estimated End	5,120.26	29,339.00	586,577.75

Next Month's Combined Miki Expense (\$/bbl) = \$ 114.5601 /bbl

<b><u>Manele CHP</u></b>	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
9/19/2019	160.67	920.64	19,525.69
Estimated Use	(0.02)	(0.11)	(2.37)
Estimated Received	-	-	-
Estimated Additional	<u>232.85</u>	<u>1,334.25</u>	<u>28,599.92</u>
Estimated End	393.54	2,255.00	48,127.98

Next Month's Manele Expense (\$/bbl) = \$ 122.2940 /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	\$ 114.5601	5.73 BTU/BBL	1,999.30
Diesel - Manele Bay	\$ 122.2940	5.73 BTU/BBL	2,134.28

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

**Contract Prices effective September 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 *	16.2191	283.06
Ocean Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.0000	0.00

**MANELE BAY - ULTRA LOW SULFUR DIESEL**

Tax *	16.2191	283.06
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**  
**ECR Reconciliation Adjustment**

**October 2019**

1. Amount to be Collected	\$13,000
2. Monthly amount (1 / 3 X Line 1)	\$4,333
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	\$4,756
5. Estimated Sales (October 2019)	3,049 mwh
6. Adjustment (Line 4 ÷ Line 5)	0.156 ¢/kwh



**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)	(2,721)	6,590
March					(2,867)	(2,728)	3,862
April					(2,867)	(2,599)	1,263
May	91,900	(1)	1,002	90,898	(30,633)	(28,551)	63,610
June					(30,633)	(30,812)	32,798
July					(30,633)	(30,931)	1,867
August	(13,000)	(2)	2,171	(15,171)	4,333	4,372	(8,932)
September					4,333		
October					4,333		

## 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		
	09-01-19	10-01-19	09-01-19	10-01-19	Difference
<b>Base Rates</b>	effective date:	09/01/19	09/01/19		
Base Fuel/Energy Charge	¢/kWh	0.0000	0.0000	0.00	0.00
Non-fuel Energy Charge					
First 250 kWhr per month	¢/kWh	12.3123	12.3123	30.78	30.78
Next 500 kWhr per month	¢/kWh	14.8123	14.8123	22.22	22.22
Customer Charge	\$	11.50	11.50	11.50	11.50
<b>Total Base Charges</b>			<b>64.50</b>	<b>64.50</b>	<b>0.00</b>
<b>IRP Refund</b>	% on base	0.0000	0.0000	0.00	0.00
<b>Revenue Balancing Rate Adjustment</b>	¢/kWh	0.8716	0.8716	3.49	3.49
<b>PBF Surcharge</b>	¢/kWh	0.4775	0.4775	1.91	1.91
<b>Renewable Energy Infrastructure Cost Recovery Provision</b>	¢/kWh	0.0000	0.0000	0.00	0.00
<b>SolarSaver Adjustment</b>	¢/kWh	0.0000	0.0000	0.00	0.00
<b>Refund of 2018 Interim</b>	% on Base	0.00	0.00	0.00	0.00
<b>Energy Cost Adjustment/Recovery</b>	¢/kWh	24.278	24.957	97.11	99.83
<b>Green Infrastructure Fee</b>	\$	1.17	1.17	1.17	1.17
<b>Avg Residential Bill at 400 kwh</b>			<b>168.18</b>	<b>170.90</b>	

Increase (Decrease -)	2.72
% Change	1.62%

	Rate		Charge (\$) at 500 Kwh		
	09-01-19	10-01-19	09-01-19	10-01-19	Difference
<b>Base Rates</b>	effective date:	09/01/19	09/01/19		
Base Fuel/Energy Charge	¢/kWh	0.0000	0.0000	0.00	0.00
Non-fuel Energy Charge					
First 250 kWhr per month	¢/kWh	12.3123	12.3123	30.78	30.78
Next 500 kWhr per month	¢/kWh	14.8123	14.8123	37.03	37.03
Customer Charge	\$	11.50	11.50	11.50	11.50
<b>Total Base Charges</b>			<b>79.31</b>	<b>79.31</b>	<b>0.00</b>
<b>IRP Refund</b>	% on base	0.0000	0.0000	0.00	0.00
<b>Revenue Balancing Rate Adjustment</b>	¢/kWh	0.8716	0.8716	4.36	4.36
<b>PBF Surcharge</b>	¢/kWh	0.4775	0.4775	2.39	2.39
<b>Renewable Energy Infrastructure Cost Recovery Provision</b>	¢/kWh	0.0000	0.0000	0.00	0.00
<b>SolarSaver Adjustment</b>	¢/kWh	0.0000	0.0000	0.00	0.00
<b>Refund of 2018 Interim</b>	% on Base	0.00	0.00	0.00	0.00
<b>Energy Cost Adjustment/Recovery</b>	¢/kWh	24.278	24.957	121.39	124.79
<b>Green Infrastructure Fee</b>	\$	1.17	1.17	1.17	1.17
<b>Avg Residential Bill at 500 kwh</b>			<b>208.62</b>	<b>212.02</b>	

Increase (Decrease -)	3.40
% Change	1.63%

**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	168.18	208.62
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
June 1, 2019	4.196	172.73	214.30
July 1, 2019	3.088	171.26	212.48
August 1, 2019	3.232	171.84	213.20
September 1, 2019	24.278	168.18	208.62
October 1, 2019	24.957	170.90	212.02

**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>
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	1.3000 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
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	6.36 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	-2.03 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>

~ Surcharges currently in effect are in bold.

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