

State of Hawaii



Public Utilities Commission

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SHARON M. SUZUKI
President

July 27, 2016

The Honorable Chair and Members
of the Hawai'i Public Utilities Commission
Kekuanaoa Building, First Floor
465 South King Street
Honolulu, Hawai'i 96813

Dear Commissioners:

Subject: Maui Electric Energy Cost Adjustment Factor for August 2016

Maui Electric Company, Limited's ("Maui Electric" or "Company") August 2016 energy cost adjustment factor for our Maui Division is -6.973 cents per kilowatt-hour ("kWh"), an increase of 0.361 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$149.89, an increase of \$1.81 compared to rates effective July 1, 2016.

The Company's Maui Division fuel composite cost of generation, central station and other increased 191.96 cents per million BTU to 1,188.40 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy decreased 0.103 cents per kWh to 18.852 cents per kWh.

The energy cost adjustment factor for our Lāna'i Division for August 2016 is -12.201 cents per kWh, a decrease of 0.368 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$138.17, a decrease of \$1.47 compared to rates effective July 1, 2016.

The Company's Lāna'i Division fuel composite cost of generation, central station and other decreased 18.74 cents per million BTU to 1,588.22 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 August 2016 is -9.906 cents per kWh, an increase of 2.769 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$133.11, an increase of \$11.08 compared to rates effective July 1, 2016.

The Company's Moloka'i Division fuel composite cost of generation, central station and other increased 219.02 cents per million BTU to 1,321.79 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 Honorable Chair and Members
of the Hawai'i Public Utilities Commission
July 27, 2016
Page 2

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, 2016.

Sincerely,

/s/ Sharon M. Suzuki

Sharon M. Suzuki
President

Attachments

cc: Division of Consumer Advocacy

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

ENERGY COST ADJUSTMENT FACTOR

	EFFECTIVE DATES		
	<u>07-01-16</u>	<u>08-01-16</u>	<u>Change</u>
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	1,606.96	1,588.22	(18.74)
DG Energy, ¢/kWh	0.00	0.00	0.00
Purchased Energy, ¢/kWh	27.00	27.00	0.00
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment, ¢/kWh	(11.833)	(12.201)	(0.368)
<u>Others - "G,P,F"</u>			
Energy Cost Adjustment, ¢/kWh	(11.833)	(12.201)	(0.368)
<u>Residential Customer with</u>			
400 KWH Consumption, \$/Bill	139.64	138.17	(1.47)
500 KWH Consumption, \$/Bill	173.68	171.84	(1.84)

Supersedes Sheet Effective:

July 1, 2016

MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION

ENERGY COST ADJUSTMENT (ECA) FILING

ENERGY COST ADJUSTMENT (ECA) FILING - August 1, 2016 (page 1 of 2)

Line

- 1 Effective Date August 1, 2016
2 Supercedes Factors of July 1, 2016

GENERATION COMPONENT

<u>CENTRAL STATION</u>					
FUEL PRICES, ¢/mmbtu					
3	Industrial			0.00	
4	Diesel - Miki Basin			1,588.22	
5	Diesel - Manele Bay			0.00	
6	Other			0.00	
BTU MIX, %					
7	Industrial			0.00%	
8	Diesel - Miki Basin			100.00%	
9	Diesel - Manele Bay ¹			0.00%	
10	Other			0.00%	
				<u>100.00%</u>	
11	COMPOSITE COST OF GENERATION, CENTRAL STATION + OTHER ¢/mmbtu			1,588.22	
	(Lines (3 x 7) + (4 x 8) + (5 x 9) + (6 x 10))				
12	% Input to System kWh Mix			91.71%	
EFFICIENCY FACTOR, mmbtu/kWh					
	(A)	(B)	(C)	(D)	
			Percent of		
			Centrl Stn +	Weighted	
	<u>Fuel Type</u>	<u>Eff Factor</u>	<u>Other</u>	<u>Eff Factor</u>	
		<u>mmbtu/kwh</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			0.011151	
	[lines 13(D) + 14(D) + 15(D)]				
17	WEIGHTED COMPOSITE CENTRAL STATION + OTHER GEN COST, ¢/kWh			16.24206	
	(lines (11 x 12 x 16))				
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			26.46322	
	(lines (18 x 19 x 20))				
22	COST LESS BASE (line(17 - 21))			(10.22116)	
23	Revenue Tax Req Multiplier			1.0975	
24	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (22 x 23))			-11.21772	
				<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)
					(11.21772)
				36	DG (line 34)
					-
				37	TOTAL GENERATION FACTOR, ¢/kWh (lines 35 + 36)
					(11.21772)

¹ The Manele CHP experienced a catastrophic fire on March 6, 2015. Its return to service is undetermined at this time.

MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION

ENERGY COST ADJUSTMENT (ECA) FILING

ENERGY COST ADJUSTMENT (ECA) FILING - August 1, 2016 (page 2 of 2)

Line

1 Effective Date August 1, 2016
2 Supercedes Factors of July 1, 2016

<u>Line</u>	<u>PURCHASED ENERGY COMPONENT</u>	
	PURCHASED ENERGY PRICE, ¢/kWh	
38	LANAI SOLAR RESEARCH - On Peak	27.000
39	- Off Peak	27.000
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))	27.000
45	% Input to System kWh Mix	8.29%
46	WEIGHTED COMP. PURCH. ENERGY COST, ¢/kWh (lines (44 x 45))	2.23830
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))	(0.55620)
51	Loss Factor	1.051
52	Revenue Tax Req Multiplier	1.0975
53	PURCHASED ENERGY FACTOR, ¢/kWh (lines (50 x 51 x 52))	(0.64156)

Line SYSTEM COMPOSITE CALCULATIONS

54 GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (11.85928)
(lines (37 + 53))
55 Adjustment, ¢/kWh 0.000
56 ECA Reconciliation Adjustment (0.342)
57 ECA FACTOR, ¢/kWh (12.201)
(lines (54 + 55 + 56))

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

MONTH END FUEL OIL ESTIMATE

<u>Miki Basin - ULSD</u>	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
7/21/2016	4,373.45	25,059.93	399,335.85
Estimated Use	1,489.24	8,533.35	137,127.44
Estimated Received	1,428.57	8,185.71	130,277.30
Estimated Additional	-	-	-
Estimated End	4,312.78	24,712.29	392,485.71

Next Month's Combined Miki Expense (\$/bbl) = \$ 91.0053 /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	\$ 91.0053	5.73 BTU/BBL	1,588.22

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

Contract Prices effective July 1, 2016

<u>TYPE OF OIL BURNED</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>
---------------------------	---------------	---------------

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 *	1.5120	26.39
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 and Environmental Response 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 2016

1. Amount to be refunded	(\$21,600)
2. Monthly amount (1 / 3 X Line 1)	(\$7,200)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$7,902)
5. Estimated Sales (August 2016)	2,314 mwh
6. Adjustment (Line 4 ÷ Line 5)	-0.342 ¢/kwh

**MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION
2016 FUEL OIL ADJUSTMENT RECONCILIATION SUMMARY
(Thousand \$)**

<u>Line</u>	Without Deadband 2nd Quarter <u>YTD Total</u>	collectn by <u>company*</u>	Basis for Recon With Deadband 2nd Quarter <u>YTD Total</u>	collectn by <u>company*</u>
ACTUAL COSTS:				
1	Generation	\$1,941.2	\$1,941.2	
2	Distributed Generation	\$0.0	\$0.0	
3	Purch Power	<u>\$336.0</u>	<u>\$336.0</u>	
4	TOTAL	\$2,277.2	\$2,277.2	
FUEL FILING COST (1)				
5	Generation	\$1,994.8	\$1,985.9	
6	Distributed Generation	\$0.0	\$0.0	
7	Purch Power	<u>\$336.0</u>	<u>\$336.0</u>	
8	TOTAL	\$2,330.9	\$2,321.9	
BASE FUEL COST				
9	Generation	\$3,851.9	\$3,851.9	
10	Distributed Generation	\$0.0	\$0.0	
11	Purch Power	<u>\$349.8</u>	<u>\$349.8</u>	
12	TOTAL	\$4,201.7	\$4,201.7	
13	FUEL-BASE COST (Line 8-12)	-\$1,870.8	-\$1,879.8	
14	ACTUAL FOA LESS TAX	-\$1,842.2	-\$1,842.2	
15	FOA reconciliation adj for prior year	<u>\$11.1</u>	<u>\$11.1</u>	
16	ADJUSTED FOA LESS TAX	-\$1,853.3	-\$1,853.3	
17	FOA-(FUEL-BASE) (Line 16-13)	\$17.5 Over	\$26.5 Over	
ADJUSTMENTS				
18	Current year FOA accrual reversal	\$10.0	\$10.0	
19	Other prior year FOA	\$0.0	\$0.0	
20	Other	<u>\$0.0</u>	<u>\$0.0</u>	
21	2nd QUARTER FOA RECONCILIATION (Lines 17+18+19+20)	\$27.5 Over	\$36.5 Over	
22	1st QUARTERLY YTD 2016 YTD FOA Reconciliation Recognized in FOA Rates		<u>\$14.9 Over</u>	
23	FOA Reconciliation to be Refunded August 2016 to October 2016 (Line 22- 21)		<u><u>-\$21.6 Refunded</u></u>	

* 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, 2016 through June 30, 2016

	<u>Notes</u>	<u>Jan 1 - Jun 30</u>
<u>Diesel</u>		
Diesel Efficiency Factor (TY2009), BTU/kWh	f	11,151
Diesel Deadband Definition, +/- BTU/kWh	d	50
Diesel Portion of Recorded Sales, MWh	a	13,101
Diesel Consumption (Recorded), MMBTU	b	142,463
Diesel Efficiency Factor (Recorded), BTU/kWh	c = (b/a)*1000	10,874
Lower limit of Diesel Deadband, BTU/kWh	e = f-d	11,101
Higher limit of Diesel Deadband, BTU/kWh	g = f+d	11,201
Diesel Efficiency Factor for cost-recovery, BTU/kWh	h = c, e, or g	11,101

**MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION
GENERATION FUEL FILING COST AND GENERATION BASE FUEL COST, WITHOUT and WITH DEADBAND
2016**

	<u>Without Deadband</u>	<u>With Deadband - AS FILED</u>
	<u>Jan 1 - Jun 30</u>	<u>Jan 1 - Jun 30</u>
Diesel Portion of Recorded Sales, MWH	13,101	13,101
Diesel Sales Efficiency Factor (mmbtu/kwh)	0.011151	0.011101
Mmbtu adjusted for Sales Efficiency Factor	146,095	145,440
\$/mmbtu	<u>\$13.6544</u>	<u>\$13.6544</u>
TOTAL DIESEL \$000s TO BE RECOVERED	\$1,994.8	\$1,985.9
TOTAL GENERATION FUEL FILING COST, \$000s	\$1,994.8	\$1,985.9
TOTAL GENERATION BASE FUEL COST , \$000s YTD	\$3,851.9	\$3,851.9
TOTAL GENERATION FUEL FILING COST, \$000s YTD	\$1,994.8	\$1,985.9
TOTAL GENERATION BASE FUEL COST, \$000s YTD	\$3,851.9	\$3,851.9

**MAUI ELECTRIC COMPANY, LTD.
LANAI DIVISION
2016 Cumulative Reconciliation Balance**

<u>Month</u>	(1) <u>YTD FOA</u> <u>Reconciliation</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 '15					(2,067)	(2,151)	1,855
January '16					(2,067)	(2,194)	(339)
February	(13,300)	(4)	(208)	(13,092)	4,433	4,591	(8,840)
March					4,433	4,930	(3,910)
April					4,433	5,061	1,151
May	14,900	(1)	528	14,372	(4,967)	(5,627)	9,896
June					(4,967)	(5,492)	4,404
July					(4,967)		
August	21,600	(2)	(557)	22,157	(7,200)		

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			
	07-01-16	08-01-16	07-01-16	08-01-16	Difference	
Base Rates	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
Total Base Charges				177.82	177.82	0.00
IRP Refund	% on base	0.0000	0.0000	0.00	0.00	0.00
Revenue Balancing Rate Adjustment	¢/kWh	1.4082	1.4082	5.63	5.63	0.00
PBF Surcharge	¢/kWh	0.5865	0.5865	2.35	2.35	0.00
Renewable Energy Infrastructure Cost						
Recovery Provision	¢/kWh	0.0099	0.0099	0.04	0.04	0.00
SolarSaver Adjustment	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
Energy Cost Adjustment	¢/kWh	-11.833	-12.201	-47.33	-48.80	-1.47
Green Infrastructure Fee	\$	1.13	1.13	1.13	1.13	0.00
Avg Residential Bill at 400 kwh				139.64	138.17	

Increase (Decrease -)	-1.47
% Change	-1.05%

	Rate		Charge (\$) at 500 Kwh			
	07-01-16	08-01-16	07-01-16	08-01-16	Difference	
Base Rates	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
Total Base Charges				221.70	221.70	0.00
IRP Refund	% on base	0.0000	0.0000	0.00	0.00	0.00
Revenue Balancing Rate Adjustment	¢/kWh	1.4082	1.4082	7.04	7.04	0.00
PBF Surcharge	¢/kWh	0.5865	0.5865	2.93	2.93	0.00
Renewable Energy Infrastructure Cost						
Recovery Provision	¢/kWh	0.0099	0.0099	0.05	0.05	0.00
SolarSaver Adjustment	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
Energy Cost Adjustment	¢/kWh	-11.833	-12.201	-59.17	-61.01	-1.84
Green Infrastructure Fee	\$	1.13	1.13	1.13	1.13	0.00
Avg Residential Bill at 500 kwh				173.68	171.84	

Increase (Decrease -)	-1.84
% Change	-1.06%

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

<u>EFFECTIVE DATE</u>	<u>FUEL FACTOR</u>		<u>RESIDENTIAL BILL (\$)</u>
	<u>CENTS / KWH</u>	<u>RESIDENTIAL & COMMERCIAL @ 400 KWH</u>	
January 1, 2014	0.693	187.14	233.37
February 1, 2014	1.420	190.05	237.00
March 1, 2014	1.370	189.85	236.75
April 1, 2014	1.854	190.81	237.94
May 1, 2014	-1.036	180.23	224.72
June 1, 2014	0.013	187.69	234.05
July 1, 2014	0.208	189.21	235.94
August 1, 2014	-0.179	187.66	234.00
September 1, 2014	-0.244	187.40	233.68
October 1, 2014	-3.591	174.02	216.94
November 1, 2014	-1.766	181.32	226.07
December 1, 2014	-3.365	175.18	218.07
January 1, 2015	-4.698	169.85	211.41
February 1, 2015	-7.361	159.20	198.09
March 1, 2015	-8.793	153.47	190.93
April 1, 2015	-6.831	160.22	199.37
May 1, 2015	-9.750	149.64	186.15
June 8, 2015	-8.842	153.16	190.56
July 1, 2015	-7.314	158.27	196.91
August 1, 2015	-8.457	153.70	191.19
September 1, 2015	-10.465	145.71	181.20
October 1, 2015	-12.259	138.53	172.23
November 1, 2015	-12.177	138.86	172.64
December 1, 2015	-11.304	142.35	177.01
January 1, 2016	-12.957	135.62	168.62
February 1, 2016	-14.236	130.51	162.23
March 1, 2016	-15.833	124.12	154.24
April 1, 2016	-15.204	125.90	156.47
May 1, 2016	-13.856	132.03	164.13
June 1, 2016	-12.617	136.22	169.37
July 1, 2016	-11.833	139.64	173.68
August 1, 2016	-12.201	138.17	171.84

**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
01/12/11 - 05/03/12	FINAL RATE INCREASE (3.65%), DOCKET NO. 2006-0387 (2007 TEST YEAR)	
01/12/11 - 05/03/12	INTERIM RATE INCREASE 2010 TEST YEAR	2.68 PERCENT ON BASE
02/01/11 - 02/28/11	IRP RECOVERY REFUND	-4.332 PERCENT ON BASE
03/01/11 - 04/30/11	IRP RECOVERY REFUND	0.000 PERCENT ON BASE
04/01/11 - 04/30/11	SOLARSAVER ADJUSTMENT	-0.0888 CENTS/KWH
05/01/11 - 03/31/12	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
05/01/11 - 05/31/11	IRP RECOVERY REFUND	-0.356 PERCENT ON BASE
06/01/11	IRP RECOVERY REFUND	0.000 PERCENT ON BASE
01/01/12 - 12/31/12	RESID. PBF SURCHARGE ADJUSTMENT	0.6766 CENTS/KWH
04/01/12 - 04/30/12	SOLARSAVER ADJUSTMENT	-0.2392 CENTS/KWH
05/01/12 - 03/31/13	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
5/4/2012 - 07/31/13	FINAL RATE INCREASE (1.51%), DOCKET NO. 2009-0163 (2010 TEST YEAR)	
6/1/2012 - 07/31/13	INTERIM RATE INCREASE 2012 TEST YEAR	4.02 PERCENT ON BASE
01/01/13 - 06/30/13	RESID. PBF SURCHARGE ADJUSTMENT	0.7850 CENTS/KWH
04/01/13 - 04/30/13	SOLARSAVER ADJUSTMENT	-0.2053 CENTS/KWH
05/01/13 - 03/31/14	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/13 - 05/31/14	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.8071 CENTS/KWH
07/01/13 - 06/30/14	RESID. PBF SURCHARGE ADJUSTMENT	0.8312 CENTS/KWH
08/01/13	FINAL RATE INCREASE (1.25%), DOCKET NO. 2011-0092 (2012 TEST YEAR)	
04/01/14 - 04/30/14	SOLARSAVER ADJUSTMENT	-0.2453 CENTS/KWH
05/01/14 - 03/31/15	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/14 - 05/31/15	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.6239 CENTS/KWH
07/01/14 - 11/30/14	RESID. PBF SURCHARGE ADJUSTMENT	1.0157 CENTS/KWH
12/01/14 - 06/30/15	RESID. PBF SURCHARGE ADJUSTMENT	0.7583 CENTS/KWH
12/01/14 - 06/30/15	GREEN INFRASTRUCTURE FEE	1.29 DOLLARS/MONTH
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	1.3000 DOLLARS/MONTH
03/01/16	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	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/16	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.4082 CENTS/KWH
07/01/16	RESID. PBF SURCHARGE ADJUSTMENT	0.5865 CENTS/KWH
07/01/16	GREEN INFRASTRUCTURE FEE	1.13 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.