

December 27, 2019

2019 DEC 27 P 3: 55

PUBLIC UTILITIES COMMISSION

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 January 2020

Maui Electric Company, Limited's ("Maui Electric" or "Company") January 2020 Energy Cost Recovery factor for our Maui Division is 16.751 cents per kilowatt-hour ("kWh"), an increase of 0.560 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$168.57, an increase of \$4.20 compared to rates effective December 1, 2019. The increase in the typical residential bill is due to the increase in the Energy Cost Recovery Factor (+\$2.80), the increase in the Public Benefit Fund Surcharge (+\$1.33), and the increase in the Green Infrastructure Fee (+\$0.08), partially 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 increased 13.65 cents per million BTU to 1,396.08 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy increased 2.528 cents per kWh to 19.466 cents per kWh.

The Energy Cost Recovery factor for our Lāna'i Division for January 2020 is 25.369 cents per kWh, a decrease of 1.080 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$173.69, a decrease of \$3.18 compared to rates effective December 1, 2019. The decrease in the typical residential bill is due to the decrease of the Energy Cost Recovery Factor (-\$4.32), partially offset by the increase in the Public Benefit Fund Surcharge (+\$1.06), and the increase in the Green Infrastructure Fee (+\$0.08).

The Company's Lāna'i Division fuel composite cost of generation, central station and other decreased 92.80 cents per million BTU to 2,044.07 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 January 2020 is 18.533 cents per kWh, an increase of 0.168 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$153.75, an increase of \$1.81 compared to rates effective December 1, 2019. The increase in the typical residential bill is due to the

The Honorable Chair and Members of the Hawai'i Public Utilities Commission December 27, 2019 Page 2

increase of the Energy Cost Recovery Factor (+\$0.67), the increase in the Public Benefit Fund Surcharge (+\$1.06), and the increase in the Green Infrastructure Fee (+\$0.08).

The Company's Moloka'i Division fuel composite cost of generation, central station and other increased 14.27 cents per million BTU to 1,552.69 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy increased 0.66 cents per kWh to 22.46 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 January 1, 2020.

Sincerely,

Sharon M. Suzuki

President

Attachments

cc: Division of Consumer Advocacy

MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION

ENERGY COST RECOVERY FACTOR

| | EFFECTIVE DATES | | |
|-------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|-----------------------|
| | <u>12-01-19</u> | <u>01-01-20</u> | <u>Change</u> |
| COMPOSITE COSTS Generation, Central Station & Other, ¢/mbtu DG Energy, ¢/kWh Purchased Energy, ¢/kWh | 1,538.42 0.00 21.80 | 1,552.69 0.00 22.46 | 14.27 0.00 0.66 |
| Residential Schedule "R" | | | |
| Energy Cost Recovery, ¢/kWh | 18.365 | 18.533 | 0.168 |
| Others - "G,P,F" | | | |
| Energy Cost Recovery, ¢/kWh | 18.365 | 18.533 | 0.168 |
| Residential Customer with | | | |
| 400 KWH Consumption, \$/Bill 500 KWH Consumption, \$/Bill | 151.94 188.43 | 153.75 190.67 | 1.81 2.24 |

Supersedes Sheet Effective: December 1, 2019

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

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

Line

Effective Date
 Supercedes Factors
 January 1, 2020
 December 1, 2019

GENERATION COMPONENT

| | | CENTRA | AL STATION | | | |
|----|---------------|--------------------------|---------------------------------------------------|---------------|-----------------------------------|----------|
| | FUEL PRICE | | | | | |
| 3 | | , . | | 0.00 | | |
| 4 | Diesel | | | 1,552.69 | | |
| 5 | 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 | E COST OF GE | NERATION, | | ¢/kWh (Lines 23 x 24) | 0.00000 |
| | CENTRAL | STATION + OTI | HER ¢/mmbtu | 1,552.69 | | |
| | (Lines (3 x | $6) + (4 \times 7) + (5$ | x 8)) | | | |
| 10 | % Input to S | ystem kWh Mix | | 99.77 | 26 BASE DG ENERGY COMP COST | 0.000 |
| | | | | | 27 Base % Input to System kWh Mix | 0.00 |
| | EFFICIENCY | / FACTOR, mm | btu/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 | , | 0.00000 |
| | Fuel Type | mmbtu/kwh | <u>Other</u> | 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 |
| | • | , , , | $x \operatorname{Col}(C) = \operatorname{Col}(D)$ | | | |
| 14 | Weighted Eff | ficiency Factor, | mmbtu/kWh | | | |
| | [lines 11(D) | + 12(D) + 13(D |)] | 0.011127 | | |
| | | 0011000177 | | | | |
| 15 | | | ENTRAL STATION | + | | |
| | | NERATION CO | OSI, ¢/KVVN | 47.00700 | | |
| | (lines (9 x 1 | 0 x 14)) | | 17.23723 | | |
| 16 | DASE CENT | RAL STATION | , OTHER | | | |
| 10 | | TION COST, ¢/ | | 0.00 | | |
| 17 | | it to Sys kWh Mi | | 0.00 | | |
| | • | ctor, mmbtu/kw | | 0.011127 | | |
| | • | | .L STATION + OTH | | | |
| | | ON COST ¢/kW | | | | |
| | | x 17 x 18)) | | 0.00000 | | |
| | (| X 11 X 10)) | | 0.0000 | SUMMARY OF | |
| 20 | COST LESS | BASE (line(15 | - 19)) | 17.23723 | TOTAL GENERATION FACTOR, ¢/kWl | h |
| | | x Req Multiplier | - // | 1.0975 | | 18.91786 |
| | | | ER GENERATION | | 34 DG (line 32) | 0.00000 |
| | | k/kWh (line (20 | | 18.91786 | 35 TOTAL GENERATION FACTOR, | |
| | , . | ` ` ` | •• | | · | 18.91786 |
| | | | | | , , | |

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

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

Line

1 Effective Date
2 Supercedes Factors
January 1, 2020
December 1, 2019

| Line | PURCHASED ENERGY COMPONENT | |
|------|------------------------------------------------------|---------|
| | | |
| | DUBCHASED ENERGY DRICE #/k/Wh Ecocil | |
| | PURCHASED ENERGY PRICE, ¢/kWh - Fossil | _ |
| 00 | PURCHASED ENERGY PRICE, ¢/kWh - Renewable | |
| | Unused | 0.000 |
| | CBRE | 22.500 |
| | FIT | 21.800 |
| 39 | | |
| | | |
| 40 | Sch Q | 0.000 |
| | | |
| | PURCHASED ENERGY KWH MIX, % - Fossil | |
| | PURCHASED ENERGY KWH MIX, % - Renewable | |
| 41 | Unused | 0.00% |
| 42 | CBRE | 93.88% |
| 43 | FIT | 6.12% |
| 44 | | |
| | | |
| 45 | Sch Q | 0.00% |
| | | |
| 45A | Fossil Purch. Energy % | 0.00% |
| | Renewable Purch. Energy % | 100.00% |
| | Comp. Cost, Fossil Purch. Energy, ¢/kWh | N/A |
| | Comp. Cost, Renewable Purch. Energy,¢/kWh | 22.457 |
| .02 | | |
| 46 | COMPOSITE COST OF PURCHASED | |
| | ENERGY, ¢/kWh | 22.457 |
| | (Lines (36 x 41) + (37 x 42) + (38 x 43) + (39 x 44) | |
| 17 | % Input to System kWh Mix | 0.23 |
| | WEIGHTED COMPOSITE PURCHASED ENERGY | |
| 40 | COST, ¢/kWh (lines (46 x 47)) | 0.05140 |
| | COST, ¢/kWiT (IIIIeS (40 X 47)) | 0.03140 |
| 40 | DACE DUDCHACED ENERGY | |
| 49 | BASE PURCHASED ENERGY | 0.000 |
| | COMPOSITE COST, ¢/kWh | 0.000 |
| | Base % Input to Sys kWh Mix | 0.00 |
| 51 | | |
| | COST, ¢/kWh (lines (49 x 50)) | 0.00000 |
| | 00071500 0405 (# | 0.0=4:= |
| | COST LESS BASE (lines (48 - 51)) | 0.05140 |
| | Loss Factor | 1.098 |
| | Revenue Tax Req Multiplier | 1.0975 |
| 55 | PURCHASED ENERGY FACTOR, ¢/kWh | 0.06194 |
| | (lines (52 x 53 x 54)) | |

| Line | Calculation of Monthly Fossil Fuel Cost Risk Sharing Compone | ent |
|------|-------------------------------------------------------------------|-----------|
| | | |
| | Baseline Diesel | |
| 56 | Diesel \$, baseline month | \$401,775 |
| 57 | Diesel mmbtu, baseline | 25,876 |
| 58 | Baseline Diesel, c/mmbtu | 1,552.69 |
| | Month Diesel | |
| 59 | Diesel mmbtu, budget | 25,876 |
| 60 | Diesel Cost, ¢/mmbtu | 1,552.69 |
| 61 | Diesel ECRC Fossil Cost | \$401,775 |
| 62 | Diesel Base ECRC Recovery Target | \$401,775 |
| 63 | Diesel differential | \$0 |
| 64 | Total Fossil | \$0 |
| 65 | 2% of above | \$0 |
| 66 | Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year | \$0 |
| 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 | \$0 |
| 72 | Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month | \$0 |
| 73 | Fossil Cost Risk Sharing before taxes | \$0 |
| 74 | Revenue Tax Adjustment | 1.097514 |
| 75 | Fossil Cost Risk Sharing w/revenue tax | \$0 |
| 76 | Forecasted Month MWh Sales | 2,374 |
| 77 | Fossil Fuel Cost Risk Sharing Component, ¢/kWh | 0.0000 |
| | | |

| Line | SYSTEM COMPOSITE CALCULATIONS | |
|------|-----------------------------------------|----------|
| 78 | GENERATION AND PURCHASED ENERGY | |
| | FACTOR, ¢/kWh | 18.97980 |
| | (lines (35 + 55)) | |
| 79 | Adjustment, ¢/kWh | 0.000 |
| 80 | Fossil Fuel Cost Risk Sharing Component | 0.000 |
| 81 | ECR Reconciliation Adjustment | (0.447) |
| 82 | ECR FACTOR, ¢/kWh | 18.533 |
| | (lines (78 + 79 + 80 + 81)) | |

Maui Electric Company, Ltd. Molokai Division

MONTH END FUEL OIL ESTIMATE

| | Barrels | MBTU | \$ |
|----------------------|----------|-----------|------------|
| 12/17/2019 | 4,609.95 | 26,415.03 | 421,037.03 |
| Estimated Use | 2,028.45 | 11,623.02 | 178,811.32 |
| Estimated Received | 4,700.00 | 26,931.00 | 405,603.42 |
| Estimated Additional | | <u> </u> | |
| Estimated End | 7,281.50 | 41,723.01 | 647,829.13 |

Next Months Expense = \$88.9692 /bbl

FUEL OIL INVENTORY PRICE USED FOR FILING

| Type of Oil Burned | <u>Price</u> | Conversion Factor | Prices ¢/MBTU |
|--------------------|---------------|-------------------|---------------|
| Diesel | \$ 88.9692 | 5.73 BTU/BBL | 1552.69 |

MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION

Contract Prices effective December 1, 2019

| TYPE OF OIL BURNED | \$/BBL | ¢/MBTU_ |
|-----------------------|--------|---------|
| | | |
| ULTRA LOW SULFUR DIES | BEL | |
| Tax * | 4.8871 | 0.8528 |
| Ocean Transportation | 1.7087 | 29.82 |
| Storage | 5.0658 | 88.41 |
| Wharfage | 0.4000 | 6.98 |

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, Federal Oil Spill Recovery Fee, and Federal Excise Tax.

MAUI ELECTRIC COMPANY, LTD. Molokai Division ECR Reconciliation Adjustment

January 2020

| 1. | Amount to be refunded | (\$29,000) | |
|----|--------------------------------|------------|-------|
| 2. | Monthly amount (1/3 x Line 1) | (\$9,667) | |
| 3. | Revenue Tax Divisor | 0.91115 | |
| 4. | Total (Line 2 / Line 3) | (\$10,610) | |
| 5. | Estimated Sales (January 2020) | 2,374 | mwh |
| 6. | Adjustment (Line 4 ÷ Line 5) | -0.447 | ¢/kwh |

MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION

2019 Cumulative Reconciliation Balance

| | (1) YTD FOA | | (2) FOA Rec Adjust | (3) FOA Rec Less | (4) Try to | (5) Actual | (6) Month-end Cumulative |
|-----------------------------------------|----------------|------------|--------------------------|------------------------|-------------------------------|----------------------|--------------------------------|
| <u>Month</u> | Reconciliation | <u>Qtr</u> | <u>Variance</u> | Variance | Collect | Collect | Balance |
| December '18 January '19 | | | | | (3,033) (3,033) | (3,133) (3,259) | 2,348 (911) |
| February | (8,800) | (4) | (682) | (8,118) | 2,933 | 2,637 | (6,392) |
| March April | | | | | 2,933 2,933 | 2,879 2,976 | (3,513) (537) |
| May June | (4,000) | (1) | (576) | (3,424) | 1,333 1,333 | 1,340 1,450 | (2,621) (1,171) |
| July | | | | | 1,333 | 1,381 | 210 |
| August | 42,700 | (2) | 167 | 42,533 | (14,233) | (15,411) | 27,332 |
| September October | | | | | (14,233) (14,233) | (15,604) (14,999) | 11,728 (3,271) |
| November December '19 January '20 | 29,000 | (3) | (2,501) | 31,501 | (9,667) (9,667) (9,667) | (10,031) | 18,199 |

NOTES:

Col(2):

Col(1): Quarterly FOA reconciliation amounts. (Refer to Attachment 20)

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 sales * \$/kwh adjustment/1.09751)

Col(6): Cumulative balance of the FOA reconciliation (Previous balance + Col(3) + 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 |
| IRP Refund Revenue Balancing Rate Adjustment |
| |
| Revenue Balancing Rate Adjustment |
| Revenue Balancing Rate Adjustment PBF Surcharge |
| Revenue Balancing Rate Adjustment PBF Surcharge Renewable Energy Infrastructure Cost Recovery |
| Revenue Balancing Rate Adjustment PBF Surcharge Renewable Energy Infrastructure Cost Recovery Provision |
| Revenue Balancing Rate Adjustment PBF Surcharge Renewable Energy Infrastructure Cost Recovery Provision SolarSaver Adjustment |
| Revenue Balancing Rate Adjustment PBF Surcharge Renewable Energy Infrastructure Cost Recovery Provision SolarSaver Adjustment Refund of 2018 Interim |
| Revenue Balancing Rate Adjustment PBF Surcharge Renewable Energy Infrastructure Cost Recovery Provision SolarSaver Adjustment Refund of 2018 Interim Purchased Power Adjustment |

Avg Residential Bill at 400 kwh

| Rate | | | | | | |
|-----------------|----------|----------|--|--|--|--|
| | 12-01-19 | 01-01-20 | | | | |
| | | | | | | |
| 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 | 0.8716 | 0.8716 | | | | |
| ¢/kWh | 0.4775 | 0.7437 | | | | |
| ¢/kWh | 0.0000 | 0.0000 | | | | |
| ¢/kWh | 0.0000 | 0.0000 | | | | |
| • | 0.00 | 0.00 | | | | |
| % on base | | | | | | |
| ¢/kWh | 0.0655 | 0.0648 | | | | |
| ¢/kWh | 18.365 | 18.533 | | | | |
| \$ | 1.17 | 1.25 | | | | |

| Charge (\$) at 400 Kwh | | | |
|------------------------|----------|------------|--|
| 12-01-19 | 01-01-20 | 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 | |
| | | | |
| 3.49 | 3.49 | 0.00 | |
| 1.91 | 2.97 | 1.06 | |
| | | | |
| 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | 0.00 | |
| 0.26 | 0.26 | 0.00 | |
| 73.46 | 74.13 | 0.67 | |
| 1.17 | 1.25 | 0.08 | |
| | | | |
| 151.94 | 153.75 | | |

Increase (Decrease -) % Change

1.81 1.19%

| 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 | | | | |
|-----------------|----------|----------|--|--|
| | 12-01-19 | 01-01-20 | | |
| | | | | |
| 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 | 0.8716 | 0.8716 | | |
| ¢/kWh | 0.4775 | 0.7437 | | |
| ¢/kWh | 0.0000 | 0.0000 | | |
| ¢/kWh | 0.0000 | 0.0000 | | |
| % on base | 0.00 | 0.00 | | |
| ¢/kWh | 0.0655 | 0.0648 | | |
| · | 18.365 | 18.533 | | |
| ¢/kWh | | | | |
| \$ | 1.17 | 1.25 | | |

| Charge (\$) at 500 Kwh | | | |
|------------------------|----------|------------|--|
| 12-01-19 | 01-01-20 | 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 | |
| | | | |
| 4.36 | 4.36 | 0.00 | |
| 2.39 | 3.72 | 1.33 | |
| | | | |
| 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | 0.00 | |
| 0.33 | 0.32 | -0.01 | |
| 91.83 | 92.67 | 0.84 | |
| 1.17 | 1.25 | 0.08 | |
| | | | |
| 188.43 | 190.67 | | |

Increase (Decrease -) % Change

2.24 1.19%

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

| EFFECTIVE DATE | FUEL FACTOR CENTS / KWH RESIDENTIAL & COMMERCIAL | | TAL BILL (\$) <u>@ 500 KWH</u> |
|-------------------|-----------------------------------------------------------|--------|-----------------------------------|
| January 1, 2018 | -6.300 | 147.68 | 183.78 |
| February 1, 2018 | -6.275 | 147.78 | 183.90 |
| March 1, 2018 | -0.273 -4.937 | 153.13 | 190.59 |
| April 1, 2018 | -4.937 -5.975 | 148.47 | 184.76 |
| May 1, 2018 | -5.973 -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 |
| | | | |

18.533

153.75

190.67

January 1, 2020

MAUI ELECTRIC COMPANY, LTD. -- Molokai 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 | | |
| 07/01/17 - 06/30/18 | RESID. PBF SURCHARGE ADJUSTMENT | 0.4244 | CENTS/KWH |
| 01/01/18 - 06/30/18 | GREEN INFRASTRUCTURE FEE | 1.34 | DOLLARS/MONTH |
| 04/01/18 - 04/30/18 | SOLARSAVER ADJUSTMENT | 1.3400 | 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 |
| 05/01/19 | SOLARSAVER ADJUSTMENT | 0.0000 | CENTS/KWH |
| 06/01/19 | FINAL RATE INCREASE (3.74%), DOCKET NO. 2017-0150 (201 | 8 TEST YEAR | 2) |
| 06/01/19 - 06/30/19 | REFUND OF INTERIM RATE INCREASE 2018 TEST YEAR | -2.00 | PERCENT ON BASE |
| 06/01/19 | 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 |
| 08/01/19 - 08/31/19 | PURCHASED POWER ADJUSTMENT | -0.7518 | CENTS/KWH |
| 09/01/19 - 09/30/19 | PURCHASED POWER ADJUSTMENT | -0.7820 | CENTS/KWH |
| 10/01/19 - 10/31/19 | PURCHASED POWER ADJUSTMENT | -0.7475 | CENTS/KWH |
| 11/01/19 - 11/30/19 | PURCHASED POWER ADJUSTMENT | 0.0692 | CENTS/KWH |
| 12/01/19 - 12/31/19 | PURCHASED POWER ADJUSTMENT | 0.0655 | CENTS/KWH |
| 01/01/20 | PURCHASED POWER ADJUSTMENT | 0.0648 | CENTS/KWH |
| 01/01/20 | RESID. PBF SURCHARGE ADJUSTMENT | 0.7437 | CENTS/KWH |
| 01/01/20 | GREEN INFRASTRUCTURE FEE | 1.25 | 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.