MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION

ENERGY COST ADJUSTMENT FACTOR

	EFFECTIVE DATES		
	<u>02-01-15</u>	<u>03-01-15</u>	<u>Change</u>
<u>COMPOSITE COSTS</u> Generation, Central Station & Other, ¢/mbtu DG Energy, ¢/kWh Purchased Energy, ¢/kWh	1,903.68 0.00 21.80	1,684.42 0.00 21.80	(219.26) 0.00 0.00
Residential Schedule "R"			
Energy Cost Adjustment, ¢/kWh	(3.412)	(6.056)	(2.644)
Others - "G,P,F"			
Energy Cost Adjustment, ¢/kWh	(3.412)	(6.056)	(2.644)
Residential Customer with			
400 KWH Consumption, \$/Bill 500 KWH Consumption, \$/Bill	160.75 200.13	150.18 186.91	(10.57) (13.22)

Supersedes	Sheet Effective:
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February 1, 2015

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

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

Line

1	Effective Date	March 1, 2015
2	Supercedes Factors	February 1, 2015

Supercedes Factors	February 1, 2015

GENERATION COMPONENT

	CENTRAL STATION		1
	FUEL PRICES, ¢/mmbtu		
-	Industrial	0.00	
	Diesel	1,684.42	
5	Other	0.00	
	BTU MIX, %		DG ENERGY COMPONENT
6	Industrial	0.00	23 COMPOSITE COST OF DG
-	Diesel	100.00	ENERGY, ¢/kWh 0.000
-	Other	0.00	24 % Input to System kWh Mix 0.00
-		100.00	
			25 WEIGHTED COMPOSITE DG ENERGY COST,
9	COMPOSITE COST OF GENERATION,		¢/kWh (Lines 23 x 24) 0.00000
	CENTRAL STATION + OTHER ¢/mmbtu	1,684.42	
	(Lines (3 x 6) + (4 x 7) + (5 x 8))		
10	% Input to System kWh Mix	99.78	26 BASE DG ENERGY COMP COST 0.000
			27 Base % Input to System kWh Mix 0.00
	EFFICIENCY FACTOR, mmbtu/kWh		28 WEIGHTED BASE DG ENERGY COST,
	(A) (B) (C)	(D)	¢/kWh (Line 26 x 27) 0.00000
	Percent of		00 Cost Lass Dass (Line 05, 00) 0.00000
	Eff Factor Centrl Stn +	Weighted	29 Cost Less Base (Line 25 - 28) 0.00000
44	<u>Fuel Type</u> <u>mmbtu/kwh</u> <u>Other</u> Industrial 0.000000 0.00	Eff Factor 0.000000	30 Loss Factor 1.095
11 12		0.000000	31 Revenue Tax Req Multiplier 1.0975 32 DG FACTOR.
12	Other 0.011194 0.00	0.0000000	¢/kWh (Line 29 x 30 x 31) 0.00000
10	(Lines 11, 12, 13): $Col(B) \times Col(C) = Col(D)$	0.000000	¢/(W/I (Elite 23 x 30 x 31) 0.00000
14	Weighted Efficiency Factor, mmbtu/kWh		
	[lines 11(D) + 12(D) + 13(D)]	0.011194	
15	WEIGHTED COMPOSITE CENTRAL STATION	+	
	OTHER GENERATION COST, ¢/kWh		
	(lines (9 x 10 x 14))	18.81357	
16	BASE CENTRAL STATION + OTHER		
10	GENERATION COST, ¢/mmbtu	2,144.57	
17	Base % Input to Sys kWh Mix	99.91	
	Efficiency Factor, mmbtu/kwh	0.011194	
	WEIGHTED BASE CENTRAL STATION + OTH		
	GENERATION COST ¢/kWh		
	(lines (16 x 17 x 18))	23.98471	
			SUMMARY OF
	COST LESS BASE (line(15 - 19))	(5.17114)	
	Revenue Tax Req Multiplier	1.0975	33 CNTRL STN + OTHER (line 22) -5.67533
22	CENTRAL STATION + OTHER GENERATION	(E 67500)	34 DG (line 32) 0.00000
	FACTOR, ¢/kWh (line (20 x 21))	(5.67533)	35 TOTAL GENERATION FACTOR, ¢/kWh (lines 33 + 34) -5.67533
			$\psi/(\sqrt{10})$ (1111/25 33 \pm 34) -5.0/533

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

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

Line

1	Effective Date	March 1, 2015
2	Supercedes Factors	February 1, 2015

<u>Line</u>	PURCHASED ENERGY COMPONENT	
36 37	PURCHASED ENERGY PRICE, ¢/kWh FIT	21.800 0.000
38	Sch Q	0.000
39 40	PURCHASED ENERGY KWH MIX, % FIT	100.00 0.00
41	Sch Q	0.000
42	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh (Lines (36 x 39) + (37 x 40) + (38 x 41))	21.800
	% Input to System kWh Mix WEIGHTED COMPOSITE PURCHASED ENERG	0.22
44	COST, ¢/kWh (lines (42 x 43))	0.04836
	BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh Base % Input to Sys kWh Mix WEIGHTED BASE PURCHASED ENERGY	21.800 0.09
47	COST, ¢/kWh (lines (45 x 46))	0.01962
49	COST LESS BASE (lines (44 - 47)) Loss Factor Revenue Tax Req Multiplier PURCHASED ENERGY FACTOR, ¢/kWh	0.02874 1.095 1.0975 0.03454
51	(lines (48 x 49 x 50))	0.03434

<u>Line</u>

SYSTEM COMPOSITE CALCULATIONS

52 GENERATION AND PURCH	GENERATION AND PURCHASED ENERGY			
FACTOR, ¢/kWh	(5.64079)			
(lines (35 + 51))				
53 Adjustment, ¢/kWh	0.000			
54 ECA Reconciliation Adjustme	ent (0.415)			
55 ECA FACTOR, ¢/kWh	(6.056)			
(lines (52 + 53 + 54))				

Maui Electric Company, Ltd. Molokai Division

MONTH END FUEL OIL ESTIMATE

2/19/2015 Estimated Use Estimated Received	Barrels 7,069.353 1,338.600 5,500.00	<u>MBTU</u> 40,507.39 7,670.18 31,515.00	\$ 775,362.82 146,015.96 454,616.89
Estimated Additional Estimated End		64,352.21	1,083,963.75
	Next Months Expense =	\$ 96.5175 /bbl	
March 2015	MBTU Forecast	25,934	

FUEL OIL INVENTORY PRICE USED FOR FILING

Type of Oil Burned	<u>Price</u>		Prices ¢/MBTU
Diesel	\$ 96.5175	5.73 BTU/BBL	1684.42

MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION

Contract Prices effective February 1, 2015

TYPE OF OIL BURNED	\$/BBL	¢/MBTU
ULTRA LOW SULFUR DIESE		
Tax *	1.8900	32.98
Ocean Transportation	1.7776	31.02
Storage	5.0120	87.47
Wharfage	0.2300	4.01

- * 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.

ATTACHMENT 20 SHEET 1 OF 1

MAUI ELECTRIC COMPANY, LTD. Molokai Division ECA Reconciliation Adjustment

March 2015

1.	Amount to be refunded	(\$26,100)	
2.	Monthly amount (1/3 x Line 1)	(\$8,700)	
3.	Revenue Tax Divisor	0.91115	
4.	Total (Line 2 / Line 3)	(\$9,548)	
5.	Estimated Sales (March 2015)	2,299	mwh
6.	Adjustment (Line 4 ÷ Line 5)	-0.415	¢/kwh

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

<u>Month</u>	(1) YTD FOA <u>Reconciliation</u>	<u>Qtr</u>	(2) FOA Rec Adjust <u>Variance</u>	(3) FOA Rec Less <u>Variance</u>	(4) Try to <u>Collect</u>	(5) Actual <u>Collect</u>	(6) Month-end Cumulative <u>Balance</u>
December '14 January '15 February March	26,100	(4)	(105)	26,205	6,300 6,300 (8,700) (8,700)	6,339 5,861	(6,413) (552)
NOTES:							
Col(1):	Quarterly FOA reconciliation amounts. (Refer to Attachment 20)						ation
Col(2):	A positive number is an over-collection. A negative number is an under-collection. 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 s	sales * \$/kwh a	adjustment/1.0	9751)	
Col(6):	Cumulative bala	nce of t	he FOA reco	nciliation (Pre	evious balance	e + Col(3) + (Col(5))

Charge (\$) at 400 Kwh 02-01-15 03-01-15 Difference

105.39

28.57

21.12

163.58

8.50

0.00

6.50

3.03

0.00

105.39

28.57

21.12

163.58

8.50

0.00

6.50

3.03

0.00

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

		Rate			
		02-01-15	03-01-15		
	effective date:	08/01/13	08/01/13		
Base Fuel/Energy Charge	¢/kWh	26.3468	26.3468		
Non-fuel Fuel Energy Charge					
First 250 kWhr per month	¢/kWh	11.4278	11.4278		
Next 500 kWhr per month	¢/kWh	14.0778	14.0778		
Customer Charge	\$	8.50	8.50		
Total Base Charges					
-					
IRP Refund	% on base	0.000	0.000		
Revenue Balancing Rate Adjustment	¢/kWh	1.6239	1.6239		
PBF Adjustment	¢/kWh	0.7583	0.7583		
SolarSaver Adjustment	¢/kWh	0.0000	0.0000		
-					
Energy Cost Adjustment	¢/kWh	-3.412	-6.056		
Green Infrastructure Fee	\$	1.29	1.29		

Avg Residential Bill at 400 kwh

1.29	1.29	0.00	1
-13.65			L
-13 65	-24 22	-10.5	7

Increase (Decrease -) % Change

-10.57 -6.58%

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

	Rate			Char	Charge (\$) at 500 Kwh		
		02-01-15	03-01-15	02-01-15	03-01-15	Difference	
Base Fuel/Energy Charge Non-fuel Fuel Energy Charge	effective date: ¢/kWh	08/01/13 26.3468	08/01/13 26.3468	131.73	131.73	0.00	
First 250 kWhr per month	¢/kWh	11.4278	11.4278	28.57	28.57	0.00	
Next 500 kWhr per month	¢/kWh	14.0778	14.0778	35.19	35.19	0.00	
Customer Charge	\$	8.50	8.50	8.50	8.50	0.00	
Total Base Charges				203.99	203.99	0.00	
IRP Refund	% on base	0.000	0.000	0.00	0.00	0.00	
Revenue Balancing Rate Adjustment	¢/kWh	1.6239	1.6239	8.12	8.12	0.00	
PBF Adjustment	¢/kWh	0.7583	0.7583	3.79	3.79	0.00	
SolarSaver Adjustment	¢/kWh	0.0000	0.0000	0.00	0.00	0.00	
Energy Cost Adjustment	¢/kWh	-3.412	-6.056	-17.06		-13.22 0.00	
	,					-30.28	

Avg Residential Bill at 500 kwh

Increase (Decrease -) -13.22 -6.61% % Change

186.91

200.13

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

EFFECTIVE DATE	FUEL FACTOR CENTS / KWH RESIDENTIAL & <u>COMMERCIAL</u>	RESIDENT <u>@ 400 KWH</u>	IAL BILL (\$) <u>@ 500 KWH</u>
January 1, 2012	8.153	182.75	227.25
February 1, 2012	6.862	177.59	220.79
March 1, 2012	7.181	178.86	222.39
April 1, 2012	7.814	180.44	224.35
May 1, 2012	9.578	188.45	234.37
May 4, 2012	14.363	187.96	234.46
June 1, 2012	14.494	193.74	241.66
July 1, 2012	13.474	189.66	236.56
August 1, 2012	11.811	183.00	228.25
September 1, 2012	9.791	174.92	218.15
October 1, 2012	11.195	180.54	225.17
November 1, 2012	12.697	186.55	232.68
December 1, 2012	13.411	189.40	236.25
January 1, 2013	12.142	184.76	230.45
February 1, 2013	8.830	171.51	213.89
March 1, 2013	13.912	191.84	239.30
April 1, 2013	15.452	197.18	245.97
May 1, 2013	14.226	193.09	240.87
June 1, 2013	13.243	192.39	240.00
July 1, 2013	11.691	186.36	232.47
August 1, 2013	4.036	186.27	232.37
September 1, 2013	4.010	186.17	232.24
October 1, 2013	4.206	186.95	233.22
November 1, 2013	5.770	193.21	241.04
December 1, 2013	4.928	189.84	236.83
January 1, 2014	3.885	185.67	231.62
February 1, 2014	4.590	188.49	235.14
March 1, 2014	4.652	188.74	235.45
April 1, 2014	4.585	187.49	233.89
May 1, 2014	4.690	188.89	235.64
June 1, 2014	4.779	192.52	240.17
July 1, 2014	5.145	194.72	242.92
August 1, 2014	4.697	192.93	240.68
September 1, 2014	-2.835	162.80	203.01
October 1, 2014	1.864	181.60	226.51
November 1, 2014	2.683	184.87	230.61
December 1, 2014	1.266	179.46	223.52
January 1, 2015	-0.141	173.84	216.48
February 1, 2015	-3.412	160.75	200.13
March 1, 2015	-6.056	150.18	186.91

MAUI ELECTRIC COMPANY, LTD. -- Molokai 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 (3.66%), DOCKET NO. 2006-0387 (2007 TEST	YEAR)
01/12/11 - 05/03/12	INTERIM RATE INCREASE 2010 TEST YEAR	2.38	PERCENT ON BASE
02/01/11 - 02/28/11	FINAL RATE INCREASE (3.66%), DOCKET NO. 2006-0387 (INTERIM RATE INCREASE 2010 TEST YEAR IRP RECOVERY REFUND IRP RECOVERY REFUND SOLARSAVER ADJUSTMENT SOLARSAVER ADJUSTMENT IRP RECOVERY REFUND IRP RECOVERY REFUND RESID. PBF SURCHARGE ADJUSTMENT SOLARSAVER ADJUSTMENT SOLARSAVER ADJUSTMENT EINAL RATE INCREASE (1 51%) DOCKET NO. 2009-0163 (-3.472	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	-0.204	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 - 7/31/13	FINAL RATE INCREASE (1.51%), DOCKET NO. 2009-0163 (2010 TEST	YEAR)
6/1/2012- 7/31/13	INTERIM RATE INCREASE 2012 TEST YEAR	4.11	PERCENT ON BASE
01/01/13 - 06/30/13	INTERIM RATE INCREASE (1.51%), DOCKET NO. 2009-0103 (INTERIM RATE INCREASE 2012 TEST YEAR RESID. PBF SURCHARGE ADJUSTMENT SOLARSAVER ADJUSTMENT SOLARSAVER ADJUSTMENT	0.7850	CENTS/KWH
04/01/13 - 04/30/13	SOLARSAVER ADJUSTMENT	-0.205	CENTS/KWH
05/01/13 - 03/31/14	SOLARSAVER ADJUSTMENT	0.000	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 TES	ΓYEAR)
04/01/14 - 04/30/14	SOLARSAVER ADJUSTMENT SOLARSAVER ADJUSTMENT	-0.2453	CENTS/KWH
05/01/14	SOLARSAVER ADJUSTMENT		
06/01/14	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT		
07/01/14 -11/30/14	RESID. PBF SURCHARGE ADJUSTMENT	1.0157	CENTS/KWH
12/01/14	RESID. PBF SURCHARGE ADJUSTMENT RESID. PBF SURCHARGE ADJUSTMENT GREEN INFRASTRUCTURE FEE	0.7583	CENTS/KWH
12/01/14	GREEN INFRASTRUCTURE FEE	1.29	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.