

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 of the Hawai'i Public Utilities Commission July 29, 2019 Page 2

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

ENERGY COST ADJUSTMENT FACTOR

	EFFECTIVE DATES		
	<u>07-01-19</u>	<u>08-01-19</u>	<u>Change</u>
COMPOSITE COSTS Generation, Central Station & Other, ¢/mbtu DG Energy, ¢/kWh Purchased Energy, ¢/kWh	2,124.33 0.00 30.00	2,022.05 0.00 30.00	(102.28) 0.00 0.00
Residential Schedule "R"			
Energy Cost Adjustment, ¢/kWh	3.088	3.232	0.144
Others - "G,P,F"			
Energy Cost Adjustment, ¢/kWh	3.088	3.232	0.144
Residential Customer with			
400 KWH Consumption, \$/Bill	171.26	171.84	0.58
500 KWH Consumption, \$/Bill	212.48	213.20	0.72

Supersedes Sheet Effective: July 1, 2019

ENERGY COST ADJUSTMENT (ECA) FILING

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

Line

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

GENERATION COMPONENT

		CENTRAL	STATION			
	FUEL PRICES	S, ¢/mmbtu				
3	Industrial			0.00		
4	Diesel - Miki B	Basin		2,025.87		
5	Diesel - Mane	le Bay		1,924.57		
6	Other			0.00		
	BTU MIX, %				DG ENERGY COMPONENT	
7	Industrial			0.00%	25 COMPOSITE COST OF DG	
8	Diesel - Miki B			96.23%	ENERGY, ¢/kWh	0.000
9	Diesel - Mane	le Bay		3.77%		
10	Other		-	0.00%	26 % Input to System kWh Mix	0.00%
				100.00%		
					27 WEIGHTED COMPOSITE DG ENERGY	
11	COMPOSITE		•		COST, ¢/kWh (Lines 25 x 26)	0.00000
			HER ¢/mmbtu	2,022.05		
			$x 9) + (6 \times 10)$	-		
12	% Input to Sys	stem kWh Mix		94.21%		0.000
					29 Base % Input to System kWh Mix	0.00%
	EFFICIENCY				30 WEIGHTED BASE DG ENERGY COST,	
	(A)	(B)	(C)	(D)	¢/kWh (Line 28 x 29)	0.00000
			Percent of			
		Eff Factor	Centrl Stn +	Weighted	,	0.00000
	Fuel Type	mmbtu/kwh	<u>Other</u>	Eff Factor	32 Loss Factor	1.0500
13	Industrial	0.000000	0.00	0.000000	33 Revenue Tax Req Multiplier	1.0975
14	Diesel	0.011017	100.00	0.011017	34 DG FACTOR,	
15	Other	0.011017	0.00	0.000000	¢/kWh (Line 31 x 32 x 33)	0.00000
4.0	· ·		$x \operatorname{Col}(C) = \operatorname{Col}(C)$	(D)		
16	Weighted Effic	•		0.04404=		
	[lines 13(D) +	+ 14(D) + 15(D))]	0.011017		
17	WEIGHTED C		ENTDAL CTA	TION .		
''		N COST, ¢/kW		IION +		
	(lines (11 x 1		11	20.98709		
	(IIIIes (TTX T	2 X 10))		20.30703		
18	BASE CENTR	AL STATION	+ OTHER GEN	NERATION		
'0	COST, ¢/mn		1 OTTIER OLI	1,740.36		
10	Base % Input		iv	93.21%		
	Efficiency Fac	•		0.011017		
	WEIGHTED B	•		0.011017		
-		NERATION CO				
	(lines (18 x		οι φπιτι	17.87166		
	(1170)	10 X 20))		17.07.100	SUMMARY OF	
22	COST LESS E	BASE (line(17	- 21))	3.11543	TOTAL GENERATION FACTOR, ¢/kWh	
	Revenue Tax	, ,	//	1.0975	•	3.41918
	CENTRAL ST		ER GENERAT		36 DG (line 34)	-
] <u> </u>		kWh (line (22		3.41918	37 TOTAL GENERATION FACTOR,	
	2 : 2, p r.	\z \	- //		·	3.41918
					, , , , , , , , , , , , , , , , , , , ,	- · -

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 of July 1, 2019

Line	PURCHASED ENERGY COMPON	<u>NENT</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		100.00%
42	- Off Peak	0.00%
13	Sch Q	0.00%
43	our Q	0.0076
44	COMPOSITE COST OF PURCHASED	
	ENERGY, ¢/kWh	30.000
	(Lines (38 x 41) + (39 x 42) + (40 x 43))	
45	% Input to System kWh Mix	5.79%
46	WEIGHTED COMP. PURCH. ENERGY	
	COST, ¢/kWh (lines (44 x 45))	1.73700
4-		
47	BASE PURCHASED ENERGY	00.000
40	COMPOSITE COST, ¢/kWh	30.000
	Base % Input to Sys kWh Mix	6.79
49	WEIGHTED BASE PURCHASED ENERGY	0.00700
	COST, ¢/kWh (lines (47 x 48))	2.03700
50	COST LESS BASE(lines (46 - 49))	(0.30000)
	Loss Factor	1.050
52	Revenue Tax Req Multiplier	1.0975
53	PURCHASED ENERGY FACTOR,	(0.34571)
	¢/kWh (lines (50 x 51 x 52))	,

Line SYSTEM COMPOSITE CALCULATIONS

54 GENERATION AND PURCHASED ENERGY FACTOR, ϕ /kWh 3.07347 (lines (37 + 53))
55 Adjustment, ϕ /kWh 0.000
56 ECA Reconciliation Adjustment 0.159
57 ECA FACTOR, ϕ /kWh 3.232 (lines (54 + 55 + 56))

Maui Electric Company, Ltd. Lanai Division

MONTH END FUEL OIL ESTIMATE

<u> Miki Basin - ULSD</u>	Barrels	MBTU	\$
7/18/2019	2,297.62	13,165.30	321,120.94
Estimated Use	2,025.14	11,604.05	245,931.64
Estimated Received	1,714.29	9,822.88	181,003.48
Estimated Additional	3,178.51	18,212.87	343,405.49
Estimated End	5,165.28	29,597.00	599,598.27

Next Month's Combined Miki Expense (\$/bbl) = \$ 116.0824 /bbl

Manele CHP	Barrels	MBTU	\$
7/18/2019	160.67	920.64	19,525.83
Estimated Use	185.50	1,062.92	23,534.64
Estimated Received	-	-	-
Estimated Additional	227.27	1,302.28	26,333.92
Estimated End	202.44	1,160.00	22,325.12

Next Month's Manele Expense (\$/bbl) = \$ 110.2780 /bbl

FUEL OIL INVENTORY PRICE USED FOR FILING

Type of Oil Burned	<u>Price</u>	Conversion Factor	Prices ¢/MBTU
Diesel - Miki Basin	\$ 116.0824	5.73 BTU/BBL	2,025.87
Diesel - Manele Bay	\$ 110.2780	5.73 BTU/BBL	1,924.57

Contract Prices effective July 1, 2019

TYPE OF OIL BURNED	\$/BBL	¢/MBTU
MIKI BASIN - ULTRA LOW	SULFUR DIESE	L (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 DIESE	L
Tax *	16.1893	282.54
Ocean Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.0000	0.00
MANELE BAY - ULTRA LO	OW SULFUR DIE	
Tax *	16.1893	282.54
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

August 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 (August 2019)	2,988	mwh
6.	Adjustment (Line 4 ÷ Line 5)	0.159	¢/kwh

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

	(Inousand \$)						
Line		Without Deadband 2nd Quarter <u>YTD Total</u>	collection by company*	Basis for Recon With Deadband 2nd Quarter YTD Total	collection by company*		
	ACTUAL COSTS:						
1	Generation	\$3,130.9		\$3,130.9			
2	Distributed Generation	\$0.0		\$0.0			
3	Purch Power	\$236.6		\$236.6			
4	TOTAL	\$3,367.5		\$3,367.5			
	FUEL FILING COST						
5	Generation	\$3,215.5		\$3,200.9			
6	Distributed Generation	\$0.0		\$0.0			
7	Purch Power	\$236.6		\$236.6			
8	TOTAL	\$3,452.0		\$3,437.4			
	BASE FUEL COST						
9	Generation	\$3,936.9		\$3,936.9			
10	Distributed Generation	\$0.0		\$0.0			
11	Purch Power	\$215.6		\$215.6			
12	TOTAL	\$4,152.5		\$4,152.5			
13	FUEL-BASE COST (Line 8-12)	-\$700.4		-\$715.0			
14	ACTUAL FOA LESS TAX	-\$717.9		-\$717.9			
15	FOA reconciliation adj for prior year	-\$20.6		-\$20.6			
16	ADJUSTED FOA LESS TAX	-\$697.3		-\$697.3			
17	FOA-(FUEL-BASE) (Line 16-13)	\$3.1	Over	\$17.7	Over		
	ADJUSTMENTS						
18	Current year FOA accrual reversal	\$61.2		\$61.2			
19	Other prior year FOA	\$0.0		\$0.0			
20	Other	\$0.0		\$0.0			
21	2nd QUARTER FOA RECONCILIATION (Lines 17+18+19+20)	\$64.3	Over	\$78.9	Over		
22	1st QUARTERLY FOA Reconciliation Recognized in FOA Rates			\$91.9	Over		
23	FOA Reconciliation to be Collected August 2019 to October 201	9 (Line 22- 21)		\$13.0	To Be Collected		

^{*} 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 June 30, 2019

	Notes \(\)	<u>/TD</u>
<u>Diesel</u>		
Diesel Efficiency Factor (TY2018), BTU/kWh	f	11,017
Diesel Deadband Definition, +/- BTU/kWh	d	50
Diesel Portion of Recorded Sales, MWh	а	14,313
Diesel Consumption (Recorded), MMBTU	b	153,335
Diesel Efficiency Factor (Recorded), BTU/kWh	c = (b/a)*1000	10,713
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	10,967

GENERATION FUEL FILING COST AND GENERATION BASE FUEL COST, WITHOUT and WITH DEADBAND 2019

	Without	With
	Deadband	Deadband
		AS FILED
	<u>Jan 1 - Jun 30</u>	<u>Jan 1 - Jun 30</u>
Diesel Portion of Recorded Sales, MWH	14,313	14,313
Diesel Sales Efficiency Factor (mmbtu/kwh)	0.011017	0.010967
Mmbtu adjusted for Sales Efficiency Factor	157,690	156,974
\$/mmbtu	\$20.3910	<u>\$20.3910</u>
TOTAL DIESEL \$000s TO BE RECOVERED	\$3,215.5	\$3,200.9
TOTAL GENERATION FUEL FILING COST, \$000s	\$3,215.5	\$3,200.9
TOTAL GENERATION BASE FUEL COST , \$000s	\$3,936.9	\$3,936.9
TOTAL GENERATION FUEL FILING COST, \$000s YTD	\$3,215.5	\$3,200.9
TOTAL GENERATION BASE FUEL COST, \$000s YTD	\$3,936.9	\$3,936.9

2019 Cumulative Reconciliation Balance

	(1)	(2)	(3)	(4)	(5)	(6)
		FOA Rec	FOA Rec			Month-end
	YTD FOA	Adjust	Less	Try to	Actual	Cumulative
<u>Month</u>	Reconciliation Q	tr <u>Variance</u>	<u>Variance</u>	<u>Collect</u>	<u>Collect</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)		
August	(13,000) (2) 2,171	(15,171)	4,333		
NOTES:						
Col(1):	Quarterly FOA re		•		•	
•	A positive numb			-		
Col(2):	FOA reconciliation	•			•	
	starting with the	•				
	sales used to de (Col(5) - Col(4))	nve me ø/kw	n aujustinent a	ind the actual	recorded Said	3 5.
Col(3):	FOA reconciliation	n generated	in the current	quarter. The	YTD FOA red	conciliation
	difference minus			. , , , , ,		
Col(4):	Amount that the		•		•	` ' '
Col(5):	Actual collected	amount. (rec	orded sales * \$	ß/kwh adjustm	ent/1.09751)	

Cumulative balance of the FOA reconciliation (Previous balance + Col(3) + Col(5))

Col(6):

Maui Electric Company, Ltd. Lanai Division Calculations of the Average Residential Customer Bill

Base Rates
Base Fuel/Energy Charge
Non-fuel Fuel Energy Charge
First 250 kWhr per month
Next 500 kWhr per month
Customer Charge
Total Base Charges
IRP Refund
Revenue Balancing Rate Adjustment
PBF Surcharge
Renewable Energy Infrastructure Cost
•
Renewable Energy Infrastructure Cost
Renewable Energy Infrastructure Cost Recovery Provision
Renewable Energy Infrastructure Cost Recovery Provision SolarSaver Adjustment
Renewable Energy Infrastructure Cost Recovery Provision SolarSaver Adjustment Refund of 2018 Interim

	Rate	
	07-01-19	08-01-19
effective date:	06/01/19	06/01/19
¢/kWh	21.9611	21.9611
¢/kWh	12.3123	12.3123
¢/kWh	14.8123	14.8123
\$	11.50	11.50
% on base	0.0000	0.0000
¢/kWh	0.8716	0.8716
¢/kWh	0.4775	0.4775
	0.000	0.0000
¢/kWh	0.0000	0.0000
¢/kWh	0.0000	0.0000
% on Base	0.00	0.00
¢/kWh	3.088	3.232
\$	1.17	1.17

Charge (\$) at 400 Kwh			
07-01-19	08-01-19	Difference	
87.84	87.84	0.00	
30.78	30.78	0.00	
22.22	22.22	0.00	
11.50	11.50	0.00	
152.34	152.34	0.00	
0.00	0.00	0.00	
3.49	3.49	0.00	
1.91	1.91	0.00	
0.00	0.00	0.00	
0.00	0.00	0.00	
0.00	0.00	0.00	
12.35	12.93	0.58	
1.17	1.17	0.00	
171.26	171.84		

Increase (Decrease -) % Change

0.58 0.34%

Base Rates
Base Fuel/Energy Charge
Non-fuel Fuel Energy Charge
First 250 kWhr per month
Next 500 kWhr per month
Customer Charge
Total Base Charges

Avg Residential Bill at 400 kwh

IRP Refund

Revenue Balancing Rate Adjustment
PBF Surcharge
Renewable Energy Infrastructure Cost
Recovery Provision
SolarSaver Adjustment
Refund of 2018 Interim
Energy Cost Adjustment
Green Infrastructure Fee

Avg Residential Bill at 500 kwh

Rate			
	07-01-19	08-01-19	
effective date:	06/01/19	06/01/19	
¢/kWh	21.9611	21.9611	
¢/kWh	12.3123	12.3123	
¢/kWh	14.8123	14.8123	
\$	11.50	11.50	
% on base	0.0000	0.0000	
¢/kWh	0.8716	0.8716	
¢/kWh	0.4775	0.4775	
¢/kWh	0.0000	0.0000	
¢/kWh	0.0000	0.0000	
% on Base	0.00	0.00	
¢/kWh	3.088	3.232	
\$	1.17	1.17	
Ψ	1.17	1.17	

Charg	ge (\$) at 500 Kwh			
07-01-19	08-01-19	Difference		
109.81	109.81	0.00		
30.78	30.78	0.00		
37.03	37.03	0.00		
11.50	11.50	0.00		
189.12	189.12	0.00		
0.00	0.00	0.00		
4.36	4.36	0.00		
2.39	2.39	0.00		
0.00	0.00	0.00		
0.00	0.00	0.00		
0.00	0.00	0.00		
15.44	16.16	0.72		
1.17	1.17	0.00		
212.48	213.20			

Increase (Decrease -) % Change

0.72	
0.34%	,

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

FUEL FACTOR CENTS / KWH

	CENTS / KWH		
	RESIDENTIAL &	RESIDENT	IAL BILL (\$)
EFFECTIVE DATE	COMMERCIAL	@ 400 KWH	@ 500 KWH
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	171.26	212.48
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

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
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 (20	12 TEST YE	EAR)
01/01/16 - 06/30/16	GREEN INFRASTRUCTURE FEE	1.3000	DOLLARS/MONTH
03/01/16 - 02/28/17	RENEWABLE ENERGY INFRASTRUCTURE COST	0.0099	CENTS/KWH
	RECOVERY PROVISION		
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		DOLLARS/MONTH
01/01/17 - 06/30/17	GREEN INFRASTRUCTURE FEE		DOLLARS/MONTH
03/01/17 - 08/16/17	RENEWABLE ENERGY INFRASTRUCTURE COST	0.0098	CENTS/KWH
	RECOVERY PROVISION		
04/01/17 - 04/30/17	SOLARSAVER ADJUSTMENT		CENTS/KWH
05/01/17 - 03/31/18	SOLARSAVER ADJUSTMENT		CENTS/KWH
06/01/17 - 05/31/18	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT		CENTS/KWH
07/01/17 - 12/31/17	GREEN INFRASTRUCTURE FEE		DOLLARS/MONTH
07/01/17 - 06/30/18	RESID. PBF SURCHARGE ADJUSTMENT		CENTS/KWH
08/17/17	RENEWABLE ENERGY INFRASTRUCTURE COST	0.0000	CENTS/KWH
	RECOVERY PROVISION		
01/01/18 - 06/30/18	GREEN INFRASTRUCTURE FEE		DOLLARS/MONTH
04/01/18 - 04/30/18	SOLARSAVER ADJUSTMENT		CENTS/KWH
05/01/18 - 03/31/19	SOLARSAVER ADJUSTMENT		CENTS/KWH
06/01/18 - 08/22/18	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT		CENTS/KWH
07/01/18 - 06/30/19	RESID. PBF SURCHARGE ADJUSTMENT		CENTS/KWH
07/01/18 - 12/31/18	GREEN INFRASTRUCTURE FEE		DOLLARS/MONTH
08/23/18 - 05/31/19	INTERIM RATE INCREASE 2018 TEST YEAR		PERCENT ON BASE
08/23/18 - 05/31/19	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT		CENTS/KWH
01/01/19 - 06/30/19	GREEN INFRASTRUCTURE FEE		DOLLARS/MONTH
04/01/19 - 04/30/19	SOLARSAVER ADJUSTMENT		CENTS/KWH
05/01/19	SOLARSAVER ADJUSTMENT		CENTS/KWH
06/01/19	FINAL RATE INCREASE (3.74%), DOCKET NO. 2017-0150 (20		-
06/01/19 - 06/30/19	REFUND OF INTERIM RATE INCREASE 2018 TEST YEAR		
06/01/19	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT		CENTS/KWH
07/01/19	RESID. PBF SURCHARGE ADJUSTMENT	0.4775	CENTS/KWH
07/01/19	GREEN INFRASTRUCTURE FEE	1.17	DOLLARS/MONTH

[~] Surcharges currently in effect are in bold.

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