



August 28, 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 Recovery Factor for September 2019

Maui Electric Company, Limited's ("Maui Electric" or "Company") September 2019 Energy Cost Recovery factor for our Maui Division is 18.068 cents per kilowatt-hour ("kWh"), an increase of 15.130 cents per kWh from last month. The Energy Cost Recovery Factor includes recovery of base fuel beginning September 1, 2019. A residential customer consuming 500 kWh of electricity will be paying \$173.77, a decrease of \$4.25 compared to rates effective August 1, 2019. The decrease in the typical residential bill is due to the termination of the base fuel energy charge (-\$79.89) from the implementation of the Energy Cost Recovery Factor, decrease in the Purchase Power Adjustment (-\$0.01), partially offset by the implementation of the Energy Cost Recovery Factor (+\$75.65).

The Company's Maui Division fuel composite cost of generation, central station and other decreased 8.06 cents per million BTU to 1,420.47 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy decreased 0.188 cents per kWh to 19.514 cents per kWh.

The Energy Cost Recovery factor for our Lāna'i Division for September 2019 is 24.278 cents per kWh, an increase of 21.046 cents per kWh from last month. The Energy Cost Recovery Factor includes recovery of base fuel beginning September 1, 2019. A residential customer consuming 400 kWh of electricity will be paying \$168.18, a decrease of \$3.66 compared to rates effective August 1, 2019. The decrease in the typical residential bill is due to the termination of the base fuel energy charge (-\$87.84) from the implementation of the Energy Cost Recovery Factor, partially offset by the implementation of the Energy Cost Recovery factor (+\$84.18).

The Company's Lāna'i Division fuel composite cost of generation, central station and other decreased 76.72 cents per million BTU to 1,945.33 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 Honorable Chair and Members
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The Energy Cost Recovery factor for our Moloka'i Division for September 2019 is 19.349 cents per kWh, an increase of 17.090 cents per kWh from last month. The Energy Cost Recovery Factor includes recovery of base fuel beginning September 1, 2019. A residential customer consuming 400 kWh of electricity will be paying \$152.49, a decrease of \$2.51 compared to rates effective August 1, 2019. The decrease in the typical residential bill is due to the termination of the base fuel energy charge (-\$70.75) from the implementation of the Energy Cost Recovery Factor, decrease in the Purchase Power Adjustment (-\$0.12), partially offset by the implementation of the Energy Cost Recovery Factor (+\$68.36).

The Company's Moloka'i Division fuel composite cost of generation, central station and other decreased 47.46 cents per million BTU to 1,635.74 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, 2019.

Sincerely,



Sharon M. Suzuki
President

Attachments

cc: Division of Consumer Advocacy

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

ENERGY COST RECOVERY FACTOR

	EFFECTIVE DATES		<u>Change</u>
	<u>08-01-19</u>	<u>09-01-19</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	1,683.20	1,635.74	(47.46)
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 Recovery, ¢/kWh	2.259	19.349	17.090
<u>Others - "G,P,F"</u>			
Energy Cost Recovery, ¢/kWh	2.259	19.349	17.090
<u>Residential Customer with</u>			
400 KWH Consumption, \$/Bill	155.00	152.49	(2.51)
500 KWH Consumption, \$/Bill	192.25	189.11	(3.14)

Supersedes Sheet Effective:

August 1, 2019

**MAUI ELECTRIC COMPANY, LTD.
MOLOKAI DIVISION
ENERGY COST RECOVERY (ECR) FILING**

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

Line

- 1 Effective Date September 1, 2019
- 2 Supercedes Factors August 1, 2019

GENERATION COMPONENT

CENTRAL STATION						DG ENERGY COMPONENT	
FUEL PRICES, ¢/mmbtu							
3	Industrial		0.00				
4	Diesel		1,635.74				
5	Other		0.00				
BTU MIX, %							
6	Industrial		0.00	23	COMPOSITE COST OF DG		
7	Diesel		100.00		ENERGY, ¢/kWh	0.000	
8	Other		0.00	24	% Input to System kWh Mix	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))		1,635.74	25	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 23 x 24)	0.00000	
10	% Input to System kWh Mix		99.98	26	BASE DG ENERGY COMP COST	0.000	
EFFICIENCY FACTOR, mmbtu/kWh				27	Base % Input to System kWh Mix	0.00	
	(A)	(B)	(C)	(D)	28	WEIGHTED BASE DG ENERGY COST, ¢/kWh (Line 26 x 27)	0.00000
		Eff Factor	Percent of	Weighted	29	Cost Less Base (Line 25 - 28)	0.00000
	Fuel Type	mmbtu/kwh	Centrl Stn +	Eff Factor	30	Loss Factor	1.098
			Other		31	Revenue Tax Req Multiplier	1.0975
11	Industrial	0.000000	0.00	0.000000	32	DG FACTOR, ¢/kWh (Line 29 x 30 x 31)	0.00000
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))		18.19792				
16	BASE CENTRAL STATION + OTHER GENERATION COST, ¢/mmbtu		0.00				
17	Base % Input to Sys kWh Mix		0.00				
18	Efficiency Factor, mmbtu/kwh		0.011127				
19	WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST ¢/kWh (lines (16 x 17 x 18))		0.00000				
20	COST LESS BASE (line(15 - 19))		18.19792				
21	Revenue Tax Req Multiplier		1.0975				
22	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (20 x 21))		19.97222				
					SUMMARY OF		
					TOTAL GENERATION FACTOR, ¢/kWh		
				33	CNTRL STN + OTHER (line 22)	19.97222	
				34	DG (line 32)	0.00000	
				35	TOTAL GENERATION FACTOR, ¢/kWh (lines 33 + 34)	19.97222	

**MAUI ELECTRIC COMPANY, LTD.
MOLOKAI DIVISION
ENERGY COST RECOVERY (ECR) FILING**

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

Line

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

Line	PURCHASED ENERGY COMPONENT	
	PURCHASED ENERGY PRICE, ¢/kWh - Fossil	
	PURCHASED ENERGY PRICE, ¢/kWh - Renewable	
36	FIT	21.800
37		0.000
38	Sch Q	0.000
	PURCHASED ENERGY KWH MIX, % - Fossil	
	PURCHASED ENERGY KWH MIX, % - Renewable	
39	FIT	100.00
40		0.00
41	Sch Q	0.000
41A	Fossil Purch. Energy %	0.000
41B	Renewable Purch. Energy %	100.000
41C	Comp. Cost, Fossil Purch. Energy, ¢/kWh	N/A
41D	Comp. Cost, Renewable Purch. Energy, ¢/kWh	21.800
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))	0.00354
45	BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh	0.000
46	Base % Input to Sys kWh Mix	0.00
47	WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (lines (45 x 46))	0.00000
48	COST LESS BASE (lines (44 - 47))	0.00354
49	Loss Factor	1.098
50	Revenue Tax Req Multiplier	1.0975
51	PURCHASED ENERGY FACTOR, ¢/kWh (lines (48 x 49 x 50))	0.00427

Line	Calculation of Monthly Fossil Fuel Cost Risk Sharing Component	
	Baseline Diesel (Actual)	
52	Diesel \$, baseline month	\$453,198
53	Diesel mmbtu, baseline	27,706
54	Baseline Diesel, ¢/mmbtu	1,635.74
	Month Diesel	
55	Diesel mmbtu, budget	27,706
56	Diesel Cost, ¢/mmbtu	1,635.74
57	Diesel ECRC Fossil Cost	\$453,198
58	Diesel Base ECRC Recovery Target	\$453,198
59	Diesel differential	\$0
60	Total Fossil	\$0
61	2% of above	\$0
62	Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year	\$0
63	Maximum Annual Cap (bi-directional)	\$31,500
64	Number of Days in year from implementation	122
65	Fossil Risk % Proration (based on 365 day year)	33.42%
66	Maximum Annual Cap (bi-directional) prorated	\$10,529
67	Applicable Monthly Fossil Fuel Cost Risk Sharing	\$0
68	Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month	\$0
69	Fossil Cost Risk Sharing before taxes	\$0
70	Revenue Tax Adjustment	1.097514
71	Fossil Cost Risk Sharing w/revenue tax	\$0
72	Forecasted Month MWh Sales	2,490
73	Fossil Fuel Cost Risk Sharing Component, ¢/kWh	0.00

Line **SYSTEM COMPOSITE CALCULATIONS**

74	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (lines (35 + 51))	19.97649
75	Adjustment, ¢/kWh	0.000
76	Fossil Fuel Cost Risk Sharing Component	0.00
77	ECR Reconciliation Adjustment	(0.627)
78	ECR FACTOR, ¢/kWh (lines (74 + 75 + 76 + 77))	19.349

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

MONTH END FUEL OIL ESTIMATE

	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
8/20/2019	3,540.83	20,288.98	352,798.56
Estimated Use	1,912.12	10,956.44	184,419.10
Estimated Received	5,742.00	32,901.66	522,461.48
Estimated Additional	-	-	-
Estimated End	<u>7,370.71</u>	<u>42,234.20</u>	<u>690,840.94</u>

Next Months Expense = \$ 93.7279 /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	\$ 93.7279	5.73 BTU/BBL	1635.74

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

Contract Prices effective August 1, 2019

<u>TYPE OF OIL BURNED</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>
ULTRA LOW SULFUR DIESEL		
Tax *	4.9916	87.11
Ocean Transportation	1.7997	31.41
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
ECR Reconciliation Adjustment

September 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 (September 2019)	2,490 mwh
6. Adjustment (Line 4 ÷ Line 5)	-0.627 ¢/kwh

**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	1,381	210
August	42,700	(2)	167	42,533	(14,233)		
September					(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			
	08-01-19	09-01-19	08-01-19	09-01-19	Difference	
Base Rates	effective date:	06/01/19	09/01/19			
Base Fuel/Energy Charge	¢/kWh	17.6887	0.0000	70.75	0.00	-70.75
Non-fuel Energy Charge						
First 250 kWhr per month	¢/kWh	14.0459	14.0459	35.11	35.11	0.00
Next 500 kWhr 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
Total Base Charges				142.40	71.65	-70.75
IRP Refund	% on base	0.000	0.000	0.00	0.00	0.00
Revenue Balancing Rate Adjustment	¢/kWh	0.8716	0.8716	3.49	3.49	0.00
PBF Surcharge	¢/kWh	0.4775	0.4775	1.91	1.91	0.00
Renewable Energy Infrastructure Cost Recovery Provision	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
SolarSaver Adjustment	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
Refund of 2018 Interim	% on base	0.00	0.00	0.00	0.00	0.00
Purchased Power Adjustment	¢/kWh	-0.7518	-0.7820	-3.01	-3.13	-0.12
Energy Cost Adjustment/Recovery	¢/kWh	2.259	19.349	9.04	77.40	68.36
Green Infrastructure Fee	\$	1.17	1.17	1.17	1.17	0.00
Avg Residential Bill at 400 kwh				155.00	152.49	

Increase (Decrease -)	-2.51
% Change	-1.62%

	Rate		Charge (\$) at 500 Kwh			
	08-01-19	09-01-19	08-01-19	09-01-19	Difference	
Base Rates	effective date:	06/01/19	09/01/19			
Base Fuel/Energy Charge	¢/kWh	17.6887	0.0000	88.44	0.00	-88.44
Non-fuel Energy Charge						
First 250 kWhr per month	¢/kWh	14.0459	14.0459	35.11	35.11	0.00
Next 500 kWhr 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
Total Base Charges				176.79	88.35	-88.44
IRP Refund	% on base	0.000	0.000	0.00	0.00	0.00
Revenue Balancing Rate Adjustment	¢/kWh	0.8716	0.8716	4.36	4.36	0.00
PBF Surcharge	¢/kWh	0.4775	0.4775	2.39	2.39	0.00
Renewable Energy Infrastructure Cost Recovery Provision	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
SolarSaver Adjustment	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
Refund of 2018 Interim	% on base	0.00	0.00	0.00	0.00	0.00
Purchased Power Adjustment	¢/kWh	-0.7518	-0.7820	-3.76	-3.91	-0.15
Energy Cost Adjustment/Recovery	¢/kWh	2.259	19.349	11.30	96.75	85.45
Green Infrastructure Fee	\$	1.17	1.17	1.17	1.17	0.00
Avg Residential Bill at 500 kwh				192.25	189.11	

Increase (Decrease -)	-3.14
% Change	-1.63%

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

<u>EFFECTIVE DATE</u>	<u>FUEL FACTOR CENTS / KWH</u>		<u>RESIDENTIAL BILL (\$)</u>	
	<u>RESIDENTIAL & COMMERCIAL</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
September 1, 2019	19.349		152.49	189.11

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

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
06/01/11	IRP RECOVERY REFUND	0.000 PERCENT ON BASE
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
08/17/17	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0000 CENTS/KWH
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
05/01/19	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/19	FINAL RATE INCREASE (3.74%), DOCKET NO. 2017-0150 (2018 TEST YEAR)	
06/01/19 - 06/30/19	REFUND OF INTERIM RATE INCREASE 2018 TEST YEAR	-2.00 PERCENT ON BASE
06/01/19	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.8716 CENTS/KWH
07/01/19	RESID. PBF SURCHARGE ADJUSTMENT	0.4775 CENTS/KWH
07/01/19	GREEN INFRASTRUCTURE FEE	1.17 DOLLARS/MONTH
08/01/19 - 08/31/19	PURCHASED POWER ADJUSTMENT	-0.7518 CENTS/KWH
09/01/19	PURCHASED POWER ADJUSTMENT	-0.7820 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.