

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. LANAI DIVISION

ENERGY COST RECOVERY FACTOR

| | EFFECTI\ 10-01-20 | /E DATES 11-01-20 | <u>Change</u> | |
|--|---------------------------|---------------------------|------------------------|--|
| COMPOSITE COSTS Generation, Central Station & Other, ¢/mbtu DG Energy, ¢/kWh Purchased Energy, ¢/kWh | 1,522.27 0.00 30.00 | 1,516.48 0.00 30.00 | (5.79) 0.00 0.00 | |
| Residential Schedule "R" | | | | |
| Energy Cost Recovery, ¢/kWh | 18.076 | 17.881 | (0.195) | |
| Others - "G,P,F" | | | | |
| Energy Cost Recovery, ¢/kWh | 18.076 | 17.881 | (0.195) | |
| Residential Customer with | | | | |
| 400 KWH Consumption, \$/Bill | 141.69 | 140.91 | (0.78) | |
| 500 KWH Consumption, \$/Bill | 175.51 | 174.54 | (0.97) | |

Supersedes Sheet Effective: October 1, 2020

MAUI ELECTRIC COMPANY, LTD. LANAI DIVISION

ENERGY COST RECOVERY (ECR) FILING

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

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

GENERATION COMPONENT

| | CENTRAL STATION | | | |
|-------|---|-------------------|---|----------------|
| | FUEL PRICES, ¢/mmbtu | | | |
| 3 | Industrial | 0.00 | | |
| 4 | Diesel - Miki Basin | 1,495.40 | | |
| 5 | Diesel - Manele Bay | 1,902.32 | | |
| 6 | Other | 0.00 | | |
| | | | | |
| | BTU MIX, % | | DG ENERGY COMPONENT | |
| | Industrial | 0.00% | 25 COMPOSITE COST OF DG | |
| | Diesel - Miki Basin | 94.82% | ENERGY, ¢/kWh | 0.000 |
| | Diesel - Manele Bay | 5.18% | | |
| 10 | Other _ | 0.00% | 26 % Input to System kWh Mix | 0.00% |
| | | 100.00% | OF WEIGHTED COMPOSITE DO ENEDOV | |
| | COMPOSITE COST OF OFFICE ATION | | 27 WEIGHTED COMPOSITE DG ENERGY | 0.00000 |
| 11 | COMPOSITE COST OF GENERATION, | 4.540.40 | COST, ¢/kWh (Lines 25 x 26) | 0.00000 |
| | CENTRAL STATION + OTHER ¢/mmbtu | 1,516.48 | | |
| 10 | (Lines (3 x 7) + (4 x 8) + (5 x 9) + (6 x 10)) % Input to System kWh Mix | 95.44% | 28 BASE DG ENERGY COMP COST | 0.000 |
| 12 | % input to System kwin wix | 95.44% | | 0.000 0.00% |
| | EFFICIENCY FACTOR, mmbtu/kWh | | 29 Base % Input to System kWh Mix 30 WEIGHTED BASE DG ENERGY COST. | 0.00% |
| | (A) (B) (C) | (D) | ¢/kWh (Line 28 x 29) | 0.00000 |
| | Percent of | (D) | φ/κννιι (Line 20 x 29) | 0.00000 |
| | Eff Factor Centrl Stn + | Weighted | 31 Cost Less Base (Line 27 - 30) | 0.00000 |
| | Fuel Type mmbtu/kwh Other | Eff Factor | 32 Loss Factor | 1.0500 |
| 13 | Industrial 0.000000 0.00 | 0.000000 | 33 Revenue Tax Reg Multiplier | 1.0975 |
| 14 | | 0.010872 | 34 DG FACTOR, | |
| 15 | Other 0.010872 0.00 | 0.000000 | ¢/kWh (Line 31 x 32 x 33) | 0.00000 |
| | (Lines 13, 14, 15): Col(B) x Col(C) = Col(D) | | , | |
| 16 | Weighted Efficiency Factor, mmbtu/kWh | | | |
| | [lines 13(D) + 14(D) + 15(D)] | 0.010872 | | |
| | | | | |
| 17 | WEIGHTED COMPOSITE CENTRAL STATION | + | | |
| | OTHER GEN COST, ¢/kWh | | | |
| | (lines (11 x 12 x 16)) | 15.73536 | | |
| | | | | |
| 18 | BASE CENTRAL STATION + OTHER GENERA | IION | | |
| 40 | COST, ¢/mmbtu | - 0.000/ | | |
| | Base % Input to Sys kWh Mix | 0.00% 0.010872 | | |
| | Efficiency Factor, mmbtu/kwh | 0.010872 | | |
| 21 | WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST ¢/kWh | | | |
| | (lines (18 x 19 x 20)) | _ | | |
| | (11163 (10 x 13 x 20)) | - | SUMMARY OF | |
| 22 | COST LESS BASE (line(17 - 21)) | 15.73536 | TOTAL GENERATION FACTOR, ¢/kWh | |
| | Revenue Tax Reg Multiplier | 1.0975 | 35 CNTRL STN + OTHER (line 24) | 17.26956 |
| | CENTRAL STATION + OTHER GENERATION | 1.0010 | 36 DG (line 34) | |
| l - ' | FACTOR, ¢/kWh (line (22 x 23)) | 17.26956 | 37 TOTAL GENERATION FACTOR. | |
| | (((((((((((((((| | ¢/kWh (lines 35 + 36) | 17.26956 |
| | | | | |

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

ENERGY COST RECOVERY (ECR) FILING

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

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

| 12 | PURCHASED ENERGY COMPON | ENIT |
|-------------------|--|---|
| <u>Line</u> | PURCHASED ENERGY COMPONI | <u> </u> |
| | PURCHASED ENERGY PRICE, ϕ /kWh - FOSSII PURCHASED ENERGY PRICE, ϕ /kWh - RENEV | |
| 38 39 | LANAI SOLAR RESEARCH - On Peak - Off Peak | 30.000 30.000 |
| 40 | Sch Q | 0.000 |
| 41 42 | PURCHASED ENERGY KWH MIX, %, FOSSIL PURCHASED ENERGY KWH MIX, %, RENEWA LANAI SOLAR RESEARCH - On Peak - Off Peak | ABLE 100.00% 0.00% |
| 43A 43B 43C | Sch Q Total Fossil % Total Renewable % Comp. cost of purch. energy, fossil ¢/kWh Comp. cost of purch. energy, renewable ¢/kWh | 0.00% 0.00% 100.00% N/A 30.00 |
| 45 | COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh (Lines (38 x 41) + (39 x 42) + (40 x 43)) % Input to System kWh Mix WEIGHTED COMP. PURCH. ENERGY | 30.000 4.56% |
| 48 | COST, ¢/kWh (lines (44 x 45)) BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh Base % Input to Sys kWh Mix | 0.000 0.00 |
| 49 | WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (lines (47 x 48)) | 0.00000 |
| 51 52 | COST LESS BASE(lines (46 - 49)) Loss Factor Revenue Tax Req Multiplier PURCHASED ENERGY FACTOR, #/kWh (lines (50 x 51 x 52)) | 1.36800 1.050 1.0975 1.57645 |

| Calculation | on of Monthly Fossil Fuel Cost Risk Sharing Component | |
|-------------|---|------------|
| | Baseline Diesel | |
| 54 | Diesel \$, baseline month | \$616,461 |
| 55 | Diesel mmbtu, baseline | 30,215 |
| 56 | Baseline Diesel, c/mmbtu | 2,040.28 |
| | Month Diesel | |
| 57 | Diesel mmbtu, budget | 30,092 |
| 58 | Diesel Cost, ¢/mmbtu | 1,516.48 |
| 59 | Diesel ECRC Fossil Cost | \$456,341 |
| 60 | Diesel Base ECRC Recovery Target | \$613,965 |
| 61 | Diesel differential | -\$157,624 |
| 62 | Total Fossil | -\$157,624 |
| 63 | 2% of above | -\$3,152 |
| 64 | Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year | -\$23,324 |
| 65 | Maximum Annual Cap (bi-directional) | \$31,500 |
| 66 | Number of Days in year from implementation | 366 |
| 67 | Fossil Risk % Proration (based on 366 day year) | 100.00% |
| 68 | Maximum Annual Cap (bi-directional) prorated | \$31,500 |
| 69 | Applicable Monthly Fossil Fuel Cost Risk Sharing | -\$3,152 |
| 70 | Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month | -\$26,476 |
| 71 | Fossil Cost Risk Sharing before taxes | -\$3,152 |
| 72 | Revenue Tax Adjustment | 1.097514 |
| 73 | Fossil Cost Risk Sharing w/revenue tax | -\$3,460 |
| 74 | Forecasted Month MWh Sales | 2,871 |
| 75 | Fossil Fuel Cost Risk Sharing Component, ¢/kWh | 0.1205 |
| | | |

SYSTEM COMPOSITE CALCULATIONS Line 76 GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (lines (37 + 53)) 18.84599 77 Adjustment, ¢/kWh 0.000 78 Fossil Fuel Cost Risk Sharing Component 0.121 (1.086) 17.881 79 ECR Reconciliation Adjustment 80 ECR FACTOR, ¢/kWh (lines (76 + 77 + 78 + 79))

Maui Electric Company, Ltd. Lanai Division

MONTH END FUEL OIL ESTIMATE

| Miki Basin - ULSD | Barrels | MBTU | \$ |
|----------------------|----------|-----------|------------|
| 10/20/2020 | 3,443.02 | 19,728.56 | 300,685.65 |
| Estimated Use | 1,758.86 | 10,078.27 | 153,418.45 |
| Estimated Received | 2,142.86 | 12,278.59 | 182,504.81 |
| Estimated Additional | 1,152.73 | 6,605.12 | 96,924.85 |
| Estimated End | 4,979.75 | 28,534.00 | 426,696.86 |

Next Month's Combined Miki Expense (\$/bbl) = \$85.6864 /bbl

| Manele CHP | Barrels | MBTU | \$ |
|----------------------|---------|----------|-----------|
| 10/20/2020 | 160.67 | 920.64 | 19,525.58 |
| Estimated Use | (0.02) | (0.11) | (2.26) |
| Estimated Received | - | - | - |
| Estimated Additional | 111.21 | 637.25 | 10,110.42 |
| Estimated End | 271.90 | 1,558.00 | 29,638.26 |

Next Month's Manele Expense (\$/bbl) = \$ 109.0031 /bbl

FUEL OIL INVENTORY PRICE USED FOR FILING

| Type of Oil Burned | <u>Price</u> | Conversion Factor | Prices ¢/MBTU |
|---------------------|--------------|-------------------|---------------|
| Diesel - Miki Basin | \$ 85.6864 | 5.73 BTU/BBL | 1,495.40 |
| Diesel - Manele Bay | \$ 109.0031 | 5.73 BTU/BBL | 1,902.32 |

MAUI ELECTRIC COMPANY, LTD. Lanai Division ECR Reconciliation Adjustment

November 2020

| Amount to be refunded | (\$85,200) |
|------------------------------------|--------------|
| 2. Monthly amount (1 / 3 X Line 1) | (\$28,400) |
| 3. Revenue Tax Divisor | 0.91115 |
| 4. Total (Line 2 / Line 3) | (\$31,169) |
| 5. Estimated Sales (November 2020) | 2,871 mwh |
| 6. Adjustment (Line 4 ÷ Line 5) | -1.086 ¢/kwh |

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

| | (| Without Deadband | collection | Basis for Recon With Deadband | collection |
|------|---|---------------------------------|----------------|----------------------------------|-----------------------|
| Line | | 3rd Quarter <u>YTD Total</u> | by company* | 3rd Quarter <u>YTD Total</u> | by <u>company*</u> |
| | ACTUAL COSTS: | | | | |
| 1 | Generation | \$4,027.2 | | \$4,027.2 | |
| 2 | Distributed Generation | \$0.0 | | \$0.0 | |
| 3 | Purch Power | \$81.1 | | \$81.1 | |
| 4 | TOTAL | \$4,108.3 | | \$4,108.3 | |
| | FUEL FILING COST | | | | |
| 5 | Generation | \$4,098.2 | | \$4,079.4 | |
| 6 | Distributed Generation | \$0.0 | | \$0.0 | |
| 7 | Purch Power | \$81.1 | | \$81.1 | |
| 8 | TOTAL | \$4,179.3 | | \$4,160.5 | |
| | BASE FUEL COST | | | | |
| 9 | Generation | \$0.0 | | \$0.0 | |
| 10 | Distributed Generation | \$0.0 | | \$0.0 | |
| 11 | Purch Power | \$0.0 | | \$0.0 | |
| 12 | TOTAL | \$0.0 | | \$0.0 | |
| 13 | FUEL-BASE COST (Line 8-12) | \$4,179.3 | | \$4,160.5 | |
| 14 | ACTUAL FOA LESS TAX | \$4,210.6 | | \$4,210.6 | |
| 15 | FOA reconciliation adj for prior year | -\$76.1 | | -\$76.1 | |
| 16 | ADJUSTED FOA LESS TAX | \$4,286.7 | | \$4,286.7 | |
| 17 | FOA-(FUEL-BASE) (Line 16-13) | \$107.4 | Over | \$126.2 | Over |
| | ADJUSTMENTS | | | | |
| 18 | Current year FOA accrual reversal | \$125.0 | | \$125.0 | |
| 19 | Other prior year FOA | \$0.0 | | \$0.0 | |
| 20 | Other | \$0.0 | | \$0.0 | |
| 21 | QUARTERLY FOA RECONCILIATION (Line 17+18+19+20) | \$232.4 | Over | \$251.2 | Over |
| | Fossil Fuel YTD Cost Risk Sharing Adjustment | -\$17.7 | OVCI | -\$17.7 | Ovci |
| | YTD QUARTERLY FOA RECON w/Fossil Risk Adj (Line 21+Line 21A) | | | \$233.6 | |
| 22 | 2nd Quarter Reconciliation YTD | | | \$148.4 | Over |
| 23 | FOA Reconciliation to be Refunded November 2020 to January 2021 (| Line 22- 21B) | | -\$85.2 | Refunded |
| | | | | | |

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

MAUI ELECTRIC COMPANY, LTD. LANAI DIVISION DEADBAND CALCULATION

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

| | Notes | <u>YTD</u> |
|---|----------------|------------|
| <u>Diesel</u> | | |
| Diesel Efficiency Factor, BTU/kWh | f | 10,872 |
| Diesel Deadband Definition, +/- BTU/kWh | d | 50 |
| | | |
| Diesel Portion of Recorded Sales, MWh | а | 22,362 |
| Diesel Consumption (Recorded), MMBTU | b | 239,037 |
| Diesel Efficiency Factor (Recorded), BTU/kWh | b | 10,689 |
| Lower limit of Diesel Deadband, BTU/kWh | e = f-d | 10,822 |
| • | | • |
| Higher limit of Diesel Deadband, BTU/kWh | g = f+d | 10,922 |
| Diesel Efficiency Factor for cost-recovery, BTU/kWh | h = c. e. or a | 10.822 |

MAUI ELECTRIC COMPANY, LTD. LANAI DIVISION

GENERATION FUEL FILING COST AND GENERATION BASE FUEL COST, WITHOUT and WITH DEADBAND 2020

| | 2020 | |
|---|-----------------------|------------------|
| | Without | With |
| | Deadband | Deadband |
| | | AS FILED |
| | <u>Jan 1 - Sep 30</u> | Jan 1 - Sep 30 |
| Diesel Portion of Recorded Sales, MWH | 22,362 | 22,362 |
| Diesel Sales Efficiency Factor (mmbtu/kwh) | 0.010872 | 0.010822 |
| Mmbtu adjusted for Sales Efficiency Factor | 243,119 | 242,001 |
| \$/mmbtu | <u>\$16.8569</u> | <u>\$16.8569</u> |
| TOTAL DIESEL \$000s TO BE RECOVERED | \$4,098.2 | \$4,079.4 |
| TOTAL GENERATION FUEL FILING COST, \$000s | \$4,098.2 | \$4,079.4 |
| TOTAL GENERATION BASE FUEL COST , \$000s | \$0.0 | \$0.0 |
| | | |
| TOTAL GENERATION FUEL FILING COST, \$000s YTD | \$4,098.2 | \$4,079.4 |
| TOTAL GENERATION BASE FUEL COST, \$000s YTD | \$0.0 | \$0.0 |

Fossil Fuel Cost Risk Sharing Mechanism, September 2020, Lanai

Jan-20, Baseline YTD Subject to Fossil Risk

| | Diesel Fossil Fuel Cost Risk Sharing | | |
|---|---|------------|-------------|
| AA | MMBtu | 30,215 | 239,037 |
| BB | \$ cost, actuals | 616,461 | 4,027,158 |
| CC = BB / AA (Baseline Column) | Jan 2020 baseline \$/mmbtu | 20.4028093 | 20.4028093 |
| DD | Diesel Gen kWh | | 23,586,663 |
| EE | Total kWh, Gen, Purch Pwr, DG | | 24,312,721 |
| FF | Sales kWh | | 23,050,588 |
| $GG = (DD / EE) \times FF$ | Diesel kWh-sales | | 22,362,221 |
| НН | Target Heat Rate | | 10,872 |
| II1 | Upper limit w/deadband | | 10,922 |
| II2 | Lower limit w/deadband | | 10,822 |
| II3 | Calculated Heat Rate (YTD subject to fossil risk, before deadband) | | 10,689 |
| II | Recovery Heat Rate (YTD subject to fossil risk, after deadband) | | 10,822 |
| JJ = BB/AA (YTD Column) | Actual Cost \$/MMbtu | | 16.8474201 |
| KK = CC x HH x GG / 1,000,000 | Base Cost Recovery w/Target Heat Rate | | \$4,960,373 |
| $LL = II \times JJ \times GG / 1,000,000$ | Fuel Filing Cost Recovery | | \$4,077,142 |
| $MM = 2\% \times (LL-KK)$ | Diesel Cost Risk Sharing | | -\$17,665 |
| 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, subject to ±\$31500 cap | | -\$17,665 |
| | | | |

MAUI ELECTRIC COMPANY, LTD. LANAI 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 Qt | <u>Variance</u> | <u>Variance</u> | Collect | <u>Collect</u> | <u>Balance</u> |
| December '18 | | | | (11,867) | (11,797) | 11,475 |
| January '19 | | | | (11,867) | (11,150) | 325 |
| February | 8,600 (4) | (386) | 8,986 | (2,867) | (2,721) | 6,590 |
| March | | | | (2,867) | (2,728) | 3,862 |
| April | | | | (2,867) | (2,599) | 1,263 |
| May | 91,900 (1) | 1,002 | 90,898 | (30,633) | (28,551) | 63,610 |
| June | | | | (30,633) | (30,812) | 32,798 |
| July | | | | (30,633) | (30,931) | 1,867 |
| August | (13,000) (2) | 2,171 | (15,171) | 4,333 | 4,372 | (8,932) |
| September | | | | 4,333 | 4,343 | (4,589) |
| October | | | | 4,333 | 4,291 | (298) |
| November | (23,800) (3) | (249) | (23,551) | 7,933 | 8,219 | (15,630) |
| December '19 | | | | 7,933 | 8,627 | (7,003) |
| January '20 | | | | 7,933 | 8,106 | 1,103 |
| February | 83,900 (4 | 938 | 82,962 | (27,967) | (28,222) | 55,843 |
| March | | | | (27,967) | (27,038) | 28,805 |
| April | | | | (27,967) | (21,694) | 7,111 |
| May | 78,000 (1) | 847 | 77,153 | (26,000) | (28,250) | 56,014 |
| June | | | | (26,000) | (27,227) | 28,787 |
| July | | | | (26,000) | (29,208) | (421) |
| August | 70,400 (2) | 2,796 | 67,604 | (23,467) | (22,814) | 44,369 |
| September | | | | (23,467) | (18,781) | 25,588 |
| October | | | | (23,467) | | |
| November | 85,200 (3) | 2,131 | 83,069 | (28,400) | | |
| NOTES: | | | | | | |
| Col(1): | Quarterly FOA re | conciliation a | mounts. (Refe | er to Attachme | nt 13) | |
| | A positive number | r is an over-c | collection. A n | egative numb | er is an unde | r-collection. |
| Col(2): | FOA reconciliatio | - | | | - | |
| | starting with the f | | | | | |
| | sales used to der | ve the \$/kwr | n adjustment a | nd the actual | recorded sale | es. |
| Cal/2): | (Col(5) - Col(4)) | a gaparatad | in the ourrent of | guartar Tha | VTD EOA roo | opoiliation |
| Col(3): | FOA reconciliatio difference minus | | | | I ID FOA IEC | oncination |
| Col(4): | Amount that the F | - | | | collect (Col/ | (1) * 1/3) |
| Col(5): | Actual collected a | | • | | • | ., ., ., |
| Col(6): | Cumulative balan | • | | • | , | (3) + Col(5)) |
| | | | | • | | |

Maui Electric Company, Ltd. Lanai 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 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 | | |
| d/k\A/b | 12.3123 | 12.3123 | | |
| ¢/kWh | | | | |
| ¢/kWh | 14.8123 | 14.8123 | | |
| \$ | 11.50 | 11.50 | | |
| | | | | |
| % on base | 0.0000 | 0.0000 | | |
| ¢/kWh | 0.3383 | 0.3383 | | |
| ¢/kWh | 0.5882 | 0.5882 | | |
| ¢/kWh | 0.0000 | 0.0000 | | |
| ¢/kWh | 0.0000 | 0.0000 | | |
| , | | | | |
| 0.00 | 0.00 | 0.00 | | |
| ¢/kWh | 18.076 | 17.881 | | |
| \$ | 1.19 | 1.19 | | |

| Charge (\$) at 400 Kwh | | | | |
|------------------------|--------------------------|-------|--|--|
| 10-01-20 | 1-20 11-01-20 Difference | | | |
| | | | | |
| | | | | |
| 0.00 | 0.00 | 0.00 | | |
| | | | | |
| 30.78 | 30.78 | 0.00 | | |
| 22.22 | 22.22 | 0.00 | | |
| 11.50 | 11.50 | 0.00 | | |
| 64.50 | 64.50 | 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 | | |
| 72.30 | 71.52 | -0.78 | | |
| 1.19 | 1.19 | 0.00 | | |
| | | | | |
| 141.69 | 140.91 | | | |

Increase (Decrease -) % Change

-0.78 -0.55%

| Rasa | 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 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 | 12.3123 | 12.3123 | | | |
| ¢/kWh | 14.8123 | 14.8123 | | | |
| \$ | 11.50 | 11.50 | | | |
| | | | | | |
| | | | | | |
| % on base | 0.0000 | 0.0000 | | | |
| | | | | | |
| ¢/kWh | 0.3383 | 0.3383 | | | |
| ¢/kWh | 0.5882 | 0.5882 | | | |
| /// > * // | 0.0000 | 0.000 | | | |
| ¢/kWh | 0.0000 | 0.0000 | | | |
| ¢/kWh | 0.0000 | 0.0000 | | | |
| 0.00 | 0.00 | 0.00 | | | |
| ¢/kWh | 18.076 | 17.881 | | | |
| \$ | 1.19 | 1.19 | | | |

| Charge (\$) at 500 Kwh | | | | |
|------------------------|----------|------------|--|--|
| Charge (\$) at 500 Kwh | | | | |
| 10-01-20 | 11-01-20 | Difference | | |
| | | | | |
| | | | | |
| 0.00 | 0.00 | 0.00 | | |
| 0.00 | 0.00 | 0.00 | | |
| 30.78 | 30.78 | 0.00 | | |
| | | | | |
| 37.03 | 37.03 | 0.00 | | |
| 11.50 | 11.50 | 0.00 | | |
| 79.31 | 79.31 | 0.00 | | |
| | | | | |
| 0.00 | 0.00 | 0.00 | | |
| 0.00 | 0.00 | 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 | | |
| 90.38 | 89.41 | -0.97 | | |
| 1.19 | 1.19 | | | |
| 1.19 | 1.19 | 0.00 | | |
| | | | | |
| 175.51 | 174.54 | | | |

Increase (Decrease -) % Change

| -0.97 |
|--------|
| -0.55% |

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

FUEL FACTOR CENTS / KWH

| | OLIVIO / IXVIII | | |
|---------------------|-------------------|-----------|---------------|
| | RESIDENTIAL & | RESIDENT | IAL BILL (\$) |
| EFFECTIVE DATE | <u>COMMERCIAL</u> | @ 400 KWH | @ 500 KWH |
| | | | |
| January 1, 2018 | -8.358 | 153.69 | 191.20 |
| February 1, 2018 | -8.395 | 153.54 | 191.01 |
| March 1, 2018 | -7.868 | 155.65 | 193.65 |
| April 1, 2018 | -9.141 | 150.05 | 186.64 |
| May 1, 2018 | -7.716 | 156.26 | 194.41 |
| June 1, 2018 | -6.144 | 163.86 | 203.92 |
| July 1, 2018 | -5.753 | 165.46 | 205.95 |
| August 1, 2018 | -7.005 | 160.45 | 199.69 |
| September 1, 2018 | -6.735 | 166.53 | 207.25 |
| October 1, 2018 | -6.372 | 167.98 | 209.07 |
| November 1, 2018 | -6.037 | 169.32 | 210.74 |
| December 1, 2018 | -5.396 | 171.89 | 213.95 |
| December 1, 2010 | -3.390 | 17 1.09 | 213.93 |
| January 1, 2019 | -6.950 | 165.81 | 206.32 |
| February 1, 2019 | -8.789 | 158.45 | 197.12 |
| March 1, 2019 | -6.041 | 169.45 | 210.86 |
| April 1, 2019 | -6.801 | 166.07 | 206.63 |
| May 1, 2019 | -7.864 | 162.15 | 201.75 |
| June 1, 2019 | 4.196 | 172.73 | 214.30 |
| July 1, 2019 | 3.088 | 171.26 | 212.48 |
| August 1, 2019 | 3.232 | 171.84 | 213.20 |
| September 1, 2019 | 24.278 | 168.18 | 208.62 |
| October 1, 2019 | 24.957 | 170.90 | 212.02 |
| November 1, 2019 | 26.088 | 175.42 | 217.67 |
| December 1, 2019 | 26.449 | 176.87 | 219.48 |
| 2000001 ., 2010 | _00 | | |
| January 1, 2020 | 25.369 | 173.69 | 215.49 |
| February 1, 2020 | 24.109 | 168.65 | 209.19 |
| March 1, 2020 | 23.379 | 165.73 | 205.54 |
| April 1, 2020 | 19.794 | 151.15 | 187.31 |
| May 1, 2020 | 18.958 | 148.04 | 183.43 |
| June 1, 2020 | 15.429 | 131.79 | 163.12 |
| July 1, 2020 | 16.335 | 134.73 | 166.81 |
| August 1, 2020 | 17.755 | 140.41 | 173.91 |
| September 1, 2020 | 18.135 | 141.93 | 175.81 |
| October 1, 2020 | 18.076 | 141.69 | 175.51 |
| November 1, 2020 | 17.881 | 141.09 | 173.51 |
| 11016111061 1, 2020 | 17.001 | 140.91 | 174.04 |

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

| EFFECTIVE DATE | DESCRIPTION OF SURCHARGE | RATE | |
|---------------------|--|---------|-----------------|
| | | | |
| 06/01/11 | IRP RECOVERY REFUND | | PERCENT ON BASE |
| 08/17/17 | RENEWABLE ENERGY INFRASTRUCTURE COST | 0.0000 | CENTS/KWH |
| | RECOVERY PROVISION | | |
| 01/01/18 - 06/30/18 | GREEN INFRASTRUCTURE FEE SOLARSAVER ADJUSTMENT | 1.34 | DOLLARS/MONTH |
| 04/01/18 - 04/30/18 | | | 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 | 6.36 | PERCENT ON BASE |
| 08/23/18 - 05/31/19 | REVENUE BALANCING ACCOUNT RATE ADJUSTMENT | 0.0000 | 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 |
| 05/01/19 - 03/31/20 | SOLARSAVER ADJUSTMENT | | CENTS/KWH |
| 06/01/19 | FINAL RATE INCREASE (3.74%), DOCKET NO. 2017-0150 (2 | | |
| 06/01/19 - 06/30/19 | REFUND OF INTERIM RATE INCREASE 2018 TEST YEAR | | |
| 06/01/19 - 05/31/20 | REVENUE BALANCING ACCOUNT RATE ADJUSTMENT | 0.8716 | CENTS/KWH |
| 07/01/19 - 12/31/19 | RESID. PBF SURCHARGE ADJUSTMENT | 0.4775 | CENTS/KWH |
| 07/01/19 - 12/31/19 | GREEN INFRASTRUCTURE FEE | 1.17 | DOLLARS/MONTH |
| 01/01/20 - 06/30/20 | RESID. PBF SURCHARGE ADJUSTMENT | 0.7437 | CENTS/KWH |
| 01/01/20 - 06/30/20 | GREEN INFRASTRUCTURE FEE | 1.2500 | DOLLARS/MONTH |
| 04/01/20 - 04/30/20 | SOLARSAVER ADJUSTMENT | -0.06 | CENTS/KWH |
| 05/01/20 | SOLARSAVER ADJUSTMENT | 0.0000 | CENTS/KWH |
| 06/01/20 | REVENUE BALANCING ACCOUNT RATE ADJUSTMENT | 0.3383 | CENTS/KWH |
| 07/01/20 | RESID. PBF SURCHARGE ADJUSTMENT | 0.5882 | CENTS/KWH |
| 07/01/20 | GREEN INFRASTRUCTURE FEE | 1.19 | 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.