### State of Hawaii



### **Public Utilities Commission**

#### The Hawaii Public Utilities Commission Acknowledges Receipt of Your Submittal.

Form: Hawaii PUC eFile Non-Docketed

Entity: Maui Electric Company, Limited

Confirmation

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SHARON M. SUZUKI President

July 29, 2015

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 2015

Maui Electric Company, Limited's ("Maui Electric" or "Company") August 2015 energy cost adjustment factor for our Maui Division is -4.415 cents per kilowatt-hour ("kWh"), a decrease of 0.079 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$164.11, a decrease of \$0.33 compared to rates effective July 1, 2015. The decrease in the typical residential bill is due to the decrease in the energy cost adjustment factor (-\$0.40) and the increase in the Purchased Power Adjustment Clause rate (+\$0.07).

The Company's Maui Division fuel composite cost of generation, central station and other decreased 31.64 cents per million BTU to 1,412.85 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy decreased 0.269 cents per kWh to 18,745 cents per kWh.

The energy cost adjustment factor for our Lāna'i Division for August 2015 is -8.457 cents per kWh, a decrease of 1.143 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$153.70, a decrease of \$4.57 compared to rates effective July 1, 2015.

The Company's Lāna'i Division fuel composite cost of generation, central station and other decreased 103.49 cents per million BTU to 1,910.25 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 2015 is -5.864 cents per kWh, an increase of 0.321 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$149.83, an increase of \$1.28 compared to rates effective July 1, 2015.

The Company's Moloka'i Division fuel composite cost of generation, central station and other increased 19.25 cents per million BTU to 1,664.57 cents per million BTU. The composite

The Honorable Chair and Members of the Hawai'i Public Utilities Commission July 29, 2015 Page 2

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, 2015.

Sincerely,

/s/ Sharon M. Suzuki

Sharon M. Suzuki President

Attachments

cc: Division of Consumer Advocacy

#### **ENERGY COST ADJUSTMENT FACTOR**

	EFFECTIV	_	
	<u>07/01/2015</u>	<u>06/01/2015</u>	
COMPOSITE COSTS			
Generation, Central Station & Other, ¢/mbtu	1,444.49	1,412.85	(31.64)
DG Energy, ¢/kWh	0.00	0.00	0.000
Purchased Energy, ¢/kWh	19.014	18.745	(0.269)
Residential Schedule "R"			
Energy Cost Adjustment, ¢/kWh	(4.336)	(4.415)	(0.079)
Others - "G,H,P,F"			
Energy Cost Adjustment, ¢/kWh	(4.336)	(4.415)	(0.079)
Residential Customer with			
500 KWH Consumption, \$/Bill	164.44	164.11	(0.33)
600 KWH Consumption, \$/Bill	196.93	196.54	(0.39)

Supersedes Sheet Effective: July 1, 2015

#### MAUI ELECTRIC COMPANY, LTD. MAUI DIVISION ENERGY COST ADJUSTMENT (ECA) FILING

ENERGY COST ADJUSTMENT (ECA) FILING - August 1, 2015 (page 1 of 2)

Line
1 Effective Date
2 Supercedes Factors of August 1, 2015 July 1, 2015

#### **GENERATION COMPONENT**

FUEL PRICES, g/mmbtu			CENTRAL	. STATION			
## Dissel		FUEL PRICES					
BTU MIX, % 6 Industrial 26.31% 7 Diesel 73.69% 8 Other 2.00% 100.00% 100.00% 9 COMPOSITE COST OF GENERATION, CENTRAL STATION + OTHER ¢/mmbtu (Lines (3 x 6) + (4 x 7) + (5 x 8)) 10 % Input to System kWh Mix 0.00  EFFICIENCY FACTOR, mmbtu/kWh (B) (C) (D) Percent of Eul Type mmbtu/kwh Other Eff Factor Cent I Stn + Euel Type 0.010026 81.69 0.008190 11 Industrial 0.015126 18.31 0.00277 0.00277 0.000582 Diesel 0.010026 81.69 0.008190 12 Diesel 0.010026 81.69 0.008190 13 Other 0.010951 0.000 0.0000114 Weighted Efficiency Factor, mmbtu/kWh (lines 11,12,13). CO(B) x Co(C) = Co(D) 14 Weighted Efficiency Factor, mmbtu/kWh (lines 9 x 10 x 14)) 9.61608 16 BASE CENTRAL STATION + OTHER GENERATION COST, ¢/mmbtu (lines (16 x 17 x 18)) 17.26909 17 Base % Input to System kWh Mix 78.09 18 Efficiency Factor, mmbtu/kWh (lines (16 x 17 x 18)) 17.26909 20 COST LESS BASE (line (15 - 19)) (7.65301) 21 Revenue Tax Req Multiplier 1.0.975 22 CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (Line 22) (8.3991) 23 COMPOSITE COST OF DG ENERGY COST (P/kWh (Lines 23 x 24)) - COST (P/kWh (Line 25 x 28)) 0.00000 - COST (P/kWh (Lines 25 x 28)) 0.00000 - COST (P	3	Industrial			845.53		
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16 BASE CENTRAL STATION + OTHER GENERATION				<i>y</i>	9.61608		
COST, ¢/mmbtu 2,019.39  17 Base % Input to Sys kWh Mix 78.09  18 Efficiency Factor, mmbtu/kwh 0.010951  19 WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST ¢/kWh (lines (16 x 17 x 18)) 17.26909  20 COST LESS BASE (line(15 - 19)) (7.65301)  21 Revenue Tax Req Multiplier 1.0975  22 CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (20 x 21)) (8.39918)  35 TOTAL GENERATION FACTOR,		(	, ,				
17 Base % Input to Sys kWh Mix 78.09 18 Efficiency Factor, mmbtu/kwh 0.010951 19 WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST ¢/kWh (lines (16 x 17 x 18)) 17.26909  20 COST LESS BASE (line(15 - 19)) (7.65301) 21 Revenue Tax Req Multiplier 1.0975 22 CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (20 x 21)) (8.39918)  35 TOTAL GENERATION FACTOR,	16	BASE CENTRA	AL STATION + OT	THER GENERATI	ON		
18 Efficiency Factor, mmbtu/kwh					2,019.39		
19 WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST ¢/kWh (lines (16 x 17 x 18))  17.26909  20 COST LESS BASE (line(15 - 19)) 21 Revenue Tax Req Multiplier 21 Revenue Tax Req Multiplier 22 CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (20 x 21))  23 SUMMARY OF TOTAL GENERATION FACTOR, ¢/kWh 33 CNTRL STN + OTHER (line 22) 34 DG (line 32) - 35 TOTAL GENERATION FACTOR,	17	Base % Input to	o Sys kWh Mix		78.09		
GENERATION COST ¢/kWh ((lines (16 x 17 x 18)) 17.26909  COST LESS BASE (line(15 - 19)) (7.65301) Revenue Tax Req Multiplier 1.0975 CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (20 x 21)) (8.39918)  SUMMARY OF TOTAL GENERATION FACTOR, ¢/kWh 33 CNTRL STN + OTHER (line 22) (8.39918) 34 DG (line 32) - TACTOR, ¢/kWh (line (20 x 21)) (8.39918)							
(lines (16 x 17 x 18))  17.26909  SUMMARY OF  TOTAL GENERATION FACTOR, ¢/kWh  1.0975  COST LESS BASE (line(15 - 19))  Revenue Tax Req Multiplier  1.0975  CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (20 x 21))  (8.39918)  SUMMARY OF  TOTAL GENERATION FACTOR, ¢/kWh  33 CNTRL STN + OTHER (line 22)  34 DG (line 32)  FACTOR, ¢/kWh (line (20 x 21))  35 TOTAL GENERATION FACTOR,	19			TATION + OTHER	₹		
SUMMARY OF					47.00000		
20 COST LESS BASE (line(15 - 19))       (7.65301)       TOTAL GENERATION FACTOR, ¢/kWh         21 Revenue Tax Req Multiplier       1.0975       33 CNTRL STN + OTHER (line 22)       (8.3991         22 CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (20 x 21))       (8.39918)       35 TOTAL GENERATION FACTOR,		(lines (16 x 1	7 x 18))		17.26909	CHMMADY OF	
21 Revenue Tax Req Multiplier       1.0975       33 CNTRL STN + OTHER (line 22)       (8.3991         22 CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (20 x 21))       (8.39918)       35 TOTAL GENERATION FACTOR,	20	COSTLESS B	ΔSF (line(15 - 10)	)	(7.65301)		
22 CENTRAL STATION + OTHER GENERATION 34 DG (line 32) - FACTOR, ¢/kWh (line (20 x 21)) (8.39918) 35 TOTAL GENERATION FACTOR,			, , ,	''	. ,		(8.39918)
FACTOR, ¢/kWh (line (20 x 21)) (8.39918) 35 TOTAL GENERATION FACTOR,				GENERATION	1.0373	, ,	(0.00010)
					(8.39918)	,	
, , , , , , , , , , , , , , , , , , , ,		, <i>p</i> ///	( (20 X 21	"	(0.00010)	•	(8.39918)
						, , , , , , , , , , , , , , , , , , , ,	(= ====)

## MAUI ELECTRIC COMPANY, LTD. MAUI DIVISION ENERGY COST ADJUSTMENT (ECA) FILING

ENERGY COST ADJUSTMENT (ECA) FILING - August 1, 2015 (page 2 of 2)

Line

1 Effective Date August 1, 2015 2 Supercedes Factors of July 1, 2015

37       - Off Peak       12         38 HC&S - Unscheduled       - On Peak       13         39       - Off Peak       12         40 Kaheawa Wind I       - On Peak       13         41       - Off Peak       12         42 Kaheawa Wind II       24	.866 .216 .866 .216 .368 .569 .199 .914 .866		
36       HC&S - Regular       - On Peak       13         37       - Off Peak       12         38       HC&S - Unscheduled       - On Peak       13         39       - Off Peak       12         40       Kaheawa Wind I       - On Peak       13         41       - Off Peak       12         42       Kaheawa Wind II       24	.216 .866 .216 .368 .569 .199 .914 .866 .216		
37       - Off Peak       12         38 HC&S - Unscheduled       - On Peak       13         39       - Off Peak       12         40 Kaheawa Wind I       - On Peak       13         41       - Off Peak       12         42 Kaheawa Wind II       24	.216 .866 .216 .368 .569 .199 .914 .866 .216		
38 HC&S - Unscheduled       - On Peak       13         39 - Off Peak       12         40 Kaheawa Wind I       - On Peak       13         41 - Off Peak       12         42 Kaheawa Wind II       24	.866 .216 .368 .569 .199 .914 .866		
39       - Off Peak       12         40 Kaheawa Wind I       - On Peak       13         41       - Off Peak       12         42 Kaheawa Wind II       24	.216 .368 .569 .199 .914 .866 .216		
40 Kaheawa Wind I - On Peak 13 41 - Off Peak 12 42 Kaheawa Wind II 24	.368 .569 .199 .914 .866		
41 - Off Peak 12 42 Kaheawa Wind II 24	.569 .199 .914 .866 .216		
42 Kaheawa Wind II 24	.199 .914 .866 .216		
	.914 .866 .216		
	.866 .216		
· ·	.216		
<b>3</b> · · · · · · · · · · · · · · · · · · ·	-		
46 FIT 22	.010		
PURCHASED ENERGY KWH MIX, %			
*	.00%		
· ·	.00%		
49 HC&S - Unscheduled - On Peak 0	.00%		
	.00%		
51 Kaheawa Wind I - On Peak 21	.51%		
52 - Off Peak 18	.15%		
53 Kaheawa Wind II - On Peak 28	.68%		
54 Sempra Wind - On Peak 27	.27%		
54 Sempra Wind       - On Peak       27         55 Hydro & Other       - On Peak       0         56       - Off Peak       0	.14%		
56 - Off Peak 0	.10%		
57 FIT <u>4</u>	.15%		
<u>100</u>	.00%		
58 COMPOSITE COST OF PURCHASED			
	.745		
(Lines (36 x 49) + (37 x 50) + (38 x 51) + (39 x 52)			
+ (40 x 53) + (41 x 54) + (42 x 55) + (43 x 54) + (44 x 55)			
+ (45 x 56) + (46 x 57)			
	.90%		
60 WEIGHTED COMPOSITE PURCHASED ENERGY			
COST, ¢/kWh (lines (58 x 59)) 7.10	0436		
61 BASE PURCHASED ENERGY			
COMPOSITE COST, ¢/kWh 15	.847		
62 Base % Input to Sys kWh Mix 2	1.90		
63 WEIGHTED BASE PURCHASED ENERGY			
COST, ¢/kWh (lines (61 x 62)) 3.47	7049		
64 COST LESS BASE (lines (60 - 63)) 3.63	3387		
, , , , , , , , , , , , , , , , , , , ,	.063		
	0975		
PURCHASED ENERGY FACTOR, ¢/kWh 4.2394			
(lines (64 x 65 x 66))			

#### <u>Line</u> <u>SYSTEM COMPOSITE CALCULATIONS</u>

68 GENERATION AND PURCHASED ENERGY	
FACTOR, ¢/kWh	(4.15975)
(lines (35 + 67))	
69 ADJUSTMENT, ¢/kWH	
70 ECA Reconciliation Adjustment	(0.255)
71 ECA FACTOR, ¢/kWh	(4.415)
(lines (68 + 69 + 70))	

#### **Fuel Oil Inventory Prices for August 2015**

TYPE OF OIL BURNED	PRICES \$/BBL	CONVERSION FACTORS	PRICES ¢/MBTU
INDUSTRIAL	53.2682	6.30 MBTU/BBL	845.53
DIESEL/ULSD	94.6628	5.86 MBTU/BBL	1,615.41

## Maui Electric Company, Ltd. Maui Division

#### **Month End Fuel Oil Estimate**

<u>Kahului</u>	hului Barrels MBTU		(\$)
7/21/2015 54,072.553 Estimated Use 5,697.490 Estimated Received 0.000 Estimated Additional 0.000 Estimated End 48,375.063		339,594.14 30,329.64 0.00 0.00 309,264.50	2,906,592.51 329,742.38 0.00 0.00 2,576,850.13
Next month's expo	ense (\$/bbl) =	\$ 53.2682	
<u>Maalaea</u>	Barrels	MBTU	(\$)
7/21/2015 Estimated Use Estimated Received Estimated Additional Estimated End	101,665.069 35,010.855 300.000 12,883.990 79,838.204	595,282.72 205,000.17 1,756.60 75,500.16 467,539.31	9,771,450.88 3,378,375.94 28,149.57 1,136,481.30 7,557,705.81

Next month's expense (\$/bbl) = \$ 94.6628

#### **Contract Prices effective July 1, 2015**

TYPE OF OIL BURNED	\$/BBL	¢/MBTU
INDUSTRIAL		
Tax *	3.4674	55.04
Ocean Transportation	1.9920	31.62
Land Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.2400	3.81
DIESEL		
Tax *	5.5940	95.46
Ocean Transportation	1.9920	33.99
Land Transportation	0.9913	16.92
Storage	2.0625	35.20
Wharfage	0.2400	4.10

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.

<sup>\*</sup> Tax includes HGET, Hawaii Use Tax, Liquid Fuel Tax, LUST tax and Environmental Response Tax.

12.569

### MAUI ELECTRIC COMPANY, LTD. MAUI DIVISION

#### PURCHASED POWER PRICE CALCULATIONS

HC&S PRICE DETERMINATION:	Avoided Cost *
Firm Power - On Peak, ¢/kWh - Off Peak, ¢/kWh	13.866 12.216
Emergency - On Peak, ¢/kWh - Off Peak, ¢/kWh	13.866 12.216
* Avoided cost for August 2015	
KAHEAWA WIND POWER ENERGY RATE: Kaheawa Wind - On Peak, ¢/kWh	13.368

#### Kaheawa Wind Energy Rate Calculations:

#### Percent of Energy Payment Rate:

Fixed energy payment rate 70% Flat payment rate 30% 100%

#### Fixed Energy Payment Rate (Table D-1) for 2015:

- Off Peak, ¢/kWh

On-peak, ¢/kwh 9.668 Off-peak, ¢/kwh 8.527

#### Flat Payment Rate Per Docket No. 2011-0192 D&O 30331:

On-peak, ¢/kwh 22.000 Off-peak, ¢/kwh 22.000

On-Peak Rate = 9.668 ¢/kwh x 0.7 + 22.000 ¢/kwh x 0.3 = 13.368 ¢/kwhOff-Peak Rate = 8.527 ¢/kwh x 0.7 + 22.000 ¢/kwh x 0.3 = 12.569 ¢/kwh

# MAUI ELECTRIC COMPANY, LTD. Maui Division ECA Reconciliation Adjustment August 2015

1. Amount to be Refunded	(\$635,000)
2. Monthly amount (1 / 3 X Line 1)	(\$211,667)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$232,308)
5. Estimated Sales (August 2015)	91,222 mwh
6. Adjustment (Line 4 ÷ Line 5)	(0.255) ¢/kwh

## MAUI ELECTRIC COMPANY, LTD. MAUI DIVISION 2015 FUEL OIL ADJUSTMENT RECONCILIATION SUMMARY (Thousand \$)

Line		W/O Deadband 2nd Quarter <u>YTD Total</u>	collectn by company*	Basis for Recon With Deadband 2nd Quarter YTD Total	collectn by company*
	ACTUAL COSTS:				
1	Generation	\$55,474.2		\$55,474.2	
2	Distributed Generation	\$35.9		\$35.9	
3	Purch Power	\$27,330.1		\$27,330.1	
4	TOTAL	\$82,840.2		\$82,840.2	
	FUEL FILING COST (1)				
5	Generation	\$56,606.3		\$56,173.0	
6	Distributed Generation	\$0.0		\$0.0	
7	Purch Power	\$27,330.1		\$27,330.1	
8	TOTAL	\$83,936.4		\$83,503.1	
	BASE FUEL COST				
9	Generation	\$75,359.1		\$75,359.1	
10	Distributed Generation	\$25.4		\$25.4	
11	Purch Power	\$31,477.8		\$31,477.8	
12	TOTAL	\$106,862.3		\$106,862.3	
13	FUEL-BASE COST (Line 8-12)	-\$22,925.9		-\$23,359.2	
14	ACTUAL FOA LESS TAX	-\$23,824.4		-\$23,824.4	
15	FOA reconciliation adj for prior year	-\$1,308.6		-\$1,308.6	
16	ADJUSTED FOA LESS TAX	-\$22,515.8		-\$22,515.8	
17	FOA-(FUEL-BASE) (Line 16-13)	\$410.1	Over	\$843.4	Over
	ADJUSTMENTS				
18	Current year FOA accrual reversal	\$416.6		\$416.6	
19	Other prior year FOA	\$0.0		\$0.0	
20	Other	\$0.0		\$0.0	
21	2nd QUARTERLY FOA RECONCILIATION (Line 17+18+19+20)	\$826.7	Over	\$1,260.0	Over
22	1st QUARTERLY YTD 2015 YTD FOA Reconciliation Recognized	I in FOA Rates		\$625.0	Over
23	FOA Reconciliation to be Refunded August 2015 to October 2015	(Line 22- 21)		-\$635.0	To Be Refunded

<sup>\*</sup> Over means an over-collection by the company. Under means an under-collection by the company.

Determination of Efficiency Factor to use for Cost-Recovery Purposes Period: January 1, 2015 through June 30, 2015

	Notes	<u>Jan 1 - Jun 30</u>
Industrial Fuel Oil		•
Industrial Fuel Oil Efficiency Factor (TY2012), BTU/kWh	f	15,126
Industrial Fuel Oil Deadband Definition, +/- BTU/kWh	d	100
Industrial Fuel Oil Portion of Recorded Sales, MWh	а	54,216
Industrial Fuel Oil Consumption (Recorded), MMBTU	b	844,333
Industrial Fuel Oil Efficiency Factor (Recorded), BTU/kWh	c = (b/a)*1000	15,573
Lower limit of Industrial Fuel Oil Deadband, BTU/kWh	e = f-d	15,026
Higher limit of Industrial Fuel Oil Deadband, BTU/kWh	g = f+d	15,226
riigher iiiniit or industrial r der oli bedabaria, b r o/kwii	g = 11 u	10,220
Industrial Fuel Oil Efficiency Factor for cost-recovery, BTU/kWl	<b>1</b> h = c, e, or g	15,226
Diesel		
Diesel Efficiency Factor (TY2009), BTU/kWh	f	10,026
Diesel Deadband Definition, +/- BTU/kWh	d	100
Diesel Portion of Recorded Sales, MWh	а	305,353
Diesel Consumption (Recorded), MMBTU	b	2,980,815
Diesel Efficiency Factor (Recorded), BTU/kWh	c = (b/a)*1000	9,762
Lower limit of Diesel Deadband, BTU/kWh	e = f-d	9,926
Higher limit of Diesel Deadband, BTU/kWh	g = f+d	10,126
Diesel Efficiency Factor for cost-recovery, BTU/kWh	h = c, e, or g	9,926

## MAUI ELECTRIC COMPANY, LTD. MAUI DIVISION GENERATION FUEL FILING COST AND GENERATION BASE FUEL COST, WITHOUT and WITH DEADBAND 2015

	Without Deadband	With Deadband - AS FILED
	<u>Jan 1 - Jun 30</u>	<u>Jan 1 - Jun 30</u>
INDUSTRIAL		
Industrial Portion of Recorded Sales , MWH	54,216	54,216
Industrial Sales Efficiency Factor (mmbtu/kwh)	0.015126	0.015226
Mmbtu adjusted for Sales Efficiency Factor	820,078	825,500
\$/mmbtu	\$9.6528	\$9.652 <u>8</u>
TOTAL Industrial \$000s TO BE RECOVERED	\$7,916.1	\$7,968.4
DIESEL FUEL FILING COST		
Diesel Portion of Recorded Sales, MWH	305,353	305,353
Diesel Sales Efficiency Factor (mmbtu/kwh)	0.010026	0.009926
Mmbtu adjusted for Sales Efficiency Factor	3,061,464	3,030,929
\$/mmbtu	<u>\$15.9042</u>	<u>\$15.9042</u>
TOTAL DIESEL \$000s TO BE RECOVERED	\$48,690.2	\$48,204.6
TOTAL GENERATION FUEL FILING COST, \$000s	\$56,606.3	\$56,173.0
TOTAL GENERATION BASE FUEL COST , \$000s YTD	\$75,359.1	\$75,359.1
TOTAL OF NEDATION FUEL FULING GOOT 2000 VTD	<b>\$</b> 50,000,0	250.470.0
TOTAL GENERATION FUEL FILING COST, \$000s YTD	\$56,606.3	\$56,173.0
TOTAL GENERATION BASE FUEL COST, \$000s YTD	\$75,359.1	\$75,359.1

## MAUI ELECTRIC COMPANY, LTD. MAUI DIVISION 2015 Cumulative Reconciliation Balance

	(1) YTD FOA		(2) FOA Rec	(3) FOA Rec	(4)	(5)	(6) Month-end
<u>Month</u>	Reconciliation	<u>Qtr</u>	Adjust <u>Variance</u>	Less <u>Variance</u>	Try to Collect	Actual <u>Collect</u>	Cumulative <u>Balance</u>
December '14 January '15	1				202,500 202,500	208,355 198,116	(201,840) (3,724)
February	1,511,200	(4)	655	1,510,545	(503,733)	(523,409)	983,412
March					(503,733)	(506,321)	477,091
April					(503,733)	(531,689)	(54,598)
May	625,000	(1)	(26,648)	651,648	(208,333)	(207,610)	389,440
June					(208,333)	(218,425)	171,015
July		(2)	(0= 00=)		(208,333)		
August	635,000	(2)	(37,325)	672,325	(211,667)		
NOTES:							
Col(1):	Quarterly FOA re A positive numb			•	•	under-collect	ion.
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 difference minus	_		-		A reconciliati	on
Col(4):	Amount that the	FOA re	econciliation ad	justment is try	ing to collect.	(Col(1) * 1/3	)

Actual collected amount. (recorded sales \* \$/kwh adjustment/1.09751)

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

Col(5): Col(6):

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

Base Rates
Base Fuel/Energy Charge
Non-fuel Fuel Energy Charge
First 350 kWhr per month
Next 850 kWhr per month
Customer Charge
Total Base Charges
RBA Rate Adjustment
RBA Rate Adjustment PBF Surcharge
•
PBF Surcharge
PBF Surcharge
PBF Surcharge SolarSaver Adjustment
PBF Surcharge SolarSaver Adjustment Purchased Power Adjustment
PBF Surcharge SolarSaver Adjustment Purchased Power Adjustment Energy Cost Adjustment

	Rate	
	07/01/15	08/01/15
effective date:	08/01/13	08/01/13
¢/kWh	23.0016	23.0016
¢/kWh	9.3393	9.3393
¢/kWh	11.5993	11.5993
\$	8.50	8.50
¢/kWh	1.5987	1.5987
¢/kWh	0.4749	0.4749
¢/kWh	0.0000	0.0000
¢/kWh	0.1482	0.1613
¢/kWh	-4.336	-4.415
\$	1.42	1.42

Charge (\$) at 500 Kwh				
07/01/15	08/01/15	Difference		
115.01	115.01	0.00		
32.69	32.69	0.00		
17.40	17.40	0.00		
8.50	8.50	0.00		
173.60	173.60	0.00		
7.99	7.99	0.00		
2.37	2.37	0.00		
0.00	0.00	0.00		
0.74	0.81	0.07		
-21.68	-22.08	-0.40		
1.42	1.42	0.00		
164.44	164.11			

Increase (Decrease -) % Change

-0.33 -0.20%

Raca	Rates
Dase	nates

Base Fuel/Energy Charge Non-fuel Fuel Energy Charge First 350 kWhr per month Next 850 kWhr per month Customer Charge Total Base Charges

RBA Rate Adjustment

PBF Surcharge SolarSaver Adjustment

Purchased Power Adjustment Energy Cost Adjustment Green Infrastructure Fee

Avg Residential Bill at 600 kwh

	Rate	
	07/01/15	08/01/15
effective date:	08/01/13	08/01/13
¢/kWh	23.0016	23.0016
¢/kWh	9.3393	9.3393
¢/kWh	11.5993	11.5993
\$	8.50	8.50
¢/kWh	1.5987	1.5987
¢/kWh	0.4749	0.4749
¢/kWh	0.0000	0.0000
¢/kWh	0.1482	0.1613
¢/kWh	-4.336	-4.415
\$	1.42	1.42

Charge (\$) at 600 Kwh				
07/01/15	08/01/15	Difference		
138.01	138.01	0.00		
32.69	32.69	0.00		
29.00	29.00	0.00		
8.50	8.50	0.00		
208.20	208.20	0.00		
9.59	9.59	0.00		
2.85	2.85	0.00		
0.00	0.00	0.00		
0.89	0.97	0.08		
-26.02	-26.49	-0.47		
1.42	1.42	0.00		
196.93	196.54			

Increase (Decrease -) % Change

0.200/	0.39	
-0.20%	20%	

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

FUEL FACTOR CENTS / KWH

EFFECTIVE DATE	CENTS / KWH RESIDENTIAL & COMMERCIAL	RESIDENT @ 500 KWH	IAL BILL (\$) @ 600 KWH
January 1, 2012 February 1, 2012	8.030 6.306	195.03 186.40	233.08 222.73
March 1, 2012	6.761	188.68	225.46
April 1, 2012	7.218	189.76	226.76
May 1, 2012	8.690	198.32	237.03
May 4, 2012	11.832	196.46	235.63
June 1, 2012	11.776	201.69	241.90
July 1, 2012	10.387	194.75	233.56
August 1, 2012 September 1, 2012	8.356 7.827	184.52 181.88	221.30 218.12
October 1, 2012	9.087	188.18	225.68
November 1, 2012	12.583	205.50	246.47
December 1, 2012	12.480	204.98	245.85
January 1, 2013	11.223	199.25	238.96
February 1, 2013	9.649	191.15	229.23 230.72
March 1, 2013 April 1, 2013	9.897 10.342	192.39 193.58	230.72
May 1, 2013	9.969	193.04	231.49
June 1, 2013	8.972	192.09	230.35
July 1, 2013	8.113	188.03	225.48
August 1, 2013	0.827	186.89	224.13
September 1, 2013	1.230	188.88	226.53
October 1, 2013	2.268	194.08	232.77
November 1, 2013	2.624	195.32	234.25
December 1, 2013	1.889	191.68	229.88
January 1, 2014	1.733	190.94	229.00
February 1, 2014	2.238	193.25	231.77
March 1, 2014	1.978	192.02	230.29
April 1, 2014	1.754	189.62	227.42
May 1, 2014	2.175	193.66	232.25
June 1, 2014	1.675	195.24	234.15
July 1, 2014	1.679	196.18	235.28
August 1, 2014	1.134	193.54	232.12
September 1, 2014	0.855	192.16	230.46
October 1, 2014	0.880	192.27	230.60
November 1, 2014	1.135	193.01	231.48
December 1, 2014	0.325	188.98	226.39
January 1, 2015	-0.702	183.85	220.24
February 1, 2015	-4.255	165.96	198.78
March 1, 2015	-7.740	148.62	177.96
April 1, 2015	-6.921	151.30	181.18
May 1, 2015	-6.092	157.06	188.10
- ·	-4.794		
June 8, 2015		163.43	195.74
July 1, 2015	-4.336	164.44	196.93
August 1, 2015	-4.415	164.11	196.54

#### MAUI ELECTRIC COMPANY, LTD. -- Maui Division RESIDENTIAL SURCHARGE DATA

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE		RATE
04/04/44 40/04 44	DEGID DDE GUDGUADOE AD JUGTAFAIT	0.5044	OENTO #ANIL
01/01/11 - 12/31-11	RESID. PBF SURCHARGE ADJUSTMENT		CENTS/KWH
01/12/11 - 05/03/12 01/12/11 - 05/03/12	FINAL RATE INCREASE (3.65%), DOCKET NO. 2006-0387 INTERIM RATE INCREASE 2010 TEST YEAR		PERCENT ON BASE
01/12/11 - 01/31/11	FIRM CAP SURCHARGE		PERCENT ON BASE
02/01/11 - 04/30/11	FIRM CAP SURCHARGE		PERCENT ON BASE
02/01/11 - 02/28/11	IRP RECOVERY REFUND	-3.630	PERCENT ON BASE
03/01/11 - 04/30/11	IRP RECOVERY REFUND		PERCENT ON BASE
04/01/11 - 04/30/11	SOLARSAVER ADJUSTMENT		CENTS/KWH
05/01/11 - 03/31/12 05/01/11 - 05/31/11	SOLARSAVER ADJUSTMENT IRP RECOVERY REFUND		CENTS/KWH PERCENT ON BASE
05/01/11 - 05/31/11	FIRM CAP SURCHARGE		PERCENT ON BASE
06/01/11	IRP RECOVERY REFUND		PERCENT ON BASE
08/01/11 - 10/31/11	FIRM CAP SURCHARGE		PERCENT ON BASE
11/01/11 - 01/31/12	FIRM CAP SURCHARGE	0.0047	PERCENT ON BASE
01/01/12 - 12/31/12	RESID. PBF SURCHARGE ADJUSTMENT	0.6766	CENTS/KWH
02/01/12 - 05/03/12	FIRM CAP SURCHARGE		PERCENT ON BASE
04/01/12 - 04/30/12	SOLARSAVER ADJUSTMENT		CENTS/KWH
05/01/12 - 03/31/13 05/4/2012 - 07/31/13	SOLARSAVER ADJUSTMENT FINAL RATE INCREASE (1.51%), DOCKET NO. 2009-0163		CENTS/KWH
05/04/12 - 07/31/12	PURCHASED POWER ADJUSTMENT		CENTS/KWH
06/1/2012 - 07/31/13	INTERIM RATE INCREASE 2012 TEST YEAR		PERCENT ON BASE
08/01/12 - 10/31/12	PURCHASED POWER ADJUSTMENT		CENTS/KWH
11/1/2012 - 01/31/13	PURCHASED POWER ADJUSTMENT	0.1427	CENTS/KWH
01/01/13 - 06/30/13	RESID. PBF SURCHARGE ADJUSTMENT		CENTS/KWH
02/01/13 - 04/30/13	PURCHASED POWER ADJUSTMENT		CENTS/KWH
04/01/13 - 04/30/13	SOLARSAVER ADJUSTMENT		CENTS/KWH
05/01/13 - 03/31/14	SOLARSAVER ADJUSTMENT		CENTS/KWH CENTS/KWH
05/01/13 - 07/31/13 06/01/13 - 05/31/14	PURCHASED POWER ADJUSTMENT REVENUE BALANCING ACCOUNT RATE ADJUSTMENT		CENTS/KWH
07/01/13 - 06/30/14	RESID. PBF SURCHARGE ADJUSTMENT		CENTS/KWH
08/01/13	FINAL RATE INCREASE (1.25%), DOCKET NO. 2011-0092		
08/01/13 - 08/31/13	PURCHASED POWER ADJUSTMENT		CENTS/KWH
09/01/13 - 09/30/13	PURCHASED POWER ADJUSTMENT	0.1865	CENTS/KWH
10/01/13 - 10/31/13	PURCHASED POWER ADJUSTMENT		CENTS/KWH
11/01/13 - 11/30/13	PURCHASED POWER ADJUSTMENT		CENTS/KWH
12/01/13 - 12/31/13	PURCHASED POWER ADJUSTMENT		CENTS/KWH
01/01/14 - 01/31/14	PURCHASED POWER ADJUSTMENT PURCHASED POWER ADJUSTMENT		CENTS/KWH CENTS/KWH
02/01/14 - 02/28/14 03/01/14 - 03/31/14	PURCHASED POWER ADJUSTMENT PURCHASED POWER ADJUSTMENT		CENTS/KWH
04/01/14 - 04/30/14	PURCHASED POWER ADJUSTMENT		CENTS/KWH
04/01/14 - 04/30/14	SOLARSAVER ADJUSTMENT		CENTS/KWH
05/01/14 - 03/31/15	SOLARSAVER ADJUSTMENT		CENTS/KWH
05/01/14 - 06/30/14	PURCHASED POWER ADJUSTMENT	0.1957	CENTS/KWH
06/01/14 - 05/31/15	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT		CENTS/KWH
07/01/14 - 07/31/14	PURCHASED POWER ADJUSTMENT		CENTS/KWH
07/01/14 - 11/30/14 08/01/14 - 08/31/14	RESID. PBF SURCHARGE ADJUSTMENT PURCHASED POWER ADJUSTMENT		CENTS/KWH CENTS/KWH
09/01/14 - 09/30/14	PURCHASED POWER ADJUSTMENT		CENTS/KWH
10/01/14 - 10/31/14	PURCHASED POWER ADJUSTMENT		CENTS/KWH
11/01/14 - 11/30/14	PURCHASED POWER ADJUSTMENT		CENTS/KWH
12/01/14 - 12/31/14	PURCHASED POWER ADJUSTMENT	0.1108	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		DOLLARS/MONTH
01/01/15 - 01/31/15	PURCHASED POWER ADJUSTMENT		CENTS/KWH
02/01/15 - 02/28/15 03/01/15 - 03/31/15	PURCHASED POWER ADJUSTMENT PURCHASED POWER ADJUSTMENT		CENTS/KWH CENTS/KWH
04/01/15 - 04/30/15	PURCHASED POWER ADJUSTMENT PURCHASED POWER ADJUSTMENT		CENTS/KWH
04/01/15 - 04/30/15	SOLARSAVER ADJUSTMENT		CENTS/KWH
05/01/15 - 05/31/15	PURCHASED POWER ADJUSTMENT		CENTS/KWH
05/01/15	SOLARSAVER ADJUSTMENT		CENTS/KWH
06/01/15 - 06/30/15	PURCHASED POWER ADJUSTMENT		CENTS/KWH
06/01/15 - 06/07/15	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT		CENTS/KWH
06/08/15	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT		CENTS/KWH
07/01/15 - 07/31/15 <b>07/01/15</b>	PURCHASED POWER ADJUSTMENT		CENTS/KWH CENTS/KWH
07/01/15	RESID. PBF SURCHARGE ADJUSTMENT GREEN INFRASTRUCTURE FEE		DOLLARS/MONTH
08/01/15	PURCHASED POWER ADJUSTMENT		CENTS/KWH

## Maui Electric Company, Ltd. - Maui Division Residential Bill at 600 kWh/Month Consumption

