

October 28, 2020

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 Recovery Factor for November 2020

Maui Electric Company, Limited's ("Maui Electric" or "Company") November 2020 Energy Cost Recovery factor for our Maui Division is 13.830 cents per kilowatt-hour ("kWh"), an increase of 0.441 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$150.47, an increase of \$2.73 compared to rates effective October 1, 2020. The increase in the typical residential bill is due to the increase in the Energy Cost Recovery factor (+\$2.20) and increase in the DSM Adjustment (+\$0.54), slightly offset by the decrease in the Purchase Power Adjustment (-\$0.01).

The Company's Maui Division fuel composite cost of generation, central station and other decreased 58.80 cents per million BTU to 939.69 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy decreased 0.187 cents per kWh to 17.880 cents per kWh.

The Energy Cost Recovery factor for our Lāna'i Division for November 2020 is 17.881 cents per kWh, a decrease of 0.195 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$140.91, a decrease of \$0.78 compared to rates effective October 1, 2020. The decrease in the typical residential bill is due to the decrease in the Energy Cost Recovery factor.

The Company's Lāna'i Division fuel composite cost of generation, central station and other decreased 5.79 cents per million BTU to 1,516.48 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 Recovery factor for our Moloka'i Division for November 2020 is 14.096 cents per kWh, an increase of 3.219 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$132.92, an increase of \$11.89 compared to rates effective October 1, 2020. The increase in the typical residential bill is due to the increase in the Energy Cost Recovery factor (+\$12.87) and termination of the Purchase Power Adjustment (-\$0.98).

The Honorable Chair and Members of the Hawai'i Public Utilities Commission October 28, 2020 Page 2

The Company's Moloka'i Division fuel composite cost of generation, central station and other increased 243.82 cents per million BTU to 1,141.88 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy is 22.48 cents per kWh.

To streamline the filing, the Company has excluded the contract prices that were previously included in Attachment 3 Page 3 of 3, Attachment 12 Page 2 of 2, and Attachment 19 Page 2 of 2 from this filing. Those values do not affect the filed Energy Cost Recovery Factors.

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, 2020.

Sincerely,

/s/ Sharon M. Suzuki
Sharon M. Suzuki
President
Maui County and Hawai'i Island Utilities

Attachments

cc: Division of Consumer Advocacy

MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION

ENERGY COST RECOVERY FACTOR

| | EFFECTIVE DATES | | |
|---|-----------------|-----------------|---------------|
| | <u>10-01-20</u> | <u>11-01-20</u> | <u>Change</u> |
| COMPOSITE COSTS | | | |
| Generation, Central Station & Other, ¢/mbtu | 898.06 | 1,141.88 | 243.82 |
| DG Energy, ¢/kWh | 0.00 | 0.00 | 0.00 |
| Purchased Energy, ¢/kWh | 22.48 | 22.48 | 0.00 |
| Residential Schedule "R" | | | |
| Energy Cost Recovery, ¢/kWh | 10.877 | 14.096 | 3.219 |
| | | | |
| Others - "G,P,F" | | | |
| Energy Cost Recovery, ¢/kWh | 10.877 | 14.096 | 3.219 |
| | | | |
| Residential Customer with | | | |
| 400 KWH Consumption, \$/Bill | 121.03 | 132.92 | 11.89 |
| 500 KWH Consumption, \$/Bill | 149.78 | 164.65 | 14.87 |
| | | | |

Supersedes Sheet Effective: October 1, 2020

MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION ENERGY COST RECOVERY (ECR) FILING

ENERGY COST RECOVERY (ECR) FILING - November 1, 2020 (page 1 of 2)

Line 1 Effective Date November 1, 2020 2 Supercedes Factors October 1, 2020

GENERATION COMPONENT

| | CENTRAL STATION | | 1 |
|----|--|---------------|--|
| | FUEL PRICES, ¢/mmbtu | | |
| 3 | Industrial | 0.00 | |
| | Diesel | 1,141.88 | |
| | Other | 0.00 | |
| 3 | Other | 0.00 | |
| | BTU MIX, % | | DG ENERGY COMPONENT |
| 6 | Industrial | 0.00 | 23 COMPOSITE COST OF DG |
| 7 | Diesel | 100.00 | ENERGY, ¢/kWh 0.000 |
| 8 | Other | 0.00 | 24 % Input to System kWh Mix 0.00 |
| | | <u>100.00</u> | |
| | | | 25 WEIGHTED COMPOSITE DG ENERGY COST, |
| 9 | COMPOSITE COST OF GENERATION, | | ¢/kWh (Lines 23 x 24) 0.00000 |
| | CENTRAL STATION + OTHER ¢/mmbtu | 1,141.88 | |
| | (Lines (3 x 6) + (4 x 7) + (5 x 8)) | | |
| 10 | % Input to System kWh Mix | 99.56 | 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 | | |
| | Eff Factor Centrl Stn + | Weighted | 29 Cost Less Base (Line 25 - 28) 0.00000 |
| | Fuel Type mmbtu/kwh Other | Eff Factor | 30 Loss Factor 1.098 |
| 11 | Industrial 0.000000 0.00 | 0.000000 | 31 Revenue Tax Req Multiplier 1.0975 |
| 12 | Diesel 0.011127 100.00 | 0.011127 | 32 DG FACTOR, |
| 13 | Other 0.011127 0.00 | 0.000000 | ¢/kWh (Line 29 x 30 x 31) 0.00000 |
| | (Lines 11, 12, 13): Col(B) x Col(C) = Col(D) | | |
| 14 | Weighted Efficiency Factor, mmbtu/kWh | | |
| | [lines 11(D) + 12(D) + 13(D)] | 0.011127 | |
| | | | |
| 15 | WEIGHTED COMPOSITE CENTRAL STATION | + | |
| | OTHER GENERATION COST, ¢/kWh | | |
| | (lines (9 x 10 x 14)) | 12.65024 | |
| 40 | DAGE CENTRAL CTATION - CTUER | | |
| 16 | BASE CENTRAL STATION + OTHER | 0.00 | |
| | GENERATION COST, ¢/mmbtu | 0.00 | |
| | Base % Input to Sys kWh Mix | 0.00 | |
| | Efficiency Factor, mmbtu/kwh | 0.011127 | |
| 19 | WEIGHTED BASE CENTRAL STATION + OTHI | ER | |
| | GENERATION COST ¢/kWh | | |
| | (lines (16 x 17 x 18)) | 0.00000 | OLIMANDY OF |
| 20 | COST LESS BASE (line/15 10)) | 12.65024 | SUMMARY OF |
| | COST LESS BASE (line(15 - 19)) | | TOTAL GENERATION FACTOR, ¢/kWh |
| | Revenue Tax Req Multiplier | 1.0975 | 33 CNTRL STN + OTHER (line 22) 13.88364 |
| 22 | CENTRAL STATION + OTHER GENERATION | 13.88364 | 34 DG (line 32) 0.00000 35 TOTAL GENERATION FACTOR. |
| | FACTOR, ¢/kWh (line (20 x 21)) | 13.00304 | ¢/kWh (lines 33 + 34) 13.88364 |
| | | | ψ/Λννιι (IIIIe5 33 ± 34) 13.00304 |

ENERGY COST RECOVERY (ECR) FILING - November 1, 2020 (page 2 of 2)

Line
1 Effective Date
2 Supercedes Factors November 1, 2020 October 1, 2020

| ı | Line | PURCHASED ENERGY COMPONENT | |
|---|------|--|---------------------------|
| | | PURCHASED ENERGY PRICE, ¢/kWh - Fossil PURCHASED ENERGY PRICE, ¢/kWh - Renewab | le |
| | 37 | Unused CBRE FIT | 0.000 22.500 21.800 |
| | 40 | Sch Q | 0.000 |
| | | PURCHASED ENERGY KWH MIX, % - Fossil PURCHASED ENERGY KWH MIX, % - Renewable | |
| | | Unused CBRE | 0.00% 96.90% |
| | | FIT | 3.10% |
| | 45 | Sch Q | 0.00% |
| | | Fossil Purch. Energy % Renewable Purch. Energy % | 0.00% 100.00% |
| | | Comp. Cost, Fossil Purch. Energy, ¢/kWh | N/A |
| | 45D | Comp. Cost, Renewable Purch. Energy,¢/kWh | 22.478 |
| | 46 | COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh (Lines (36 x 41) + (37 x 42) + (38 x 43) + (39 x 44) | 22.478 |
| | 47 | % Input to System kWh Mix | 0.44 |
| | 48 | WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (lines (46 x 47)) | 0.09811 |
| | 49 | BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh | 0.000 |
| | | Base % Input to Sys kWh Mix | 0.00 |
| | 51 | WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (lines (49 x 50)) | 0.00000 |
| | | COST LESS BASE (lines (48 - 51)) Loss Factor | 0.09811 |
| | | Revenue Tax Req Multiplier | 1.0975 |
| | 55 | PURCHASED ENERGY FACTOR, ¢/kWh (lines (52 x 53 x 54)) | 0.11823 |

| <u>Line</u> | Calculation of Monthly Fossil Fuel Cost Risk Sharing Compone | <u>nt</u> |
|-------------|---|------------|
| | Baseline Diesel | |
| 56 | Diesel \$, baseline month | \$415,672 |
| 57 | Diesel mmbtu, baseline | 26,195 |
| 58 | Baseline Diesel, c/mmbtu | 1,586.84 |
| | Month Diesel | |
| 59 | Diesel mmbtu, budget | 25,582 |
| 60 | Diesel Cost, ¢/mmbtu | 1,141.88 |
| 61 | Diesel ECRC Fossil Cost | \$292,116 |
| 62 | Diesel Base ECRC Recovery Target | \$405,947 |
| 63 | Diesel differential | -\$113,831 |
| 64 | Total Fossil | -\$113,831 |
| 65 | 2% of above | -\$2,277 |
| 66 | Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year | -\$15,290 |
| 67 | Maximum Annual Cap (bi-directional) | \$31,500 |
| 68 | Number of Days in year from implementation | 366 |
| 69 | Fossil Risk % Proration (based on 366 day year) | 100.00% |
| 70 | Maximum Annual Cap (bi-directional) prorated | \$31,500 |
| 71 | Applicable Monthly Fossil Fuel Cost Risk Sharing | -\$2,277 |
| 72 | Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month | -\$17,566 |
| 73 | Fossil Cost Risk Sharing before taxes | -\$2,277 |
| 74 | Revenue Tax Adjustment | 1.097514 |
| 75 | Fossil Cost Risk Sharing w/revenue tax | -\$2,499 |
| 76 | Forecasted Month MWh Sales | 2,375 |
| 77 | Fossil Fuel Cost Risk Sharing Component, ¢/kWh | 0.1052 |
| | | |

| <u>Line</u> | SYSTEM COMPOSITE CALCULATIONS | |
|-------------|---|----------|
| 78 | GENERATION AND PURCHASED ENERGY | |
| | FACTOR, ¢/kWh | 14.00187 |
| | (lines (35 + 55)) | |
| 79 | Adjustment, ¢/kWh | 0.000 |
| 80 | Fossil Fuel Cost Risk Sharing Component | 0.105 |
| 81 | ECR Reconciliation Adjustment | (0.011) |
| 82 | ECR FACTOR, ¢/kWh | 14.096 |
| | (lines (78 + 79 + 80 + 81)) | |

Maui Electric Company, Ltd. Molokai Division

MONTH END FUEL OIL ESTIMATE

| | Barrels | MBTU | \$ |
|----------------------|----------|-----------|------------|
| 10/20/2020 | 5,884.14 | 33,716.14 | 224,697.18 |
| Estimated Use | 1,848.64 | 10,592.71 | 95,129.35 |
| Estimated Received | 2,970.00 | 17,018.10 | 328,798.62 |
| Estimated Additional | <u> </u> | <u> </u> | |
| Estimated End | 7,005.50 | 40,141.53 | 458,366.45 |

Next Months Expense = \$ 65.4295 /bbl

FUEL OIL INVENTORY PRICE USED FOR FILING

| Type of Oil Burned | <u>Price</u> | Conversion Factor | Prices ¢/MBTU |
|--------------------|---------------|-------------------|---------------|
| Diesel | \$ 65.4295 | 5.73 BTU/BBL | 1141.88 |

MAUI ELECTRIC COMPANY, LTD. Molokai Division ECR Reconciliation Adjustment

November 2020

| Amount to be refunded | (\$700) |
|------------------------------------|--------------|
| 2. Monthly amount (1/3 x Line 1) | (\$233) |
| 3. Revenue Tax Divisor | 0.91115 |
| 4. Total (Line 2 / Line 3) | (\$256) |
| 5. Estimated Sales (November 2020) | 2,375 mwh |
| 6. Adjustment (Line 4 ÷ Line 5) | -0.011 ¢/kwh |

MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION 2020 FUEL OIL ADJUSTMENT RECONCILIATION SUMMARY (Thousand \$)

| Line | <u>Description</u> | Without Deadband 3rd Quarter <u>YTD Total</u> | collection by company* | Basis for Recon With Deadband 3rd Quarter <u>YTD Total</u> | collection by company* |
|----------------|---|---|------------------------------|---|------------------------------|
| 1 2 3 | Actual Costs Generation Distributed Generation Purch Power | \$3,200.4 \$0.0 \$0.9 | | \$3,200.4 \$0.0 \$0.9 | |
| 4 | Total | \$3,201.3 | | \$3,201.3 | |
| 5 6 7 | Fuel Filing Cost Generation Distributed Generation Purch Power | \$3,200.9 \$0.0 \$0.9 | | \$3,206.1 \$0.0 \$0.9 | |
| 8 | Total | \$3,201.8 | | \$3,206.9 | |
| 9 10 11 | Base Fuel Cost Generation Distributed Generation Purch Power | \$0.0 \$0.0 \$0.0 | | \$0.0 \$0.0 \$0.0 | |
| 12 | Total | \$0.0 | | \$0.0 | |
| 13 | FUEL - BASE COST (Line 8-12) | \$3,201.8 | | \$3,206.9 | |
| 14 15 | ACTUAL FOA REVENUE LESS TAX FOA reconciliation adj for prior years | \$3,248.3 \$21.2 | | \$3,248.3 \$21.2 | |
| 16 | ADJUSTED FOA LESS TAX | \$3,227.1 | | \$3,227.1 | |
| 17 | FOA-(FUEL-BASE) (Line 16-13) | \$25.3 | | \$20.2 | |
| 18 19 20 | ADJUSTMENTS Current year FOA accrual reversal Other prior year FOA Other | \$15.1 \$0.0 \$0.0 | | \$15.1 \$0.0 \$0.0 | |
| | QUARTERLY FOA RECONCILIATION (Line 17+18+19+20) Fossil Fuel YTD Cost Risk Sharing Adjustment YTD QUARTERLY FOA RECON w/Fossil Risk Adj (Line 21+Line 21A) | \$40.4 -\$11.9 \$28.5 | Over | \$35.3 (-\$11.9 \$23.3 | Over |
| 22 | 2nd Quarter Reconciliation YTD | | | \$22.6 | Over |
| 23 | FOA Reconciliation to be Refunded November 2020 to January 202 | 21 (Line 22- 21B) | | -\$0.7 T | o Be Refunded |

^{*} Over means an over-collection by the company. Under means an under-collection by the company.

MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION DEADBAND CALCULATION

Determination of Efficiency Factor to use for Cost-Recovery Purposes Period: January 1, 2020 through September 30, 2020

| | <u>Notes</u> | <u>YTD</u> |
|--|----------------|------------|
| Palaau Diesel | | |
| | f | 11,127 |
| Palaau Diesel Deadband Definition, +/- BTU/kWh | d | 50 |
| Palaau Diesel Portion of Recorded Sales, MWh | а | 21,498 |
| Palaau Diesel Consumption (Recorded), MMBTU | b | 239,601 |
| Palaau Diesel Efficiency Factor (Recorded), BTU/kWh | c = (b/a)*1000 | 11,145 |
| Lower limit of Palaau Diesel Deadband, BTU/kWh | e = f-d | 11,077 |
| Higher limit of Palaau Diesel Deadband, BTU/kWh | g = f+d | 11,177 |
| Palaau Diesel Efficiency Factor for cost-recovery, BTU/kWh | h = c, e, or g | 11,145 |

MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION

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

| | 2020 Without Deadband | With Deadband AS FILED |
|---|--|--|
| | <u>Jan 1 - Sep 30</u> | <u>Jan 1 - Sep 30</u> |
| DIESEL FUEL FILING COST Diesel Portion of Recorded Sales, MWH Diesel Sales Efficiency Factor (mmbtu/kwh) Mmbtu adjusted for Sales Efficiency Factor \$/mmbtu TOTAL DIESEL \$000s TO BE RECOVERED | 21,498 0.011127 239,204 <u>\$13.3813</u> \$3,200.9 | 21,498 0.011145 239,591 <u>\$13.3813</u> \$3,206.1 |
| TOTAL GENERATION FUEL FILING COST, \$000s | \$3,200.9 | \$3,206.1 |
| TOTAL GENERATION BASE FUEL COST , \$000s | \$0.0 | \$0.0 |
| TOTAL GENERATION FUEL FILING COST, \$000s YTD TOTAL GENERATION BASE FUEL COST, \$000s YTD | \$3,200.9 \$0.0 | \$3,206.1 \$0.0 |

Fossil Fuel Cost Risk Sharing Mechanism, September 2020, Molokai

Jan-20, Baseline YTD Subject to Fossil Risk

| | | • | , |
|--------------------------------|--|----------------------|-------------|
| | Diesel Fossil Fuel Cost Risk Sharing | | |
| AA | MMBtu | 26,195 | 239,601 |
| BB | \$ cost, actuals | 415,672 | 3,200,359 |
| CC = BB / AA (Baseline Column) | Jan 2020 baseline \$/mmbtu | 15.8684499 | 15.8684499 |
| DD | Diesel Gen kWh | | 23,624,885 |
| EE | Total kWh, Gen, Purch Pwr, DG | | 23,676,656 |
| FF | Sales kWh | | 21,544,752 |
| $GG = (DD / EE) \times FF$ | Diesel kWh-sales | | 21,497,643 |
| НН | Target Heat Rate | | 11,127 |
| II1 | Upper limit w/deadband | | 11,177 |
| II2 | Lower limit w/deadband | | 11,077 |
| II3 | Calculated Heat Rate (YTD subject to fossil risk, before | ore deadband) | 11,145 |
| II | Recovery Heat Rate (YTD subject to fossil risk, after | deadband) | 11,145 |
| JJ = BB/AA (YTD Column) | Actual Cost \$/MMbtu | | 13.3570298 |
| KK = CC x HH x GG / 1,000,000 | Base Cost Recovery w/Target Heat Rate | | \$3,795,801 |
| LL = II x JJ x GG / 1,000,000 | Fuel Filing Cost Recovery | | \$3,200,227 |
| $MM = 2\% \times (LL-KK)$ | Diesel Cost Risk Sharing | | -\$11,911 |
| NN | Annual Cap (non-prorated) | | \$31,500 |
| 00 | # Days | | 366 |
| PP | Annual Cap (pro-rated) | | \$31,500 |
| QQ = MM, up to cap | Total Fossil Fuel Cost Risk Sharing Adjustment, subj | ject to ±\$31500 cap | -\$11,911 |

MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION 2020 Cumulative Reconciliation Balance

| | (1) | | (2) FOA Rec | (3) FOA Rec | (4) | (5) | (6) Month-end |
|-------------------------|---|------------|-----------------|------------------|------------------|-----------------|----------------------|
| | YTD FOA | _ | Adjust | Less | Try to | Actual | Cumulative |
| <u>Month</u> | Reconciliation | <u>Qtr</u> | <u>Variance</u> | <u>Variance</u> | <u>Collect</u> | <u>Collect</u> | <u>Balance</u> |
| December '18 | | | | | (3,033) | (3,133) | 2,348 |
| January '19 | | | | ,_ , , , , | (3,033) | (3,259) | (911) |
| February | (8,800) | (4) | (682) | (8,118) | 2,933 | 2,637 | (6,392) |
| March | | | | | 2,933 | 2,879 | (3,513) |
| April May | (4,000) | (1) | (576) | (3,424) | 2,933 1,333 | 2,976 1,340 | (537) (2,621) |
| June | (4,000) | (') | (370) | (5,424) | 1,333 | 1,450 | (1,171) |
| July | | | | | 1,333 | 1,381 | 210 |
| August | 42,700 | (2) | 167 | 42,533 | (14,233) | (15,411) | 27,332 |
| September | | | | | (14,233) | (15,604) | 11,728 |
| October | | | | | (14,233) | (14,999) | (3,271) |
| November | 29,000 | (3) | (2,501) | 31,501 | (9,667) | (10,031) | 18,199 |
| December '19 | | | | | (9,667) | (10,289) | 7,910 |
| January '20 February | (21,000) | (4) | (1.752) | (20.249) | (9,667) | (10,240) | (2,330) |
| March | (31,000) | (4) | (1,752) | (29,248) | 10,333 10,333 | 9,207 10,125 | (22,371) (12,246) |
| April | | | | | 10,333 | 9,676 | (2,570) |
| May | (400) | (1) | (1,907) | 1,507 | 133 | 156 | (907) |
| June | (155) | (-) | (1,001) | ,,,,,,, | 133 | 132 | (775) |
| July | | | | | 133 | 140 | (635) |
| August | 23,000 | (2) | (635) | 23,635 | (7,667) | (7,490) | 15,510 |
| September | | | | | (7,667) | (7,964) | 7,546 |
| October | 700 | (0) | (440) | 040 | (7,667) | | |
| November | 700 | (3) | (113) | 813 | (233) | | |
| NOTES: | | | | | | | |
| Col(1): | Quarterly FOA r | econcili | ation amount | s. (Refer to At | tachment 20) | | |
| | A positive numb | | | - | | | |
| Col(2): | FOA reconciliati | | | | | | |
| | starting with the sales used to de | | | | | | oraea |
| | (Col(5) - Col(4)) | | · φ/κwii aujus | uneni and ine | actual records | eu sales. | |
| Col(3): | | | erated in the | current quarte | r The YTD FO | DA reconcilia | tion |
| 001(0). | 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 | - | | · · | , , | t. (Col(1) * 1/ | 3) |
| Col(5): | Actual collected | amount | t. (recorded s | sales * \$/kwh a | djustment/1.0 | 9751) | , |
| Col(6): | Cumulative bala | nce of t | he FOA reco | nciliation (Pre | evious balance | + Col(3) + C | Col(5)) |

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

| Base Rates Base Fuel/Energy Charge Non-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 Recovery Provision SolarSaver Adjustment Refund of 2018 Interim Purchased Power Adjustment Energy Cost Recovery Green Infrastructure Fee |

Avg Residential Bill at 400 kwh

| | Rate | |
|-----------------|----------|----------|
| | 10-01-20 | 11-01-20 |
| | | |
| effective date: | 09/01/19 | 09/01/19 |
| ¢/kWh | 0.0000 | 0.0000 |
| ¢/kWh | 14.0459 | 14.0459 |
| ¢/kWh | 16.6959 | 16.6959 |
| \$ | 11.50 | 11.50 |
| | | |
| % on base | 0.000 | 0.000 |
| ¢/kWh | 0.3383 | 0.3383 |
| ¢/kWh | 0.5882 | 0.5882 |
| ¢/kWh | 0.0000 | 0.0000 |
| ¢/kWh | 0.0000 | 0.0000 |
| % on base | 0.00 | 0.00 |
| ¢/kWh | 0.2449 | 0.0000 |
| ¢/kWh | 10.877 | 14.096 |
| \$ | 1.19 | 1.19 |

| Charge (\$) at 400 Kwh | | | | |
|------------------------------|----------|------------|--|--|
| 10-01-20 11-01-20 Difference | | | | |
| 10-01-20 | 11-01-20 | Difference | | |
| | | | | |
| 0.00 | 0.00 | 0.00 | | |
| 35.11 | 35.11 | 0.00 | | |
| 25.04 | 25.04 | 0.00 | | |
| 11.50 | 11.50 | 0.00 | | |
| 71.65 | 71.65 | 0.00 | | |
| 0.00 | 0.00 | 0.00 | | |
| 1.35 | 1.35 | 0.00 | | |
| 2.35 | 2.35 | 0.00 | | |
| 0.00 | 0.00 | 0.00 | | |
| 0.00 | 0.00 | 0.00 | | |
| 0.00 | 0.00 | 0.00 | | |
| 0.98 | 0.00 | -0.98 | | |
| 43.51 | 56.38 | 12.87 | | |
| 1.19 | 1.19 | 0.00 | | |
| 121.03 | 132.92 | | | |

Increase (Decrease -) % Change

11.89 9.82%

| Base Rates Base Fuel/Energy Charge Non-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 Recovery Provision SolarSaver Adjustment Refund of 2018 Interim Purchased Power Adjustment Energy Cost Recovery Green Infrastructure Fee |

Avg Residential Bill at 500 kwh

| Rate | | | | |
|-----------------|----------|----------|--|--|
| | 10-01-20 | 11-01-20 | | |
| | | | | |
| effective date: | 09/01/19 | 09/01/19 | | |
| ¢/kWh | 0.0000 | 0.0000 | | |
| | | | | |
| ¢/kWh | 14.0459 | 14.0459 | | |
| ¢/kWh | 16.6959 | 16.6959 | | |
| \$ | 11.50 | 11.50 | | |
| | | | | |
| | | | | |
| % on base | 0.000 | 0.000 | | |
| / // ۱۸۸ | 0.000 | 0.0000 | | |
| ¢/kWh | 0.3383 | 0.3383 | | |
| ¢/kWh | 0.5882 | 0.5882 | | |
| ¢/kWh | 0.0000 | 0.0000 | | |
| , | | | | |
| ¢/kWh | 0.0000 | 0.0000 | | |
| % on base | 0.00 | 0.00 | | |
| ¢/kWh | 0.2449 | 0.0000 | | |
| ¢/kWh | 10.877 | 14.096 | | |
| \$ | 1.19 | 1.19 | | |

| Charge (\$) at 500 Kwh | | | | | |
|------------------------|----------|------------|--|--|--|
| 10-01-20 | 11-01-20 | Difference | | | |
| | | | | | |
| | | | | | |
| 0.00 | 0.00 | 0.00 | | | |
| | | | | | |
| 35.11 | 35.11 | 0.00 | | | |
| 41.74 | 41.74 | 0.00 | | | |
| 11.50 | 11.50 | 0.00 | | | |
| 88.35 | 88.35 | 0.00 | | | |
| | | | | | |
| 0.00 | 0.00 | 0.00 | | | |
| 4.00 | 4.00 | 0.00 | | | |
| 1.69 | 1.69 | 0.00 | | | |
| 2.94 | 2.94 | 0.00 | | | |
| 0.00 | 0.00 | 0.00 | | | |
| | | | | | |
| 0.00 | 0.00 | 0.00 | | | |
| 0.00 | 0.00 | 0.00 | | | |
| 1.22 | 0.00 | -1.22 | | | |
| 54.39 | 70.48 | 16.09 | | | |
| 1.19 | 1.19 | 0.00 | | | |
| 140.70 | 164.05 | | | | |
| 149.78 | 164.65 | | | | |

Increase (Decrease -) % Change

14.87 9.93%

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

| FU | EL | FΑ | CT | OR |
|----|-----|-----|----|----|
| CE | ENT | rs/ | K١ | WΗ |

| | CENTS / KWH | | |
|-------------------|---------------|-----------|---------------|
| | RESIDENTIAL & | | IAL BILL (\$) |
| EFFECTIVE DATE | COMMERCIAL | @ 400 KWH | @ 500 KWH |
| | | | |
| January 1, 2018 | -6.300 | 147.68 | 183.78 |
| February 1, 2018 | -6.275 | 147.78 | 183.90 |
| March 1, 2018 | -4.937 | 153.13 | 190.59 |
| April 1, 2018 | -5.975 | 148.47 | 184.76 |
| May 1, 2018 | -5.031 | 152.76 | 190.12 |
| June 1, 2018 | -3.490 | 160.24 | 199.48 |
| July 1, 2018 | -1.354 | 168.81 | 210.24 |
| August 1, 2018 | -4.992 | 154.26 | 192.05 |
| September 1, 2018 | -3.443 | 165.08 | 205.53 |
| October 1, 2018 | -4.054 | 162.63 | 202.48 |
| November 1, 2018 | -3.697 | 164.06 | 204.26 |
| December 1, 2018 | -1.431 | 173.13 | 215.59 |
| | | | |
| January 1, 2019 | -3.771 | 163.91 | 204.03 |
| February 1, 2019 | -7.208 | 150.16 | 186.85 |
| March 1, 2019 | -4.872 | 159.50 | 198.53 |
| April 1, 2019 | -5.034 | 158.51 | 197.29 |
| May 1, 2019 | -3.503 | 164.98 | 205.37 |
| June 1, 2019 | 5.096 | 166.63 | 206.77 |
| July 1, 2019 | 3.171 | 161.65 | 200.57 |
| August 1, 2019 | 2.259 | 155.00 | 192.25 |
| September 1, 2019 | 19.349 | 152.49 | 189.11 |
| October 1, 2019 | 19.071 | 151.51 | 187.89 |
| November 1, 2019 | 20.907 | 162.13 | 201.16 |
| December 1, 2019 | 18.365 | 151.94 | 188.43 |
| , | | | |
| January 1, 2020 | 18.533 | 153.75 | 190.67 |
| February 1, 2020 | 21.165 | 164.02 | 203.51 |
| March 1, 2020 | 21.967 | 167.23 | 207.52 |
| April 1, 2020 | 19.555 | 157.34 | 195.16 |
| May 1, 2020 | 18.231 | 151.00 | 187.24 |
| June 1, 2020 | 12.810 | 127.13 | 157.40 |
| July 1, 2020 | 10.471 | 118.42 | 146.53 |
| August 1, 2020 | 12.013 | 125.55 | 155.44 |
| September 1, 2020 | 14.463 | 135.41 | 167.76 |
| October 1, 2020 | 10.877 | 121.03 | 149.78 |
| November 1, 2020 | 14.096 | 132.92 | 164.65 |
| -, ==== | | | |

MAUI ELECTRIC COMPANY, LTD. -- Molokai Division RESIDENTIAL SURCHARGE DATA

| EFFECTIVE DATE | DESCRIPTION OF SURCHARGE | _ | RATE |
|----------------------|--|---------------|------------------------------|
| 06/01/11 08/17/17 | IRP RECOVERY REFUND RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION | | PERCENT ON BASE CENTS/KWH |
| 07/01/17 - 06/30/18 | RESID. PBF SURCHARGE ADJUSTMENT | 0 4244 | CENTS/KWH |
| 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 | 0.0000 | CENTS/KWH |
| 06/01/18 - 08/22/18 | REVENUE BALANCING ACCOUNT RATE ADJUSTMENT | 1.8954 | CENTS/KWH |
| 07/01/18 - 06/30/19 | RESID. PBF SURCHARGE ADJUSTMENT | 0.4658 | CENTS/KWH |
| 07/01/18 - 12/31/18 | GREEN INFRASTRUCTURE FEE | 1.21 | DOLLARS/MONTH |
| 08/23/18 - 05/31/19 | INTERIM RATE INCREASE 2018 TEST YEAR | 6.68 | PERCENT ON BASE |
| 08/23/18 - 05/31/19 | REVENUE BALANCING ACCOUNT RATE ADJUSTMENT | 0.3183 | CENTS/KWH |
| 01/01/19 / 06/30/19 | GREEN INFRASTRUCTURE FEE | 1.35 | DOLLARS/MONTH |
| 04/01/19 - 04/30/19 | SOLARSAVER ADJUSTMENT | -0.0855 | CENTS/KWH |
| 5/1/2019 - 03/31/20 | SOLARSAVER ADJUSTMENT | | CENTS/KWH |
| 06/01/19 | FINAL RATE INCREASE (3.74%), DOCKET NO. 2017-0150 (2 | 018 TEST YEAI | R) |
| 06/01/19 - 06/30/19 | REFUND OF INTERIM RATE INCREASE 2018 TEST YEAR REVENUE BALANCING ACCOUNT RATE ADJUSTMENT | -2.00 | PERCENT ON BASE |
| 06/01/19 - 05/31/20 | | | |
| 07/01/19 - 12/31/19 | RESID. PBF SURCHARGE ADJUSTMENT | 0.4775 | CENTS/KWH |
| 07/01/19 - 12/31/19 | GREEN INFRASTRUCTURE FEE | | DOLLARS/MONTH |
| 08/01/19 - 08/31/19 | PURCHASED POWER ADJUSTMENT | | CENTS/KWH |
| 09/01/19 - 09/30/19 | PURCHASED POWER ADJUSTMENT | | CENTS/KWH |
| 10/01/19 - 10/31/19 | PURCHASED POWER ADJUSTMENT | | CENTS/KWH |
| 11/01/19 - 11/30/19 | PURCHASED POWER ADJUSTMENT | | CENTS/KWH |
| 12/01/19 - 12/31/19 | PURCHASED POWER ADJUSTMENT | | CENTS/KWH |
| 01/01/20 - 01/31/20 | PURCHASED POWER ADJUSTMENT | | CENTS/KWH |
| 01/01/20 - 06/30/20 | RESID. PBF SURCHARGE ADJUSTMENT | | CENTS/KWH |
| 01/01/20 - 06/30/20 | GREEN INFRASTRUCTURE FEE | | DOLLARS/MONTH |
| 02/01/20 - 04/30/20 | PURCHASED POWER ADJUSTMENT | | CENTS/KWH |
| 04/01/20 - 04/30/20 | SOLARSAVER ADJUSTMENT | | CENTS/KWH |
| 05/01/20 - 05/31/20 | PURCHASED POWER ADJUSTMENT | | CENTS/KWH |
| 05/01/20 | SOLARSAVER ADJUSTMENT | | CENTS/KWH |
| 06/01/20 - 06/30/20 | PURCHASED POWER ADJUSTMENT | | CENTS/KWH |
| 06/01/20 | REVENUE BALANCING ACCOUNT RATE ADJUSTMENT | | CENTS/KWH |
| 07/01/20 - 07/31/20 | PURCHASED POWER ADJUSTMENT | | CENTS/KWH |
| 07/01/20 | RESID. PBF SURCHARGE ADJUSTMENT | | CENTS/KWH |
| 07/01/20 | GREEN INFRASTRUCTURE FEE | | DOLLARS/MONTH |
| 08/01/20 - 08/31/20 | PURCHASED POWER ADJUSTMENT | | CENTS/KWH |
| 09/01/20 - 09/30/20 | PURCHASED POWER ADJUSTMENT | | CENTS/KWH |
| 10/01/20 -10/31/20 | PURCHASED POWER ADJUSTMENT | | CENTS/KWH |
| 11/01/20 | PURCHASED POWER ADJUSTMENT | 0.0000 | 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.