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PUBLIC UTILITIES

COMMISSION

SHARON M. SUZUKI President October 27, 2017

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

Dear Commissioners:

Subject: Maui Electric Energy Cost Adjustment Factor for November 2017

Maui Electric Company, Limited's ("Maui Electric" or "Company") November 2017 Energy Cost Adjustment factor for our Maui Division is -5.305 cents per kilowatt-hour ("kWh"), an increase of 2.086 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$158.18, an increase of \$10.54 compared to rates effective October 1, 2017. The increase in the typical residential bill is due to the increase in the Energy Cost Adjustment factor (+\$10.43) and the increase in the Purchased Power Adjustment Clause rate (+\$0.11).

The Company's Maui Division fuel composite cost of generation, central station and other increased 208.68 cents per million BTU to 1,423.82 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy decreased 0.579 cents per kWh to 17.471 cents per kWh.

The Energy Cost Adjustment factor for our Lāna'i Division for November 2017 is -8.264 cents per kWh, an increase of 1.795 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$153.90, an increase of \$7.18 compared to rates effective October 1, 2017. The increase in the typical residential bill is due to the increase in the Energy Cost Adjustment factor.

The Company's Lāna'i Division fuel composite cost of generation, central station and other increased 218.45 cents per million BTU to 1,963.38 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 November 2017 is -4.912 cents per kWh, an increase of 4.181 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$153.07, an increase of \$16.72 compared to rates effective October 1, 2017. The increase in the typical residential bill is due to the increase in the Energy Cost Adjustment factor.

The Honorable Chair and Members of the Hawai'i Public Utilities Commission October 27, 2017 Page 2

The Company's Moloka'i Division fuel composite cost of generation, central station and other increased 347.32 cents per million BTU to 1,745.94 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 November 1, 2017.

Sincerely,

Sharon M. Suzuki

President

Attachments

cc: Division of Consumer Advocacy

ENERGY COST ADJUSTMENT FACTOR

	EFFECTIVE DATES		
	<u>10/01/2017</u>	<u>11/01/2017</u>	<u>Change</u>
COMPOSITE COSTS Generation, Central Station & Other, ¢/mbtu	1,215.14	1,423.82	208.68
DG Energy, ¢/kWh	0.00	0.00	0.000
Purchased Energy, ¢/kWh	18.050	17.471	(0.579)
r dichased Energy, ¢/kwii	10.000	17.471	(0.575)
Residential Schedule "R"			
Energy Cost Adjustment, ¢/kWh	(7.391)	(5.305)	2.086
Others - "G,H,P,F"			
Energy Cost Adjustment, ¢/kWh	(7.391)	(5.305)	2.086
Residential Customer with			
500 KWH Consumption, \$/Bill	147.64	158.18	10.54
600 KWH Consumption, \$/Bill	176.80	189.46	12.66

Supersedes Sheet Effective: October 1, 2017

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

ENERGY COST ADJUSTMENT (ECA) FILING - November 1, 2017 (page 1 of 2)

Line
1 Effective Date
2 Supercedes Factors of November 1, 2017 October 1, 2017

GENERATION COMPONENT

		CENTRAL	. STATION			
	FUEL PRICES					
3	Industrial			871.43		
4	Diesel			1,637.36		
5	Other					
	BTU MIX, %				DG ENERGY COMPONENT	
6	Industrial			27.88%	23 COMPOSITE COST OF DG	
7	Diesel			72.12%	ENERGY, ¢/kWh	0.000
8	Other			0.00%	24 % Input to System kWh Mix	0.00%
				100.00%		
					25 WEIGHTED COMPOSITE DG ENERGY COST,	
9		COST OF GENER	,		¢/kWh (Lines 23 x 24)	-
		ATION + OTHER	•	1,423.82		
		+ (4 x 7) + (5 x 8)))			
10	% Input to Syst	em kWh Mix		72.75%		0.000
					27 Base % Input to System kWh Mix	0.01
		ACTOR, mmbtu/l			28 WEIGHTED BASE DG ENERGY COST,	
	(A)	(B)	(C)	(D)	¢/kWh (Line 26 x 27)	0.00000
			Percent of			
		Eff Factor	Centrl Stn +	Weighted	29 Cost Less Base (Line 25 - 28)	0.00000
	Fuel Type	mmbtu/kwh	<u>Other</u>	Eff Factor	30 Loss Factor	1.063
11	Industrial	0.015126	19.65	0.002972	31 Revenue Tax Req Multiplier	1.0975
12		0.010026	80.35	0.008056	32 DG FACTOR,	
13		0.010951	0.00	-	¢/kWh (Line 29 x 30 x 31)	0.00000
	,	2, 13): Col(B) x Co	. , . , ,			
14	•	ency Factor, mmb	otu/KVVn	0.011028		
	[IIIIes II(D) +	12(D) + 13(D)]		0.011026		
15	WEIGHTED CO	OMPOSITE CENT	TRAL STATION +			
13		ERATION COST,				
	(lines (9 x 10 x		P /	11.42312		
	(, ,		20.2		
16	BASE CENTRA	AL STATION + OT	THER GENERATIO	N		
	COST, ¢/mm	btu		2,019.39		
17	Base % Input to			78.09		
18	Efficiency Factor	or, mmbtu/kwh		0.010951		
19	WEIGHTED BA	ASE CENTRAL S	TATION + OTHER			
	GENERATION	N COST ¢/kWh				
	(lines (16 x 1	7 x 18))		17.26909		
					SUMMARY OF	
		ASE (line(15 - 19))	(5.84597)	· ·	
	Revenue Tax F			1.0975	33 CNTRL STN + OTHER (line 22)	(6.41595)
22		ATION + OTHER (34 DG (line 32)	-
	FACTOR, ¢/k	Wh (line (20 x 21)))	(6.41595)	,	
<u> </u>					¢/kWh (lines 33 + 34)	(6.41595)

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

ENERGY COST ADJUSTMENT (ECA) FILING - November 1, 2017 (page 2 of 2)

Line

1 Effective Date November 1, 2017 2 Supercedes Factors of October 1, 2017

Line	PURCHASE	ENERGY COMPONEN	IT
LIIIE	FUNCTIAGE	CINERAL COMPONEN	<u></u>
	PURCHASED ENERGY I	PRICE ¢/kWh	
36			
37			
38			
39			
40	Kaheawa Wind I	- On Peak	13.572
41		- Off Peak	12.749
42	Kaheawa Wind II		19.245
43	Sempra Wind		21.546
44	Hydro & Other	- On Peak	15.047
45		- Off Peak	14.154
46	FIT		20.397
	PURCHASED ENERGY I	KWH MIX, %	
47			
48			
49			
50			
	Kaheawa Wind I	- On Peak	22.82%
52	Mahaassa MCad II	- Off Peak	17.22%
	Kaheawa Wind II	- On Peak	30.10%
	Sempra Wind	- On Peak	27.31%
55 56	Hydro & Other	On PeakOff Peak	0.19%
	FIT	- Oli Peak	0.14% 2.22%
37	ГП		100.00%
			100.0070
58	COMPOSITE COST OF F	PURCHASED	
	ENERGY, ¢/kWh		17.471
		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)		
59	% Input to System kWh M	1ix	27.25%
60	WEIGHTED COMPOSITE	PURCHASED ENERGY	
	COST, ¢/kWh (lines (58	x 59))	4.76085
61	BASE PURCHASED EN		
			15.847
	Base % Input to Sys kWh		21.90
63	WEIGHTED BASE PURC		
	COST, ¢/kWh (lines (61	x 62))	3.47049
64	COST LESS BASE (lines	(60 - 63))	1.29036
	, , , , , , , , , , , , , , , , , , , ,		1.063
	Revenue Tax Reg Multipli	ier	1.0975
	·		1.50539
"	(lines (64 x 65 x 66))	, , y/107711	1.00000
<u> </u>	(

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

68 GENERATION AND PURCHASED ENERGY	
FACTOR, ¢/kWh	(4.91056)
(lines (35 + 67))	
69 ADJUSTMENT, ¢/kWH	
70 ECA Reconciliation Adjustment	(0.394)
71 ECA FACTOR, ¢/kWh	
(lines (68 + 69 + 70))	(5.305)

Fuel Oil Inventory Prices for November 2017

TYPE OF OIL BURNED	PRICES \$/BBL	CONVERSION FACTORS	PRICES ¢/MBTU
INDUSTRIAL	54.8998	6.30 MBTU/BBL	871.43
DIESEL/ULSD	95.8817	5.86 MBTU/BBL	1,637.36

Maui Electric Company, Ltd. Maui Division

Month End Fuel Oil Estimate

<u>Kahului</u>	Barrels	MBTU	(\$)
10/20/2017 Estimated Use Estimated Received Estimated Additional	30,440.14 11,164.21 6,000.00 6,661.52	191,184.84 70,227.39 37,800.00 41,967.55	1,628,838.80 556,379.28 331,538.87 349,360.09
Estimated End	31,937.45	200,725.00	1,753,358.48
Next month's expe	nse (\$/bbl) =	\$ 54.8998	
<u>Maalaea</u>	Barrels	MBTU	(\$)

Barrels	MBTU	(\$)
94,656.01	554,294.20	8,785,922.98
30,954.60	181,266.44	2,464,460.14
6,500.00	38,063.22	588,187.02
21,270.56	124,645.51	1,860,833.67
91,471.96	535,736.49	8,770,483.53
	94,656.01 30,954.60 6,500.00 21,270.56	94,656.01 554,294.20 30,954.60 181,266.44 6,500.00 38,063.22 21,270.56 124,645.51

Next month's expense (\$/bbl) = \$ 95.8817

Contract Prices effective October 1, 2017

TYPE OF OIL BURNED	\$/BBL	¢/MBTU
INDUSTRIAL		
	0.0505	=0.00
Tax *	3.3535	53.23
Ocean Transportation	1.6828	26.11
Land Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.3400	4.60
DIESEL		
Tax *	5.4052	92.24
Ocean Transportation	1.6828	28.07
Land Transportation	0.8817	15.05
Storage	3.0781	52.53
Wharfage	0.3400	4.95

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.

^{*} Tax includes HGET, Hawaii Use Tax, Liquid Fuel Tax, LUST tax, Environmental Response Tax, Customs Duty Fee, and Fed Oil Spill Recovery Fee

PURCHASED POWER PRICE CALCULATIONS

KAHEAWA WIND POWER ENERGY RATE:

Kaheawa Wind - On Peak, ¢/kWh 13.572 - Off Peak, ¢/kWh 12.749

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 2017:

On-peak, 9.960 Off-peak, ¢/kwh 8.784

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

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

On-Peak Rate = $9.960 \times 0.7 + 22.000 \times 0.3 = 13.572$ Off-Peak Rate = $8.784 \text{ } \text{¢/kwh} \times 0.7 + 22.000 \text{ } \text{¢/kwh} \times 0.3 = 12.7488 \text{ } \text{¢/kwh}$

MAUI ELECTRIC COMPANY, LTD. Maui Division ECA Reconciliation Adjustment November 2017

1. Amount to be Refunded	(\$969,500)
2. Monthly amount (1 / 3 X Line 1)	(\$323,167)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$354,680)
5. Estimated Sales (November 2017)	90,006 mwh
6. Adjustment (Line 4 ÷ Line 5)	(0.394) ¢/kwh

MAUI ELECTRIC COMPANY, LTD. MAUI DIVISION 2017 FUEL OIL ADJUSTMENT RECONCILIATION SUMMARY (Thousand \$)

No Deadband 3rd Quarter VTD Total VT		(Thous	sand \$)			
ACTUAL COSTS:					Basis for Recon	
Line YTD Total company YTD Total company ACTUAL COSTS: 375,289.0 \$75,289.0 \$18.2 \$111.591.6 \$111			W/O Deadband	collection	With Deadband	collection
NOTICE N			3rd Quarter	by	3rd Quarter	by
ACTUAL COSTS: Generation \$75,289.0 \$75,289.0 Distributed Generation \$18.2 \$18.2 Purch Power \$36,284.4 \$36,284.4 TOTAL \$111,591.6 \$111,591.6 FUEL FILING COST Generation \$75,352.2 \$74,945.8 Distributed Generation \$75,352.2 \$74,945.8 Distributed Generation \$0.0 \$0.0 Distributed Generation \$111,636.6 \$111,230.2 BASE FUEL COST Generation \$125,093.2 \$125,093.2 Distributed Generation \$125,093.2 \$125,093.2 Distributed Generation \$125,093.2 \$125,093.2 Distributed Generation \$125,093.2 \$125,093.2 Distributed Generation \$125,093.2 \$125,093.2 TOTAL \$163,072.2 \$163,072.2 ACTUAL FOA LESS TAX \$-\$51,720.9 \$51,720.9 FOA reconciliation adj for prior year \$-\$1,408.1 \$-\$1,408.1 ADJUSTED FOA LESS TAX \$-\$50,312.8 \$50,312.8 TOTAL \$1,334.4 \$1,334.4 \$1,334.4 Other prior year FOA accrual reversal \$1,334.4 \$1,334.4 Other prior year FOA \$0.0 \$0.0 Other \$0.0 \$0.0 S0.0 TOTAL \$1,334.2 Over \$2,863.7 Over	Line		YTD Total	•	YTD Total	•
Generation \$75,289.0 \$75,289.0			<u></u>	,		<u></u>
Generation \$75,289.0 \$75,289.0		ACTUAL COSTS:				
Distributed Generation \$18.2 \$18.2 Purch Power \$36,284.4 \$36,284.4 TOTAL \$111,591.6 \$111,591.6 FUEL FILING COST \$75,352.2 \$74,945.8 Distributed Generation \$0.0 \$0.0 Purch Power \$36,284.4 \$36,284.4 TOTAL \$111,636.6 \$111,230.2 BASE FUEL COST \$125,093.2 \$125,093.2 Distributed Generation \$125,093.2 \$125,093.2 Distributed Generation \$17.5 \$17.5 Purch Power \$37,961.6 \$37,961.6 Distributed Generation \$17.5 \$17.5 Purch Power \$37,961.6 \$37,961.6 TOTAL \$163,072.2 \$163,072.2 TOTAL \$163,072.2 \$1	1		\$75,280,0		\$75 280 N	
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FUEL FILING COST Generation Distributed Generation FUEL FORM Purch Power Signature TOTAL BASE FUEL COST Generation Signature BASE FUEL COST Generation Signature Sig	3	Fulcti Fower	φ30,204.4		φ30,204.4	
FUEL FILING COST Generation Distributed Generation FUEL FORM Purch Power Signature TOTAL BASE FUEL COST Generation Signature BASE FUEL COST Generation Signature Sig	4	TOTAL	\$111 591 6		\$111 591 6	
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BASE FUEL COST 9	8	TOTAL	\$111.636.6		\$111.230.2	
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Distributed Generation	9		\$125,093.2		\$125,093.2	
11 Purch Power \$37,961.6 \$37,961.6 12 TOTAL \$163,072.2 \$163,072.2 13 FUEL-BASE COST (Line 8-12) -\$51,435.6 -\$51,842.1 14 ACTUAL FOA LESS TAX -\$51,720.9 -\$51,720.9 15 FOA reconciliation adj for prior year -\$1,408.1 -\$1,408.1 16 ADJUSTED FOA LESS TAX -\$50,312.8 -\$50,312.8 17 FOA-(FUEL-BASE) (Line 16-13) \$1,122.8 Over \$1,529.3 Over ADJUSTMENTS Surrent year FOA accrual reversal \$1,334.4 \$1,334.4 19 Other prior year FOA \$0.0 \$0.0 20 Other \$0.0 \$0.0 21 3rd QUARTER FOA RECONCILIATION (Lines 17+18+19+20) \$2,457.2 Over \$2,863.7 Over 22 2nd QUARTERLY YTD 2017 FOA Reconciliation Recognized in FOA Rates \$1,894.2 Over						
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13 FUEL-BASE COST (Line 8-12) -\$51,435.6 -\$51,842.1 14 ACTUAL FOA LESS TAX -\$51,720.9 -\$51,720.9 15 FOA reconciliation adj for prior year -\$1,408.1 -\$1,408.1 16 ADJUSTED FOA LESS TAX -\$50,312.8 -\$50,312.8 17 FOA-(FUEL-BASE) (Line 16-13) \$1,122.8 Over \$1,529.3 Over ADJUSTMENTS 18 Current year FOA accrual reversal \$1,334.4 \$1,334.4 19 Other prior year FOA \$0.0 \$0.0 20 Other \$0.0 \$0.0 21 3rd QUARTER FOA RECONCILIATION (Lines 17+18+19+20) \$2,457.2 Over \$2,863.7 Over 22 2nd QUARTERLY YTD 2017 FOA Reconciliation Recognized in FOA Rates \$1,894.2 Over	12	TOTAL	\$163,072,2		\$163,072,2	
14 ACTUAL FOA LESS TAX -\$51,720.9 -\$51,720.9 15 FOA reconciliation adj for prior year -\$1,408.1 -\$1,408.1 16 ADJUSTED FOA LESS TAX -\$50,312.8 -\$50,312.8 17 FOA-(FUEL-BASE) (Line 16-13) \$1,122.8 Over \$1,529.3 Over ADJUSTMENTS Support of the prior year FOA accrual reversal \$1,334.4 \$1,334.4 19 Other prior year FOA \$0.0 \$0.0 20 Other \$0.0 \$0.0 21 3rd QUARTER FOA RECONCILIATION (Lines 17+18+19+20) \$2,457.2 Over \$2,863.7 Over 22 2nd QUARTERLY YTD 2017 FOA Reconciliation Recognized in FOA Rates \$1,894.2 Over	12	TOTAL	Ψ100,012.2		Ψ100,012.2	
14 ACTUAL FOA LESS TAX -\$51,720.9 -\$51,720.9 15 FOA reconciliation adj for prior year -\$1,408.1 -\$1,408.1 16 ADJUSTED FOA LESS TAX -\$50,312.8 -\$50,312.8 17 FOA-(FUEL-BASE) (Line 16-13) \$1,122.8 Over \$1,529.3 Over ADJUSTMENTS Support of the prior year FOA accrual reversal \$1,334.4 \$1,334.4 19 Other prior year FOA \$0.0 \$0.0 20 Other \$0.0 \$0.0 21 3rd QUARTER FOA RECONCILIATION (Lines 17+18+19+20) \$2,457.2 Over \$2,863.7 Over 22 2nd QUARTERLY YTD 2017 FOA Reconciliation Recognized in FOA Rates \$1,894.2 Over	13	FUEL-BASE COST (Line 8-12)	-\$51.435.6		-\$51.842.1	
15 FOA reconciliation adj for prior year -\$1,408.1 -\$1,408.1 16 ADJUSTED FOA LESS TAX -\$50,312.8 -\$50,312.8 17 FOA-(FUEL-BASE) (Line 16-13) \$1,122.8 Over \$1,529.3 Over ADJUSTMENTS Surrent year FOA accrual reversal \$1,334.4 \$1,334.4 19 Other prior year FOA \$0.0 \$0.0 20 Other \$0.0 \$0.0 21 3rd QUARTER FOA RECONCILIATION (Lines 17+18+19+20) \$2,457.2 Over \$2,863.7 Over 22 2nd QUARTERLY YTD 2017 FOA Reconciliation Recognized in FOA Rates \$1,894.2 Over			ψο , , , , , , , , , , , , , , , , , , ,		ψο ., ο .Ξ	
15 FOA reconciliation adj for prior year -\$1,408.1 -\$1,408.1 16 ADJUSTED FOA LESS TAX -\$50,312.8 -\$50,312.8 17 FOA-(FUEL-BASE) (Line 16-13) \$1,122.8 Over \$1,529.3 Over ADJUSTMENTS Surrent year FOA accrual reversal \$1,334.4 \$1,334.4 19 Other prior year FOA \$0.0 \$0.0 20 Other \$0.0 \$0.0 21 3rd QUARTER FOA RECONCILIATION (Lines 17+18+19+20) \$2,457.2 Over \$2,863.7 Over 22 2nd QUARTERLY YTD 2017 FOA Reconciliation Recognized in FOA Rates \$1,894.2 Over	14	ACTUAL FOA LESS TAX	-\$51.720.9		-\$51.720.9	
16 ADJUSTED FOA LESS TAX -\$50,312.8 17 FOA-(FUEL-BASE) (Line 16-13) \$1,122.8 Over ADJUSTMENTS 18 Current year FOA accrual reversal 9 Other prior year FOA Other 20 Other 21 3rd QUARTER FOA RECONCILIATION (Lines 17+18+19+20) 22 2nd QUARTERLY YTD 2017 FOA Reconciliation Recognized in FOA Rates -\$50,312.8 -\$50,312.8 -\$50,312.8 \$1,529.3 Over \$1,334.4 \$1,334.4 \$1,334.4 \$10.0 \$0.0						
17 FOA-(FUEL-BASE) (Line 16-13) \$1,122.8 Over \$1,529.3 Over ADJUSTMENTS \$1,334.4 \$1,334.4 18 Current year FOA accrual reversal \$1,334.4 \$1,334.4 19 Other prior year FOA \$0.0 \$0.0 20 Other \$0.0 \$0.0 21 3rd QUARTER FOA RECONCILIATION (Lines 17+18+19+20) \$2,457.2 Over \$2,863.7 Over 22 2nd QUARTERLY YTD 2017 FOA Reconciliation Recognized in FOA Rates \$1,894.2 Over		1 Or troconomication adjitor prior your	Ψ1,100.1		Ψ1,100.1	
17 FOA-(FUEL-BASE) (Line 16-13) \$1,122.8 Over \$1,529.3 Over ADJUSTMENTS \$1,334.4 \$1,334.4 18 Current year FOA accrual reversal \$1,334.4 \$1,334.4 19 Other prior year FOA \$0.0 \$0.0 20 Other \$0.0 \$0.0 21 3rd QUARTER FOA RECONCILIATION (Lines 17+18+19+20) \$2,457.2 Over \$2,863.7 Over 22 2nd QUARTERLY YTD 2017 FOA Reconciliation Recognized in FOA Rates \$1,894.2 Over	16	ADJUSTED FOA LESS TAX	-\$50.312.8		-\$50.312.8	
ADJUSTMENTS 18			400,012.0		φοσ,σ.2.σ	
ADJUSTMENTS 18	17	FOA-(FUEL-BASE) (Line 16-13)	\$1,122.8	Over	\$1.529.3	Over
18 Current year FOA accrual reversal \$1,334.4 \$1,334.4 19 Other prior year FOA \$0.0 \$0.0 20 Other \$0.0 \$0.0 21 3rd QUARTER FOA RECONCILIATION (Lines 17+18+19+20) \$2,457.2 Over \$2,863.7 Over 22 2nd QUARTERLY YTD 2017 FOA Reconciliation Recognized in FOA Rates \$1,894.2 Over		- (/ (/	* , -		, ,	
18 Current year FOA accrual reversal \$1,334.4 \$1,334.4 19 Other prior year FOA \$0.0 \$0.0 20 Other \$0.0 \$0.0 21 3rd QUARTER FOA RECONCILIATION (Lines 17+18+19+20) \$2,457.2 Over \$2,863.7 Over 22 2nd QUARTERLY YTD 2017 FOA Reconciliation Recognized in FOA Rates \$1,894.2 Over		ADJUSTMENTS				
19 Other prior year FOA \$0.0 \$0.0 20 Other \$0.0 \$0.0 21 3rd QUARTER FOA RECONCILIATION (Lines 17+18+19+20) \$2,457.2 Over \$2,863.7 Over 22 2nd QUARTERLY YTD 2017 FOA Reconciliation Recognized in FOA Rates \$1,894.2 Over	18		\$1.334.4		\$1,334.4	
20 Other \$0.0 \$0.0 21 3rd QUARTER FOA RECONCILIATION (Lines 17+18+19+20) \$2,457.2 Over \$2,863.7 Over 22 2nd QUARTERLY YTD 2017 FOA Reconciliation Recognized in FOA Rates \$1,894.2 Over						
21 3rd QUARTER FOA RECONCILIATION (Lines 17+18+19+20) \$2,457.2 Over \$2,863.7 Over 22 2nd QUARTERLY YTD 2017 FOA Reconciliation Recognized in FOA Rates \$1,894.2 Over						
22 2nd QUARTERLY YTD 2017 FOA Reconciliation Recognized in FOA Rates \$1,894.2 Over	20	Guici	Ψ0.0		Ψ0.0	
22 2nd QUARTERLY YTD 2017 FOA Reconciliation Recognized in FOA Rates \$1,894.2 Over	21	3rd OLIARTER FOA RECONCILIATION (Lines 17+18+19+20)	\$2 457 2	Over	\$2 863 7	Over
<u> </u>		J. S.	Ψ2, 107.2		Ψ2,000.7	J. 51
<u> </u>	22	2nd QUARTERLY YTD 2017 FOA Reconciliation Recognized in F	FOA Rates		\$1.894.2	Over
23 FOA Reconciliation to be Refunded November 2017 to January 2018 (Line 22- 21)					ψ.,551.2	= . 2.
23 FOA Reconciliation to be Refunded November 2017 to January 2018 (Line 22- 21) -\$969.5 To Be Refunded	-00	50AB	2040 (11 20 61)		0000	T. D. D. () .
	23	FUA Reconciliation to be Refunded November 2017 to January 2	2018 (Line 22- 21)		-\$969.5	To Be Refunded

^{*} 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, 2017 through September 30, 2017

	Notes	Jan 1 - Sep 30
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 Cil Destine of Described Color MANA/h		400.000
Industrial Fuel Oil Portion of Recorded Sales, MWh	a	108,930
Industrial Fuel Oil Consumption (Recorded), MMBTU	b	1,703,497
Industrial Fuel Oil Efficiency Factor (Recorded), BTU/kWh	c = (b/a)*1000	15,638
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
riigilor iiriik or iriddokrar i dor o'ii boadbarid, b'i o/kvvii	g = 11 d	10,220
Industrial Fuel Oil Efficiency Factor for cost-recovery, BTU/kWl	n h = c, e, or g	15,226
<u>Diesel</u>		
Diesel Efficiency Factor (TY2012), BTU/kWh	f	10,026
Diesel Deadband Definition, +/- BTU/kWh	d	100
Diesel Portion of Recorded Sales, MWh	а	487,940
		4,854,015
Diesel Consumption (Recorded), MMBTU	b	
Diesel Efficiency Factor (Recorded), BTU/kWh	c = (b/a)*1000	9,948
Lower limit of Diesel Deadband, BTU/kWh	e = f-d	9,926
Higher limit of Diesel Deadband, BTU/kWh	g = f+d	10,126
g	9	10,120
Diesel Efficiency Factor for cost-recovery, BTU/kWh	h = c, e, or g	9,948

GENERATION FUEL FILING COST AND GENERATION BASE FUEL COST, WITHOUT and WITH DEADBAND 2017

	Without Deadband	With Deadband - AS FILED
	<u>Jan 1 - Sep 30</u>	<u>Jan 1 - Sep 30</u>
INDUSTRIAL		
Industrial Portion of Recorded Sales , MWH	108,930	108,930
Industrial Sales Efficiency Factor (mmbtu/kwh)	0.015126	0.015226
Mmbtu adjusted for Sales Efficiency Factor	1,647,674	1,658,567
\$/mmbtu	<u>\$7.5820</u>	\$7.5820
TOTAL Industrial \$000s TO BE RECOVERED	\$12,492.7	\$12,575.3
DIEGEL ELIEL EILING GOGT		
DIESEL FUEL FILING COST Diesel Portion of Pagerded Soles, MWILL	497.040	497.040
Diesel Portion of Recorded Sales, MWH	487,940	487,940
Diesel Sales Efficiency Factor (mmbtu/kwh)	0.010026	0.009948
Mmbtu adjusted for Sales Efficiency Factor	4,892,091	4,854,032
\$/mmbtu	<u>\$12.8492</u>	<u>\$12.8492</u>
TOTAL DIESEL \$000s TO BE RECOVERED	\$62,859.6	\$62,370.5
TOTAL GENERATION FUEL FILING COST, \$000s	\$75,352.2	\$74,945.8
TOTAL GENERATION BASE FUEL COST , \$000s YTD	\$125,093.2	\$125,093.2
TOTAL GENERATION FUEL FILING COST, \$000s YTD	\$75,352.2	\$74,945.8
TOTAL GENERATION BASE FUEL COST, \$000s YTD	\$125,093.2	\$125,093.2

MAUI ELECTRIC COMPANY, LTD. **MAUI DIVISION** 2017 Cumulative Reconciliation Balance

<u>Month</u>	(1) YTD FOA Reconciliation	<u>Qtr</u>	(2) FOA Rec Adjust <u>Variance</u>	(3) FOA Rec Less <u>Variance</u>	(4) Try to Collect	(5) Actual Collect	(6) Month-end Cumulative <u>Balance</u>
December '16 January '17 February	1,068,200	(4)	19,017	1,049,183	(340,033) (340,033) (356,067)	(338,730) (313,303) (333,496)	359,058 45,755 761,442
March April					(356,067) (356,067)	(353,056) (362,325)	408,386 46,061
May June July	214,700	(1)	52,312	162,388	(71,567) (71,567) (71,567)	(71,347) (72,876) (74,042)	137,102 64,226 (9,816)
August September	1,679,500	(2)	(7,347)	1,686,847	(559,833) (559,833)	(569,839) (567,239)	1,107,192 539,953
October November	969,500	(3)	(19,887)	989,387	(559,833) (323,167)		
NOTES:							
Col(1):	Quarterly FOA r A positive numb			•	•	undor-collocti	on
Col(2):	FOA reconciliati	on adju	stment variance	e accumulated	d during the la	st three mont	ths,

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. 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 PBF Surcharge Renewable Energy Infrastructure Cost Recovery Provision SolarSaver Adjustment
Purchased Power Adjustment Energy Cost Adjustment Green Infrastructure Fee
Avg Residential Bill at 500 kwh

	Rate	
	10/01/17	11/01/17
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	1.5654	1.5654
¢/kWh	0.4244	0.4244
φπιντι		
¢/kWh	0.0000	0.0000
¢/kWh	0.0000	0.0000
¢/kWh	-0.0275	-0.0058
¢/kWh	-7.391	-5.305
\$	1.18	1.18

	Charge (\$) at 500 Kwh				
10/01/17	11/01/17	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			
7.83	7.83	0.00			
2.12	2.12	0.00			
0.00	0.00	0.00			
0.00	0.00	0.00			
-0.14	-0.03	0.11			
-36.95	-26.52	10.43			
1.18	1.18	0.00			
147.64	158.18				

147.64 176.8

Increase (Decrease -) % Change

10.54 7.14%

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 PBF Surcharge Renewable Energy Infrastructure Cost Recovery Provision SolarSaver Adjustment
Purchased Power Adjustment Energy Cost Adjustment Green Infrastructure Fee
Avg Residential Bill at 600 kwh

	Rate	
	10/01/17	11/01/17
effective date:	08/01/13	08/01/13
¢/kWh	23.0016	23.0016
4/IAA/Ib	9.3393	9.3393
¢/kWh		
¢/kWh	11.5993	11.5993
\$	8.50	8.50
¢/kWh	1.5654	1.5654
¢/kWh	0.4244	0.4244
¢/kWh	0.0000	0.0000
¢/kWh	0.0000	0.0000
ψ/KVVII	0.0000	0.0000
¢/kWh	-0.0275	-0.0058
¢/kWh	-7.391	-5.305
\$	1.18	1.18

ĺ	Charge (\$) at 600 Kwh				
	10/01/17	11/01/17	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		
	9.39	9.39	0.00		
	2.55	2.55	0.00		
	0.00	0.00	0.00		
	0.00	0.00	0.00		
	-0.17	-0.03	0.14		
	-44.35	-31.83	12.52		
	1.18	1.18	0.00		
	470.00	400.40			
	176.80	189.46			

Increase (Decrease -) % Change

12.66 7.16%

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

FUEL FACTOR
CENTS / KWH

	RESIDENTIAL &	DECIDENT	IAL DILL (¢)
EFFECTIVE DATE	COMMERCIAL		IAL BILL (\$) <u>@ 600 KWH</u>
LITEOTIVE DATE	OOMMEROIAE	<u>© 500 IXWII</u>	<u>© 000 I(WII)</u>
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
June 8, 2015	-4.794	163.43	195.74
July 1, 2015	-4.336	164.44	196.93
August 1, 2015	-4.415	164.11	196.54
September 1, 2015	-5.820	157.12	188.14
October 1, 2015	-7.471	148.88	178.26
November 1, 2015	-8.651	141.57	169.49
December 1, 2015	-8.557	142.07	170.10
January 1, 2016	-8.649	141.54	169.48
February 1, 2016	-10.511	132.58	158.73
March 1, 2016	-9.196	139.17	166.62
April 1, 2016	-8.768	140.37	168.08
May 1, 2016	-10.483	132.89	159.10
June 1, 2016	-8.170	143.47	171.79
July 1, 2016	-7.334		177.36
August 1, 2016	-6.973		179.52
September 1, 2016	-7.866		174.16
October 1, 2016	-8.162	143.94	172.39
November 1, 2016	-9.782	135.84	162.67
December 1, 2016	-9.069	139.41	166.95
January 1, 2017	-7.659	146.59	175.55
February 1, 2017	-8.247	143.65	172.02
March 1, 2017	-7.314	148.32	177.61
April 1, 2017	-5.770	155.35	186.05
May 1, 2017	-7.998	144.79	173.38
June 1, 2017	-5.191	159.61	191.16
July 1, 2017	-5.635	157.32	188.42
August 1, 2017	-7.867	145.30	174.01
September 1, 2017	-9.278	138.19	165.47
October 1, 2017	-7.391	147.64	176.80
November 1, 2017	-5.305	158.18	189.46

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

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE		RATE
06/01/11	IRP RECOVERY REFUND	0.000	PERCENT ON BASE
08/01/13	FINAL RATE INCREASE (1.25%), DOCKET NO. 2011-0092		
01/01/15 - 01/31/15	PURCHASED POWER ADJUSTMENT		CENTS/KWH
02/01/15 - 02/28/15	PURCHASED POWER ADJUSTMENT	-	CENTS/KWH
03/01/15 - 03/31/15	PURCHASED POWER ADJUSTMENT		CENTS/KWH
04/01/15 - 04/30/15	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 - 03/31/16	SOLARSAVER ADJUSTMENT	0.0000	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 - 05/31/16	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.5987	CENTS/KWH
07/01/15 - 07/31/15	PURCHASED POWER ADJUSTMENT		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
08/01/15 - 08/31/15	PURCHASED POWER ADJUSTMENT	0.1613	CENTS/KWH
08/17/15 - 02/29/16	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0103	CENTS/KWH
09/01/15 - 09/30/15	PURCHASED POWER ADJUSTMENT	0 1573	CENTS/KWH
10/01/15 - 10/31/15	PURCHASED POWER ADJUSTMENT		CENTS/KWH
11/01/15 - 11/30/15	PURCHASED POWER ADJUSTMENT		CENTS/KWH
12/01/15 - 12/31/15	PURCHASED POWER ADJUSTMENT		CENTS/KWH
01/01/16 - 01/31/16	PURCHASED POWER ADJUSTMENT		CENTS/KWH
01/01/16 - 06/30/16	GREEN INFRASTRUCTURE FEE		DOLLARS/MONTH
02/01/16 - 02/29/16	PURCHASED POWER ADJUSTMENT		CENTS/KWH
03/01/16 - 03/31/16	PURCHASED POWER ADJUSTMENT		CENTS/KWH
03/01/16 - 02/28/17	RENEWABLE ENERGY INFRASTRUCTURE COST		CENTS/KWH
03/01/10 - 02/26/17	RECOVERY PROVISION	0.0099	CENTS/KWH
04/01/16 - 04/30/16	PURCHASED POWER ADJUSTMENT	-0.0355	CENTS/KWH
04/01/16 - 04/30/16	PURCHASED POWER ADJUSTMENT SOLARSAVER ADJUSTMENT SOLARSAVER ADJUSTMENT PURCHASED POWER ADJUSTMENT PURCHASED POWER ADJUSTMENT REVENUE BALANCING ACCOUNT RATE ADJUSTMENT PURCHASED POWER ADJUSTMENT	-0.1835	CENTS/KWH
05/01/16 - 03/31/17	SOLARSAVER ADJUSTMENT	0.0000	CENTS/KWH
05/01/16 - 05/31/16	PURCHASED POWER ADJUSTMENT	0.0000	CENTS/KWH
06/01/16 - 06/30/16	PURCHASED POWER ADJUSTMENT	-0.0081	CENTS/KWH
06/01/16 - 05/31/17	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.4082	CENTS/KWH
07/01/16 - 04/30/17			CENTS/KWH
07/01/16 - 12/31/16	GREEN INFRASTRUCTURE FEE RESID. PBF SURCHARGE ADJUSTMENT		DOLLARS/MONTH
07/01/16 - 06/30/17	RESID. PBF SURCHARGE ADJUSTMENT		CENTS/KWH
01/01/17 - 06/30/17	GREEN INFRASTRUCTURE FEE		DOLLARS/MONTH
03/01/17	RENEWABLE ENERGY INFRASTRUCTURE COST	0.0098	CENTS/KWH
	RECOVERY PROVISION		
	SOLARSAVER ADJUSTMENT	-0.1378	CENTS/KWH
05/01/17	SOLARSAVER ADJUSTMENT		CENTS/KWH
05/01/17 - 05/31/17	PURCHASED POWER ADJUSTMENT		CENTS/KWH
06/01/17 - 06/30/17	PURCHASED POWER ADJUSTMENT		CENTS/KWH
06/01/17	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT		CENTS/KWH
07/01/17	GREEN INFRASTRUCTURE FEE		DOLLARS/MONTH
07/01/17 - 07/31/17	PURCHASED POWER ADJUSTMENT		CENTS/KWH
07/01/17	RESID. PBF SURCHARGE ADJUSTMENT		CENTS/KWH
08/01/17 - 08/31/17	PURCHASED POWER ADJUSTMENT		CENTS/KWH
09/01/17 - 09/30/17	PURCHASED POWER ADJUSTMENT		CENTS/KWH
10/01/17 - 10/31/17	PURCHASED POWER ADJUSTMENT		CENTS/KWH
11/01/17	PURCHASED POWER ADJUSTMENT	-0.0058	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.

Maui Electric Company, Ltd. - Maui Division Residential Bill at 500 kWh/Month Consumption

