



FILED

SHARON M. SUZUKI
President

February 26, 2019

2019 FEB 26 P 3: 32

The Honorable Chair and Members
of the Hawai'i Public Utilities Commission
Kekuanaoa Building, First Floor
465 South King Street
Honolulu, Hawai'i 96813

PUBLIC UTILITIES
COMMISSION

Dear Commissioners:

Subject: Hawai'i Electric Light Energy Cost Recovery Factor for March 2019

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") Energy Cost Recovery factor for March 2019 is 14.976 cents per kilowatt-hour ("kWh"), an increase of 0.35 cents per kWh from last month.

Hawai'i Electric Light's fuel composite cost of generation decreased 6.00 per million BTU to 1,260.51 cents per million BTU. The distributed generation decreased 0.31 cents per kWh to 15.454 cents per kWh. The composite cost of purchased energy increased 0.60 cents per kWh to 12.899 cents per kWh.

A residential customer consuming 500 kWh of electricity will be paying \$176.10, an increase of \$1.85 compared to rates effective February 1, 2019. The increase in the typical residential bill is due to the increase of (+\$1.72) of the Energy Cost Recovery Factor and an increase in the Purchased Power Adjustment rate (+\$0.13).

The attached sheets set forth the energy cost recovery factor in cents per kWh for each rate schedule that is applicable for pro rata use beginning March 1, 2019.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST RECOVERY FACTOR

| | <u>EFFECTIVE DATES</u> | | |
|------------------------------------|------------------------|----------------|---------------|
| | <u>2/01/19</u> | <u>3/01/19</u> | <u>Change</u> |
| <u>Composite Cost</u> | | | |
| Generation, ¢/mmbtu | 1,266.51 | 1,260.51 | (6.00) |
| Dispersed Generation Energy, ¢/kWh | 15.769 | 15.454 | (0.31) |
| Purchased Energy, ¢/kWh | 12.303 | 12.899 | 0.60 |
| <u>Residential Schedule "R"</u> | | | |
| Energy Cost Recovery - ¢/kWh | 14.631 | 14.976 | 0.35 |
| <u>Others - "G,J,P,F"</u> | | | |
| Energy Cost Recovery - ¢/kWh | 14.631 | 14.976 | 0.35 |
| Residential Customer with: | | | |
| 500 KWH Consumption - \$/Bill | \$174.25 | \$176.10 | \$1.85 |
| 600 KWH Consumption - \$/Bill | \$208.53 | \$210.75 | \$2.22 |

HAWAII ELECTRIC LIGHT COMPANY, INC.
ENERGY COST RECOVERY (ECR) FILING

ENERGY COST RECOVERY (ECR) FILING - March 1, 2019 (Page 1 of 2)

| | | |
|-------------|-----------------------|------------------|
| <u>Line</u> | | |
| 1 | Effective Date | March 1, 2019 |
| 2 | Supersedes Factors of | February 1, 2019 |

GENERATION COMPONENT

| <u>CENTRAL STATION WITH WIND/HYDRO COMPONENT</u> | | | | | | |
|---|---|------------------|---------------------|-----------------------------------|---|----------|
| FUEL PRICES, ¢/mmbtu | | | | | | |
| 3 | | | | | | |
| 4 | Hill Industrial | | 995.67 | | | |
| 5 | Puna Industrial | | 1,014.71 | | | |
| 6 | Keahole Diesel | | 1,462.65 | | | |
| 6a | Keahole ULSD | | 1,658.11 | | | |
| 7 | Waimea ULSD Diesel | | 1,658.66 | | | |
| 8 | Hilo Diesel | | 1,427.10 | | | |
| 8a | Hilo (Kanoelehua) ULSD Diesel ¹ | | 1,620.73 | | | |
| 9 | Puna Diesel | | 1,434.24 | | | |
| 10 | Wind | | 0.00 | | | |
| 11 | Hydro | | 0.00 | | | |
| BTU MIX, % | | | | | | |
| 12 | | | | | | |
| 13 | Hill Industrial | | 31.323 | | | |
| 14 | Puna Industrial | | 5.373 | | | |
| 15 | Keahole Diesel | | 43.839 | | | |
| 15a | Keahole ULSD | | 0.276 | | | |
| 16 | Waimea ULSD Diesel | | 0.362 | | | |
| 17 | Hilo Diesel | | 4.731 | | | |
| 17a | Hilo (Kanoelehua) ULSD Diesel ¹ | | 0.359 | | | |
| 18 | Puna Diesel | | 11.782 | | | |
| 19 | Wind | | 0.000 | | | |
| 20 | Hydro | | 1.955 | | | |
| | | | 100.000 | | | |
| 21 | COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmbtu | | 1,260.51 | | | |
| 22 | % Input to System kWh Mix | | 60.683 | | | |
| EFFICIENCY FACTOR, mmbtu/kWh | | | | | | |
| | (A) | (B) | (C) | (D) | | |
| | | Eff Factor | Percent of | Weighted | | |
| | <u>Fuel Type</u> | <u>mmbtu/kwh</u> | <u>Centrl Stn +</u> | <u>Eff Factor</u> | | |
| | | | <u>Wind/Hydro</u> | | | |
| 23 | Industrial | 0.014569 | 36.696 | 0.005346 | | |
| 24 | Diesel | 0.010480 | 61.349 | 0.006429 | | |
| 25 | Other | 0.012395 | 1.955 | 0.000242 | | |
| | (Lines 23, 2 | | | | | |
| 26 | Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)] | | | 0.0120170 | | |
| 27 | WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26)) | | | 9.19199 | | |
| 28 | BASE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/mmbtu | | | 0.00 | | |
| 29 | Base % Input to Sys kWh Mix | | | 0.00 | | |
| 30 | Efficiency Factor, mmbtu/kwh | | | 0.000000 | | |
| 31 | WEIGHTED BASE CENTRAL STATION + WIND/HYDRO GENERATION COST ¢/kWh (Lines (28 x 29 x 30)) | | | 0.00000 | | |
| 32 | COST LESS BASE (Line 27 - 31) | | | 9.19199 | | |
| 33 | Revenue Tax Req Multiplier | | | 1.0975 | | |
| 34 | CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33)) | | | 10.08821 | | |
| | | | | <u>DG ENERGY COMPONENT</u> | | |
| | | | | 35 | COMPOSITE COST OF DG ENERGY, ¢/kWh | 15.454 |
| | | | | 36 | % Input to System kWh Mix | 0.130 |
| | | | | 37 | WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36) | 0.02015 |
| | | | | 38 | BASE DG ENERGY COMPOSITE COS | 0.000 |
| | | | | 39 | Base % Input to System kWh Mix | 0.00 |
| | | | | 40 | WEIGHTED BASE DG ENERGY COST, ¢/kWh (Line 38 x 39) | 0.00000 |
| | | | | 41 | Cost Less Base (Line 37 - 40) | 0.02015 |
| | | | | 42 | Loss Factor | 1.072 |
| | | | | 43 | Revenue Tax Req Multiplier | 1.0975 |
| | | | | 44 | DG FACTOR, ¢/kWh (Line 41 x 42 x 43) | 0.02371 |
| | | | | SUMMARY OF | | |
| | | | | TOTAL GENERATION FACTOR, ¢/kWh | | |
| | | | | 45 | Cntrl Stn+Wind/Hydro (line 34) | 10.08821 |
| | | | | 46 | DG (line 44) | 0.02371 |
| | | | | 47 | TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46) | 10.11192 |

¹ Hilo ULSD same location as Kanoelehua ULSD

Hawaii Electric Light Company, Inc.
FUEL OIL INVENTORY PRICES FOR March 1, 2019

INDUSTRIAL FUEL COSTS:

| | <u>HILO</u> | <u>PUNA</u> |
|---------------------------------------|-------------|-------------|
| Average Industrial Fuel Cost - \$/BBL | 62.7271 | 62.7271 |
| Land Transportation Cost - \$/BBL | -- | 1.1998 |
| Industrial Costs For Filing - \$/BBL | 62.7271 | 63.9270 |
| Conversion Factors - mmbtu/BBL | 6.30 | 6.30 |
| Industrial Costs For Filing - ¢/mmbtu | 995.67 | 1,014.71 |

DIESEL FUEL COSTS:

| | KEAHOLE | PUNA CT-3 | HILO |
|-----------------------------------|----------|-----------|----------|
| Average Diesel Fuel Cost - \$/BBL | 82.5389 | 82.5389 | 82.5389 |
| Land Transportation Cost - \$/BBL | 3.1722 | 1.5073 | 1.0891 |
| Diesel Costs For Filing - \$/BBL | 85.7111 | 84.0462 | 83.6280 |
| Conversion Factors - mmbtu/BBL | 5.86 | 5.86 | 5.86 |
| Diesel Costs For Filing - ¢/mmbtu | 1,462.65 | 1,434.24 | 1,427.10 |

ULSD FUEL COSTS:

| | KEAHOLE | WAIMEA | HILO | DISPERSED GENERATION |
|-----------------------------------|----------|----------|----------|----------------------|
| Average ULSD Fuel Cost - \$/BBL | 91.7206 | 91.7206 | 91.7206 | 91.7206 |
| Land Transportation Cost - \$/BBL | 3.2893 | 3.3208 | 1.1474 | - |
| ULSD Costs For Filing - \$/BBL | 95.0100 | 95.0415 | 92.8680 | 91.7206 |
| Conversion Factors - mmbtu/BBL | 5.73 | 5.73 | 5.73 | 5.73 |
| ULSD Costs For Filing - ¢/mmbtu | 1,658.11 | 1,658.66 | 1,620.73 | 1,600.71 |

Dispersed Generation, cents per kWh

| | <u>COMPOSITE COST OF DISP. GEN.</u> |
|--|-------------------------------------|
| BBIs Fuel: | 203.0311 |
| \$/BBI Inv Cost: | 91.7206 |
| Fuel \$ (Prod Sim Consumption x Unit Cost) | 18,622.14 |
| Net kWh (from Prod Sim) | 120,500 |
| cents/kWh: | 15.454 |

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
February 2019

| | SHIPMAN INDUSTRIAL | | HILL INDUSTRIAL | | COST PER BARREL | | |
|------------------------------|--------------------|----------------------|-----------------|-----------------------|-----------------|----------|----------|
| | BBL | COST | BBL | COST | EXCL LT | LT Total | |
| Balance at 01/31/2019 | 0 | 0.00 | 36,714 | 2,371,292.28 | | | |
| Less: Est'd Inventory Addn | | | 0 | 0.00 | | | |
| Purchases: Estimate | xxxxxx | xxxxxxxxxxxxxxxxxxxx | xxxxxxxxxx | xxxxxxxxxxxxxxxxxxxx | | | |
| Actual | xxxxxx | xxxxxxxxxxxxxxxxxxxx | xxxxxxxxxx | xxxxxxxxxxxxxxxxxxxx | | | |
| Transfers out: Estimate | xxxxxx | xxxxxxxxxxxxxxxxxxxx | xxxxxxxxxx | xxxxxxxxxxxxxxxxxxxx | | | |
| Actual | xxxxxx | xxxxxxxxxxxxxxxxxxxx | xxxxxxxxxx | xxxxxxxxxxxxxxxxxxxx | | | |
| Transfers in: Estimate | 0 | 0.00 | (26,748) | (1,899,510.95) | | | |
| Actual | 0 | 0.00 | 32,353 | 2,312,732.24 | | | |
| Consumed: Estimate | 0 | 0.00 | 25,260 | 1,894,340.26 | | | |
| Actual | 0 | 0.00 | (27,151) | (2,331,662.33) | | | |
| Balance Per G/L 01/31/2019 | <u>0</u> | <u>0.00</u> | <u>40,428</u> | <u>2,347,191.50</u> | | | |
| Purchases | xxxxxx | xxxxxxxxxxxxxxxxxxxx | xxxxxxxxxx | xxxxxxxxxxxxxxxxxxxx | | | |
| Transfer out | xxxxxx | xxxxxxxxxxxxxxxxxxxx | xxxxxxxxxx | xxxxxxxxxxxxxxxxxxxx | | | |
| Transfer in | 0 | 0.00 | 17,501 | 1,050,840.77 | | | |
| Consumed | <u>0</u> | <u>0.00</u> | <u>(31,304)</u> | <u>(1,941,526.31)</u> | 106.5901 | 0.0000 | 106.5901 |
| Balance @ 02/28/2019 | 0 | 0.00 | 26,625 | 1,456,505.96 | | | |
| Inv From Offsite/Transfers | 0 | 0.00 | 4,796 | 396,679.79 | | | |
| Est'd Inventory Addition | 0 | 0.00 | (0) | (0.00) | | | |
| Fuel Balance @ 02/28/2019 | <u>0</u> | <u>0.00</u> | <u>31,421</u> | <u>1,853,185.76</u> | | | |
| Reverse Fuel Balance | xxxxxx | 0.00 | xxxxxx | (1,853,185.76) | | | |
| Fuel Bal @ Avg Price | xxxxxx | 0.00 | xxxxxx | 1,970,955.98 | | | |
| Total @ 03/01/2019 Avg Price | <u>0</u> | <u>0.00</u> | <u>31,421</u> | <u>1,970,955.98</u> | | | |

Weighted Avg Cost/BBL by Location #DIV/0! 58.9790

Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 62.7271

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
February 2019

PUNA INDUSTRIAL

| | BBL | COST | LAND TRANSP | COST PER BARREL | | TOTAL |
|----------------------------------|----------------|---------------------|-------------------|-----------------|---------------|---------|
| | | | | EXCLUDE LT | LT | |
| Balance at 01/31/2019 | 6,578 | 378,299.46 | 10,021.57 | | | |
| Less: Est'd Inventory Addition | 0 | 0.00 | 0.00 | | | |
| Purchases: Estimate | xxxxxxxxxxxx | xxxxxxxxxxxx | xxxxxxxxxxxx | | | |
| Actual | xxxxxxxxxxxx | xxxxxxxxxxxx | xxxxxxxxxxxx | | | |
| Transfers out: Estimate | xxxxxxxxxxxx | xxxxxxxxxxxx | xxxxxxxxxxxx | | | |
| Actual | xxxxxxxxxxxx | xxxxxxxxxxxx | xxxxxxxxxxxx | | | |
| Transfers in: Estimate | (4,493) | (244,811.81) | (5,372.46) | | | |
| Actual | 4,405 | 284,215.64 | 4,971.89 | | | |
| Consumed: Estimate | 5,673 | 425,439.13 | 7,104.49 | | | |
| Actual | <u>(4,656)</u> | <u>(407,296.80)</u> | <u>(5,830.87)</u> | | | |
| Balance Per G/L 01/31/2019 | <u>7,507</u> | <u>435,845.62</u> | <u>10,894.62</u> | | | |
| Purchases | xxxxxxxxxxxx | xxxxxxxxxxxx | xxxxxxxxxxxx | | | |
| Transfer out | xxxxxxxxxxxx | xxxxxxxxxxxx | xxxxxxxxxxxx | | | |
| Transfer in | 4,721 | 133,008 | 5,645.09 | | | |
| Consumed | (5,772) | <u>(357,989.07)</u> | (8,793.63) | 62.0217 | 1.5235 | 63.5452 |
| Balance @ 02/28/2019 | <u>6,456</u> | <u>210,864.69</u> | <u>7,746.08</u> | | | |
| Inventory From Offsite/Transfers | 0 | 0.00 | 0.00 | | | |
| Est'd Inventory Addition | 0 | 0.00 | 0.00 | | | |
| Fuel Bal @ Avg Price | <u>6,456</u> | <u>210,864.69</u> | <u>7,746.08</u> | | <u>1.1998</u> | |
| Reverse Fuel Balance | xxxxxxxxxxxx | (210,864.69) | xxxxxxxxxxxx | | | |
| Fuel Balance @ Avg Price | xxxxxxxxxxxx | 404,966.47 | xxxxxxxxxxxx | | | |
| Total @ 03/01/2019 Avg Price | <u>6,456</u> | <u>404,966.47</u> | <u>7,746.08</u> | | | |

Weighted Avg Cost/BBL by Location

32.6618

1.1998

Weighted Avg Cost/BBL @ Avg Cost

62.7271

1.1998

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
February 2019

KEAHOLE CT

| HS Diesel | BBL | GALLONS | COST EXCLUDE LT | LAND TRANSP | COST PER BARREL EXCLUD LT | LT | TOTAL |
|----------------------------------|------------|-----------------|--------------------|-----------------|------------------------------|--------|---------|
| Balance at 01/31/2019 | 50,021.9 | 2,100,921.0 | 4,039,057.6 | 157,242.5 | | | |
| Less: Est'd Inventory Addition | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| Purchases: Estimate | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| Actual | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| Transfers out: Estimate | | xxxxxxxxxxxxxxx | xxxxxxxxxxxxxxx | xxxxxxxxxxxxxxx | | | |
| Actual | | xxxxxxxxxxxxxxx | xxxxxxxxxxxxxxx | xxxxxxxxxxxxxxx | | | |
| Transfers in: Estimate | (36,768.6) | (1,544,282.0) | (3,366,319.8) | (104,547.9) | | | |
| Actual | 41,496.9 | 1,742,869.0 | 3,729,474.7 | 115,917.29 | | | |
| Consumed: Estimate | 41,704.9 | 1,751,605.0 | 3,817,733.7 | 131,846.47 | | | |
| Actual | (41,152.1) | (1,728,390.0) | (3,684,949.2) | (113,965.9) | 89.5445 | | |
| Balance Per G/L 01/31/2019 | 55,302.9 | 2,322,723 | 4,534,997.09 | 186,492.48 | 82.0028 | | |
| Purchases | | xxxxxxxxxxxxxxx | xxxxxxxxxxxxxxx | xxxxxxxxxxxxxxx | | | |
| Transfer out | | xxxxxxxxxxxxxxx | xxxxxxxxxxxxxxx | xxxxxxxxxxxxxxx | | | |
| Transfer in | 30,841.2 | 1,295,331.0 | 2,525,938.4 | 87,693.9 | 81.9014 | | |
| Consumed | (46,616.5) | (1,957,892.0) | (3,849,571.2) | (147,374.07) | 82.5796 | 3.1614 | 85.7410 |
| Balance @ 02/28/2019 | 39,527.7 | 1,660,162 | 3,211,364.24 | 126,812.32 | 81.2435 | | |
| Inventory From Offsite/Transfers | 5,235.6 | 219,896.6 | 442,424.7 | 15,184.91 | | | |
| Est'd Inventory Addition | 0.0 | 0 | 0.0 | 0.00 | | | |
| Fuel Balance @ Avg Price | 44,763.3 | 1,880,059 | 3,653,788.91 | 141,997.23 | 81.6247 | | |
| Reverse Fuel Balance | | xxxxxxxxxxxxxxx | (3,653,788.9) | xxxxxxxxxxxxxxx | | | |
| Fuel Balance @ Avg Price | | xxxxxxxxxxxxxxx | 3,694,714.1 | xxxxxxxxxxxxxxx | | | |
| Total @ 03/01/2019 Avg Price | 44,763.3 | 1,880,059 | 3,694,714.05 | 141,997.23 | 82.5389 | | |

Weighted Avg Cost/BBL by Location 81.6247 3.1722

Weighted Avg Cost/BBL @ Avg Cost 82.5389 3.1722

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
February 2019

PUNA CT-3

| HS Diesel | BBL | GALLONS | COST EXCLUD LT | LAND TRANSP | COST PER BARREL EXCL LT | BARREL LT | TOTAL |
|------------------------------|-----------|--------------------|--------------------|--------------------|----------------------------|--------------|---------|
| Balance at 01/31/2019 | 3,468.1 | 145,659.0 | 310,169.1 | 2,080.4 | | | |
| Less: Est'd Inven Addition | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| Purchases: Estimate | | XXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXX | | | |
| Actual | | XXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXX | | | |
| Transfers out: Estimate | | XXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXX | | | |
| Actual | | XXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXX | | | |
| Transfers in: Estimate | (1,958.8) | (82,269.0) | (164,426.9) | (2,171.9) | | | |
| Actual | 2,799.5 | 117,580.0 | 257,193.4 | 3,349.0 | | | |
| Consumed: Estimate | 3,141.8 | 131,955.0 | 287,604.3 | 3,636.7 | | | |
| Actual | (3,543.0) | (148,804.0) | (370,102.0) | (4,101.1) | | | |
| Balance Per G/L 01/31/2019 | 3,907.6 | 164,121 | 320,437.80 | 2,793.15 | | | |
| Purchases | | XXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXX | | | |
| Transfer out | | XXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXX | | | |
| Transfer in | 4,842.2 | 203,372.0 | 405,222.2 | 5,369.0 | 83.6857 | | |
| Consumed | (7,396.1) | (310,636) | (610,766.79) | (4,436.75) | 82.5796 | 0.5999 | 83.1795 |
| Balance @ 02/28/2019 | 1,353.7 | 56,857 | 114,893.23 | 3,725.42 | 84.8711 | | |
| Inven From Offsite/Transfers | 0.0 | 0 | 0.00 | 0.00 | | | |
| Est'd Inventory Addition | 0.0 | 0 | 0.00 | 0.00 | | | |
| Fuel Balance @ 02/28/2019 | 5,581.6 | 234,427 | 472,158.58 | 8,413.27 | 84.5920 | | |
| Reverse Fuel Balance | | XXXXXXXXXXXXXXXXXX | (472,158.58) | XXXXXXXXXXXXXXXXXX | | | |
| Fuel Balance @ Avg Price | | XXXXXXXXXXXXXXXXXX | 460,699.19 | XXXXXXXXXXXXXXXXXX | | | |
| Total @ 03/01/2019 Avg Price | 5,581.6 | 234,427 | 460,699.19 | 8,413.27 | 82.5389 | | |

Weighted Avg Cost/BBL by Location

84.5920 1.5073

Weighted Avg Cost/BBL @ Avg Cost

82.5389 1.5073

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
February 2019

TOTAL HILO HS-DIESEL

| HS Diesel | BBL | GALLONS | COST EXCLUDE LT | LAND TRANSP | COST PER EXCL LT | BARREL LT | TOTAL |
|-----------------------------------|---------|--------------|--------------------------|----------------|---------------------|--------------|---------|
| Balance at 01/31/2019 | 1750.1 | 73,505 | 165,501 | 1,682 | | | |
| Less: Est'd Inven Addition | 0.0 | 0 | 0 | 0 | | | |
| Purchases: Estimate | | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | | | |
| Actual | | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | | | |
| Transfers out: Estimate | | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | | | |
| Actual | | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | | | |
| Transfers in: Estimate | -191.0 | -8024.0 | -16062.6 | 0.0 | | | |
| Actual | 191.0 | 8024.0 | 16031.0 | 0.0 | | | |
| Consumed: Estimate | 159.9 | 6717.0 | 14640.1 | 175.6 | | | |
| Actual | -154.2 | -6476.0 | -36123.9 | 24.8 | | | |
| Balance Per G/L 01/31/2019 | 1755.9 | 73,746 | 143,985.27 | 1,882.73 | 82.0028 | | |
| Purchases | | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | | | |
| Transfer out | | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | | | |
| Transfer in | 378.9 | 15915.0 | 31950.0 | 370.8 | #DIV/0! | | |
| Consumed | -559.0 | -23479.0 | -46164.0 | -537.4 | 82.5796 | 0.9612 | 83.5409 |
| Balance @ 02/28/2019 | 1,575.8 | 66,182 | 129,771.33 | 1,716.19 | 82.3547 | | |
| Inven From Offsite/Transfers | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| Est'd Inventory Addition | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| Fuel Balance @ Avg Price | 1,575.8 | 66,182 | 129,771.33 | 1,716.19 | 82.3547 | | |
| Reverse Fuel Balance | | XXXXXXXXXXXX | XXXXXXXXXXXX -129,771.33 | XXXXXXXXXXXX | | | |
| Fuel Balance @ Avg Price | | XXXXXXXXXXXX | XXXXXXXXXXXX 130,061.67 | XXXXXXXXXXXX | | | |
| Total @ 03/01/2019 Avg Price | 1,575.8 | 66,182 | 130,061.67 | 1,716.19 | 82.5389 | | |
| Weighted Avg Cost/BBL by Location | | | 82.3547 | 1.0891 | | | |
| Weighted Avg Cost/BBL @ Avg Cost | | | 82.5389 | 1.0891 | | | |

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
February 2019

KEAHOLE DIESEL

| ULSD | BBL | GALLONS | COST EXCLUDE LT | LAND TRANSP | COST PER BARREL EXCLUD LT | LT | TOTAL |
|----------------------------------|--------------|--------------|--------------------|----------------|------------------------------|--------|---------|
| Balance at 01/31/2019 | 2,194.6 | 92,173 | 216,148.10 | 6,991.14 | | | |
| Less: Est'd Inventory Addition | 0.0 | | | | | | |
| Purchases: Estimate | (379.2) | (15,928) | (33,383.31) | (1,078.33) | | | |
| Actual | 189.2 | 7,948 | 16,446.71 | 0.00 | | | |
| Transfers out: Estimate | | xxxxxxxxxxxx | xxxxxxxxxxxx | xxxxxxxxxxxx | | | |
| Actual | | xxxxxxxxxxxx | xxxxxxxxxxxx | xxxxxxxxxxxx | | | |
| Transfers in: Estimate | | 12 | 0.00 | 0.81 | | | |
| Actual | | 14 | 0.00 | 538.08 | | | |
| Consumed: Estimate | 131.9 | 5,539 | 12,186.29 | 426.10 | | | |
| Actual | (216.2) | (9,081) | (38,468.13) | (400.21) | 177.9167 | | |
| Balance Per G/L 01/31/2019 | 1,920.9 | 80,677 | 172,929.66 | 6,477.59 | 90.0262 | | |
| Purchases | 189.4 | 7,953 | 16,701.30 | 538.42 | 0.0000 | | |
| Estimated Purchases | 190.0 | 7,980 | 16,758.00 | 540.25 | | | |
| Transfer in | 0.6 | 26 | 0.00 | 1.76 | 0.00 | | |
| Consumed | (98.7) | (4,146) | (9,238.50) | (314.47) | 93.5883 | 3.1856 | 96.7739 |
| Balance @ 02/28/2019 | 2,202.1 | 92,490 | 197,150.45 | 7,243.55 | 89.5266 | | |
| Inventory From Offsite/Transfers | 0.0 | 0 | 0.00 | 0.00 | | | |
| Est'd Inventory Addition | 0.0 | 0 | 0.00 | 0.00 | | | |
| Fuel Balance @ Avg Price | 2,202.1 | 92,490 | 197,150.45 | 7,243.55 | 89.5266 | | |
| Reverse Fuel Balance | xxxxxxxxxxxx | xxxxxxxxxxxx | (197,150.45) | xxxxxxxxxxxx | | | |
| Fuel Balance @ Avg Price | xxxxxxxxxxxx | xxxxxxxxxxxx | 201,981.97 | xxxxxxxxxxxx | | | |
| Total @ 03/01/2019 Avg Price | 2,202.1 | 92,490 | 201,981.97 | 7,243.55 | 91.7206 | | |

Weighted Avg Cost/BBL by Location

89.5266 3.2893

Weighted Avg Cost/BBL @ Avg Cost

91.7206 3.2893

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
February 2019

WAIMEA DIESEL

| ULSD | BBL | GALLONS | COST EXCLUDE LT | LAND TRANSP | COST PER BARREL | LT | TOTAL |
|------------------------------|--------------|--------------|--------------------|----------------|-----------------|--------|---------|
| Balance at 01/31/2019 | 1,753.5 | 73,648.0 | 153,653.3 | 5,806.57 | | | |
| Less: Est'd Inven Addition | 0.0 | 0.0 | 0.00 | 0.00 | | | |
| Purchases: Estimate | | (15,927) | (33,381.22) | (898.28) | | | |
| Actual | | 7,947.0 | 16,444.6 | 0.00 | | | |
| Transfers out: Estimate | | xxxxxxxxxxxx | xxxxxxxxxxxx | xxxxxxxxxxxx | | | |
| Actual | | xxxxxxxxxxxx | xxxxxxxxxxxx | xxxxxxxxxxxx | | | |
| Transfers in: Estimate | (2.0) | (83) | 0.00 | 0.00 | | | |
| Actual | 12.5 | 527 | 0.00 | 448.21 | | | |
| Consumed: Estimate | 106.7 | 4,480 | 9,856.39 | 245.65 | | | |
| Actual | (99.8) | (4,190) | (4,241.61) | (229.75) | | | |
| Balance Per G/L 01/31/2019 | 1,581.0 | 66,402 | 142,331.45 | 5,372.40 | 90.0262 | | |
| ULSD Purchases | 0.0 | 0 | 0.00 | 0.00 | #DIV/0! | | |
| Estimated Purchases | 190.0 | 7,980 | 16,758.00 | 450.07 | | | |
| Transfer in | xxxxxxxxxxxx | (705) | 0.00 | 0.00 | #DIV/0! | | |
| Consumed | (311.6) | (13,089) | (29,166.13) | (1,031.97) | 93.5883 | 3.3114 | 96.8997 |
| Balance @ 02/28/2019 | 1,442.6 | 60,588 | 129,923.32 | 4,790.51 | 90.0637 | | |
| Inven From Offsite/Transfers | 0.0 | 0 | 0.00 | 0.00 | | | |
| Est'd Inventory Addition | 0.0 | 0 | 0.00 | 0.00 | | | |
| Fuel Balance @ Avg Price | 1,442.6 | 60,588 | 129,923.32 | 4,790.51 | 90.0637 | | |
| Reverse Fuel Balance | xxxxxxxxxxxx | xxxxxxxxxxxx | (129,923.32) | xxxxxxxxxxxx | | | |
| Fuel Balance @ Avg Price | xxxxxxxxxxxx | xxxxxxxxxxxx | 132,313.59 | xxxxxxxxxxxx | | | |
| Total @ 03/01/2019 Avg Price | 1,442.6 | 60,588 | 132,313.59 | 4,790.51 | 91.7206 | | |

Weighted Avg Cost/BBL by Location

90.0637 3.3208

Weighted Avg Cost/BBL @ Avg Cost

91.7206 3.3208

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
February 2019

KANOELEHUA DIESEL

| ULSD | BBL | GALLONS | COST EXCLUDE LT | LAND TRANSP | | |
|----------------------------------|---------|----------|--------------------|----------------|-------------|--------|
| Balance at 01/31/2019 | 1,462.2 | 61,412.0 | 133,879.6 | 1,577.5 | | |
| Less: Est'd Inventory Addition | 0.0 | 0 | 0.00 | 0.00 | | |
| Purchases: Estimate | 0.0 | 0 | 0.00 | 0.00 | | |
| Actual | 4.1 | 173 | 357.39 | 0.00 | | |
| Transfers out: Estimate | | | x | x | | x |
| Actual | | | x | x | | x |
| Transfers in: Estimate | | 0 | 0.00 | 0.00 | | |
| Actual | | (97) | 0.00 | 188.26 | | |
| Consumed: Estimate | 21.9 | 920 | 967.04 | 26.58 | | |
| Actual | (23.6) | (990) | (3,555.66) | (224.32) | | |
| Balance Per G/L 01/31/2019 | 1,462.3 | 61,418 | 131,648.35 | 1,567.99 | | |
| ULSD Purchases | 0 | 0 | 0.00 | 0.00 | #DIV/0! | |
| Estimated Purchases | 0 | - | - | - | | |
| Transfer in | 0 | 0 | 0.00 | 0.00 | | |
| Consumed | (118.9) | (4,994) | (967.04) | (26.58) | 93.58831981 | 1.0788 |
| Balance @ 02/28/2019 | 1,343.4 | 56,424 | 130,681.31 | 1,541.41 | | |
| Inventory From Offsite/Transfers | 0.0 | 0 | 0.00 | 0.00 | | |
| Est'd Inventory Addition | 0.0 | 0 | 0.00 | 0.00 | | |
| Fuel Balance @ Avg Price | 1,343.4 | 56,424 | 130,681.31 | 1,541.41 | | |
| Reverse Fuel Balance | x | x | (130,681.31) | x | | |
| Fuel Balance @ Avg Price | x | x | 123,220.14 | x | | |
| Total @ 03/01/2019 Avg Price | 1,343.4 | 56,424 | 123,220.14 | 1,541.41 | | |

Weighted Avg Cost/BBL by Location

97.2745 1.1474

Weighted Avg Cost/BBL @ Avg Cost

91.7206 1.1474

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
February 2019

DISPERSED GENERATION

| | BBL | GALLONS | COST | COST/BBL |
|------------------------------|------------|------------|-------------|----------|
| Balance at 01/31/2019 | 115.4 | 4,847 | 13,461.37 | |
| Less: Est'd Inven Addition | 0.0 | XXXXXXXXXX | XXXXXXXXXX | |
| Purchases: Estimate | 0.0 | 0 | 0.00 | |
| Actual | 10.1 | 425 | 879.70 | |
| Consumed: Estimate | 17.5 | 735 | 1,617.06 | |
| Actual | (12.5) | (525) | (4,207.56) | |
| | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | |
| | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | |
| | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | |
| | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | |
| Balance Per G/L 01/31/2019 | 130.52 | 5,482 | 11,750.57 | 90.0263 |
| Purchases | 0.0 | 0 | 0.00 | 0.0000 |
| Transfer out | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | |
| Transfer in | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | |
| Consumed | (9.8) | (410) | (913.60) | 93.5883 |
| Balance @ 02/28/2019 | 120.8 | 5,072 | 10,836.97 | 89.7383 |
| Est'd Inventory Addition | 0.0 | 0 | 0.00 | |
| Fuel Balance @ 02/28/2019 | 120.8 | 5,072 | 10,836.97 | |
| Reverse Fuel Balance | XXXXXXXXXX | XXXXXXXXXX | (10,836.97) | xxxx |
| Fuel Balance @ Avg Price | XXXXXXXXXX | XXXXXXXXXX | 11,076.36 | xxxx |
| Total @ 03/01/2019 Avg Price | 120.8 | 5,072 | 11,076.36 | 91.7206 |

HAWAII ELECTRIC LIGHT COMPANY, INC.
CONTRACT PRICES EFFECTIVE February 1, 2019

TYPE OF OIL BURNED

| INDUSTRIAL * | <u>Hilo Industrial</u> | | <u>Puna Industrial</u> | |
|----------------------|------------------------|---------------|------------------------|---------------|
| | <u>¢/MBTU</u> | <u>\$/BBL</u> | <u>¢/MBTU</u> | <u>\$/BBL</u> |
| Tax ¹ | 0.00 | 0.0000 | 0.00 | 0.0000 |
| Ocean Transportation | 0.00 | 0.0000 | 0.00 | 0.0000 |
| Storage | 0.00 | 0.0000 | 0.00 | 0.0000 |
| Wharfage | 0.00 | 0.0000 | 0.00 | 0.0000 |
| Fees ² | 0.83 | 0.0525 | 0.83 | 0.0525 |
| | <u>Hilo Diesel</u> | | <u>Waimea Diesel</u> | |
| DIESEL * | <u>¢/MBTU</u> | <u>\$/BBL</u> | <u>¢/MBTU</u> | <u>\$/BBL</u> |
| Tax ¹ | 0.00 | 0.0000 | 0.00 | 0.0000 |
| Ocean Transportation | 0.00 | 0.0000 | 0.00 | 0.0000 |
| Storage | 0.00 | 0.0000 | 0.00 | 0.0000 |
| Wharfage | 0.00 | 0.0000 | 0.00 | 0.0000 |
| Fees ² | 1.79 | 0.1050 | 1.79 | 0.1050 |
| | <u>Kona Diesel</u> | | <u>CT3 Diesel</u> | |
| | <u>¢/MBTU</u> | <u>\$/BBL</u> | <u>¢/MBTU</u> | <u>\$/BBL</u> |
| Tax ¹ | 0.00 | 0.0000 | 0.00 | 0.0000 |
| Ocean Transportation | 0.00 | 0.0000 | 0.00 | 0.0000 |
| Storage | 0.00 | 0.0000 | 0.00 | 0.0000 |
| Wharfage | 0.00 | 0.0000 | 0.00 | 0.0000 |
| Fees ² | 1.79 | 0.1050 | 1.79 | 0.1050 |
| | <u>ULSD</u> | | | |
| ULSD ** | <u>¢/MBTU</u> | <u>\$/BBL</u> | | |
| Tax ¹ | 13.19 | 0.0000 | | |
| Ocean Transportation | 0.00 | 0.0000 | | |
| Storage | 0.00 | 0.0000 | | |
| Wharfage | 0.00 | 0.0000 | | |
| Fees ² | 1.83 | 0.1050 | | |

¹ Tax includes HGET, Hawaii Use Tax, Liquid Fuel Tax, LUST Tax and Environmental Response Tax.

² Fees include Custom Duty and Fed Oil Spill Recovery

inventory, contract prices for the current month are being provided.
 Contract prices are considered accurate pending actual delivery of fuel.

* Land Transportation Costs are shown in Attachment 3, Sheet 1.

** ULSD includes Waimea, Kanoiehua, and Keahole.

Reference: Decision and Order No. 16134, Docket No. 96-0040.

Hawaii Electric Light Company, Inc.
PURCHASED POWER PRICES FOR March 1, 2019

| | | <u>March 1, 2019</u> <u>(¢/kWh)</u> | <u>Floor Rates</u> <u>(¢/kWh)</u> |
|------------------|------------|--|--------------------------------------|
| PGV (25 MW) | - on peak | 14.640 | 6.560 |
| PGV (22 MW) | - off peak | 13.279 | 5.430 |
| WAILUKU HYDRO | - on peak | 14.640 | 7.240 |
| | off peak | 13.279 | 5.970 |
| Other: (<100 KW) | Sch Q Rate | 13.720 | |
| | | <u>March 1, 2019</u> <u>(¢/kWh)</u> | <u>Floor Rates</u> <u>(¢/kWh)</u> |
| HEP | | 12.927 | |
| PGV Addtl 5 MW | - on peak | 13.0500 | 0.0000 |
| | - off peak | 13.0500 | 0.0000 |
| PGV Addtl 8 MW | - on peak | 9.9500 | 0.0000 |
| | - off peak | 6.6400 | 0.0000 |

Hawaii Electric Light Company, Inc.
Energy Cost Reconciliation Adjustment
March 1, 2019

| <u>Line No.</u> | <u>Description</u> | <u>Amount</u> |
|-----------------|--|---------------|
| 1 | Amount to be (returned) or collected | (\$2,598,900) |
| 2 | Monthly Amount ($\frac{1}{3}$ x Line 1) | (\$866,300) |
| 3 | Revenue Tax Divisor | 0.91115 |
| 4 | Total (Line 2 / Line 3) | (\$950,776) |
| 5 | Estimated MWh Sales (March 1, 2019) | 87,718 mwh |
| 6 | Adjustment (Line 4 / Line 5) | (1.084) ¢/kwh |

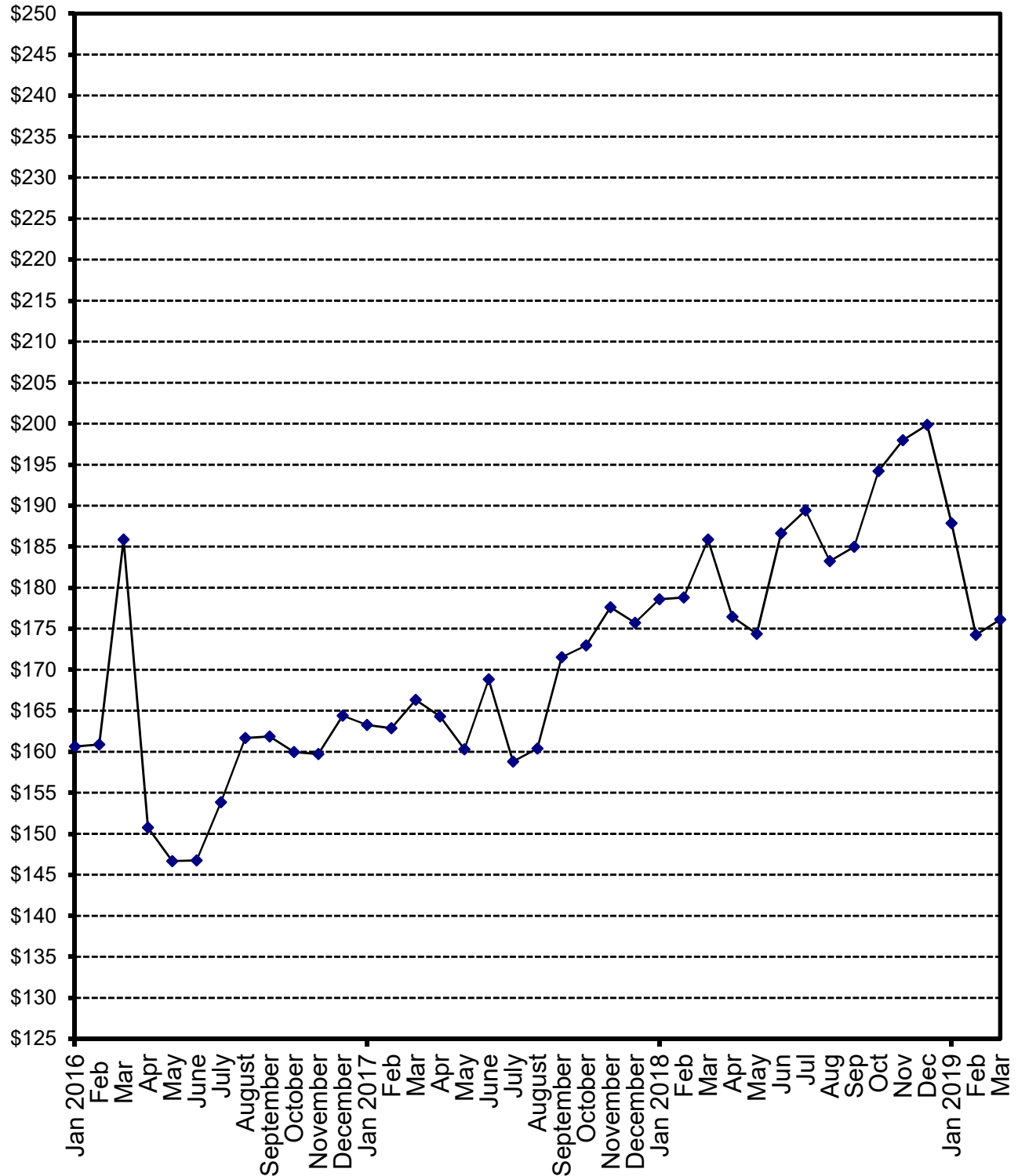
HAWAII ELECTRIC LIGHT COMPANY, INC.
2019 Cumulative Reconciliation Balance

| <u>Month</u> | (1) <u>YTD FOA Reconciliation</u> | <u>Qtr</u> | (2) <u>FOA Rec Adjust Variance</u> | (3) <u>FOA Rec Less Variance</u> | (4) <u>Try to Collect</u> | (5) <u>Actual Collect</u> | (6) <u>Month-end Cumulative Balance</u> |
|--------------|--------------------------------------|------------|---------------------------------------|-------------------------------------|------------------------------|------------------------------|--|
| January 18 | | | | | (238,067) | (242,224) | 1,462 |
| February | 825,100 | [4] | (29,783) | 854,883 | (275,033) | (279,869) | 576,476 |
| March | | | | | (275,033) | (283,895) | 292,581 |
| April | | | | | (275,033) | (291,829) | 752 |
| May | 1,153,900 | (1) | (17,855) | 1,171,755 | (384,633) | (398,709) | 773,798 |
| June | | | | | (384,633) | (387,715) | 386,083 |
| July | | | | | (384,633) | (399,033) | (12,950) |
| August | 699,900 | [2] | (33,954) | 733,854 | (233,300) | (244,658) | 476,246 |
| September | | | | | (233,300) | (240,110) | 236,136 |
| October | | | | | (233,300) | (241,346) | (5,210) |
| November | 917,000 | [3] | (32,568) | 949,568 | (305,667) | (309,251) | 635,107 |
| December 18 | | | | | (305,667) | (302,091) | 333,016 |
| January 19 | | | | | (305,667) | (300,243) | 32,773 |
| February | 2,598,900 | [4] | (8,054) | 2,606,954 | (866,300) | | |
| March | | | | | (866,300) | | |

NOTES:

- Col(1): Quarterly FOA reconciliation amounts. (Refer to Attachment 6)
A positive number is an over-collection. A negative number is an under-collection.
- Col(2): 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))

Hawaii Electric Light Company, Inc. Residential Bill at 500 KWH/Month Consumption



**HAWAII ELECTRIC LIGHT COMPANY, INC.
FUEL OIL ADJUSTMENT FACTOR DATA**

| <u>EFFECTIVE DATE</u> | <u>FUEL FACTOR</u> <u>CENTS / KWH</u> | | |
|-----------------------|---|--|------------------|
| | <u>RESIDENTIAL &</u> <u>COMMERCIAL</u> | <u>RESIDENTIAL BILL (\$)</u> <u>@ 500 KWH</u> | <u>@ 600 KWH</u> |
| January 1, 2015 | 2.369 | 189.62 | 227.20 |
| February 1, 2015 | 0.485 | 179.22 | 214.71 |
| March 1, 2015 | -0.519 | 174.32 | 208.85 |
| April 1, 2015 | -0.990 | 170.37 | 204.10 |
| May 1, 2015 | -0.420 | 175.10 | 209.79 |
| June 8, 2015 | -0.579 | 175.16 | 209.85 |
| July 1, 2015 | 0.264 | 178.14 | 213.38 |
| August 1, 2015 | -0.586 | 174.16 | 208.61 |
| September 1, 2015 | -0.927 | 172.43 | 206.54 |
| October 1, 2015 | -1.671 | 168.73 | 202.10 |
| November 1, 2015 | -2.727 | 163.20 | 195.47 |
| December 1, 2015 | -2.859 | 162.59 | 194.74 |
| January 1, 2016 | -3.223 | 160.63 | 192.41 |
| February 1, 2016 | -2.962 | 160.87 | 192.69 |
| March 1, 2016 | -4.311 | 154.26 | 184.76 |
| April 1, 2016 | -4.715 | 150.76 | 180.57 |
| May 1, 2016 | -5.554 | 146.66 | 175.64 |
| June 1, 2016 | -5.546 | 146.74 | 175.74 |
| July 1, 2016 | -4.248 | 153.85 | 184.31 |
| August 1, 2016 | -3.094 | 161.67 | 193.69 |
| September 1, 2016 | -3.040 | 161.85 | 193.90 |
| October 1, 2016 | -3.427 | 159.97 | 191.65 |
| November 1, 2016 | -3.514 | 159.72 | 191.35 |
| December 1, 2016 | -2.584 | 164.41 | 196.97 |
| January 1, 2017 | -2.842 | 163.27 | 195.58 |
| February 1, 2017 | -2.956 | 162.87 | 195.09 |
| March 1, 2017 | -2.274 | 166.31 | 199.24 |
| April 1, 2017 | -2.425 | 164.31 | 196.83 |
| May 1, 2017 | -3.035 | 160.30 | 192.02 |
| June 1, 2017 | -1.343 | 168.82 | 202.25 |
| July 1, 2017 | -3.220 | 158.79 | 190.22 |
| August 1, 2017 | -3.643 | 160.39 | 192.15 |
| September 1, 2017 | -2.447 | 171.52 | 205.50 |
| October 1, 2017 | -2.131 | 172.97 | 207.23 |
| November 1, 2017 | -0.885 | 177.60 | 212.80 |
| December 1, 2017 | -1.405 | 175.02 | 209.69 |
| January 1, 2018 | -0.723 | 178.59 | 213.95 |
| February 1, 2018 | -0.579 | 178.81 | 214.22 |
| March 1, 2018 | 0.816 | 185.87 | 222.68 |
| April 1, 2018 | -0.912 | 176.46 | 211.39 |
| May 1, 2018 | -0.452 | 174.38 | 208.90 |
| June 1, 2018 | 2.301 | 186.65 | 223.63 |
| July 1, 2018 | 2.831 | 189.43 | 226.97 |
| August 1, 2018 | 1.665 | 183.25 | 219.55 |
| September 1, 2018 | 2.027 | 184.98 | 221.62 |
| October 1, 2018 | 8.359 | 194.21 | 232.50 |
| November 1, 2018 | 8.913 | 197.99 | 237.04 |
| December 1, 2018 | 9.292 | 199.86 | 239.29 |
| January 1, 2019 | 6.867 | 187.86 | 224.86 |
| February 1, 2019 | 14.631 | 174.25 | 208.53 |
| March 1, 2019 | 14.976 | 176.1 | 210.75 |

**HAWAII ELECTRIC LIGHT COMPANY, INC.
RESIDENTIAL SURCHARGE DATA**

| EFFECTIVE DATE | DESCRIPTION OF SURCHARGE | RATE |
|---------------------------|---|-------------------------------|
| 04/09/12 | FINAL RATE INCREASE (1.28%), DOCKET NO. 2009-0164 (2010 TEST YEAR) | |
| 1/1/2016-1/31/2016 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.3260 CENTS/KWH |
| 1/1/2016-06/30/16 | GREEN INFRASTRUCTURE FEE | 1.3000 DOLLARS/MONTH |
| 2/1/2016 - 2/29/16 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.1114 CENTS/KWH |
| 3/1/2016 - 3/31/16 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.1401 CENTS/KWH |
| 4/1/2016 - 4/30/16 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.1228 CENTS/KWH |
| 4/1/2016 - 4/30/16 | SOLARSAVER ADJUSTMENT | -0.2779 CENTS/KWH |
| 5/1/2016 - 5/31/16 | PURCHASED POWER ADJUSTMENT CLAUSE | 1.8623 CENTS/KWH |
| 5/1/2016 | SOLARSAVER ADJUSTMENT | 0.0000 CENTS/KWH |
| 6/1/2016 - 6/30/16 | PURCHASED POWER ADJUSTMENT CLAUSE | 1.8442 CENTS/KWH |
| 6/1/2016 | RBA RATE ADJUSTMENT | 1.4241 CENTS/KWH |
| 7/1/2016-7/31/16 | PURCHASED POWER ADJUSTMENT CLAUSE | 1.8909 CENTS/KWH |
| 7/1/2016 | GREEN INFRASTRUCTURE FEE | 1.1300 DOLLARS/MONTH |
| 7/1/2016 | RESIDENTIAL PBF SURCHARGE ADJUSTMENT | 0.5865 CENTS/KWH |
| 8/1/2016-8/31/16 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.3000 CENTS/KWH |
| 9/1/2016-9/30/16 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.2824 CENTS/KWH |
| 10/1/2016-10/31/16 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.2930 CENTS/KWH |
| 11/1/2016-11/30/16 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.3298 CENTS/KWH |
| 12/1/2016-12/31/16 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.3371 CENTS/KWH |
| 1/1/2017-1/31/2017 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.3400 CENTS/KWH |
| 1/1/2017 | GREEN INFRASTRUCTURE FEE | 1.2700 DOLLARS/MONTH |
| 2/1/2017 - 2/28/17 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.3737 CENTS/KWH |
| 3/1/2017 - 3/31/17 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.3809 CENTS/KWH |
| 4/1/2017-4/30/17 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.3781 CENTS/KWH |
| 4/1/2017-4/30/17 | SOLARSAVER ADJUSTMENT | -0.2462 CENTS/KWH |
| 5/1/2017-5/31/17 | PURCHASED POWER ADJUSTMENT CLAUSE | 1.9396 CENTS/KWH |
| 5/1/2017 | SOLARSAVER ADJUSTMENT | 0.0000 CENTS/KWH |
| 6/1/2017-6/30/17 | PURCHASED POWER ADJUSTMENT CLAUSE | 1.9225 CENTS/KWH |
| 6/1/2017 | RBA RATE ADJUSTMENT | 1.4533 CENTS/KWH |
| 7/1/2017 - 7/31/2017 | PURCHASED POWER ADJUSTMENT CLAUSE | 1.9710 CENTS/KWH |
| 7/1/2017- 12/31/17 | GREEN INFRASTRUCTURE FEE | 1.1800 DOLLARS/MONTH |
| 7/1/2017 | RESIDENTIAL PBF SURCHARGE ADJUSTMENT | 0.4244 CENTS/KWH |
| 8/1/2017-8/31/17 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.7161 CENTS/KWH |
| 9/1/2017-9/30/17 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.7515 CENTS/KWH |
| 8/31/2017-4/30/18 | INTERIM RATE INCREASE 2016 | 5.8800 PERCENT ON BASE |
| 8/31/2017 | RBA RATE ADJUSTMENT | 0.6313 CENTS/KWH |
| 10/1/2017 - 10/31/17 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.7257 CENTS/KWH |
| 11/1/2017 - 11/30/17 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.4067 CENTS/KWH |
| 12/1/2017 - 12/31/17 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.4090 CENTS/KWH |
| 1/1/2018 - 1/31/18 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.4105 CENTS/KWH |
| 1/1/18-6/30/18 | GREEN INFRASTRUCTURE FEE | 1.3400 DOLLARS/MONTH |
| 2/1/18-2/28/18 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.3101 CENTS/KWH |
| 3/1/18 - 3/31/18 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.3258 CENTS/KWH |
| 04/1/18-04/30/18 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.3184 CENTS/KWH |
| 04/1/18-04/30/18 | SOLARSAVER ADJUSTMENT | -0.1464 CENTS/KWH |
| 05/1/18-05/31/18 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.3395 CENTS/KWH |
| 05/1/18-05/31/18 | SOLARSAVER ADJUSTMENT | 0.0000 CENTS/KWH |
| 5/1/2018 | INTERIM RATE INCREASE 2016 | 2.5000 PERCENT ON BASE |
| 06/01/18-06/30/18 | PURCHASED POWER ADJUSTMENT CLAUSE | 1.6729 CENTS/KWH |
| 6/1/2018 | RBA RATE ADJUSTMENT | 1.0006 CENTS/KWH |
| 07/01/18-07/31/18 | PURCHASED POWER ADJUSTMENT CLAUSE | 1.6811 CENTS/KWH |
| 7/1/2018- 12/31/18 | GREEN INFRASTRUCTURE FEE | 1.2100 DOLLARS/MONTH |
| 7/1/2018 | RESIDENTIAL PBF SURCHARGE ADJUSTMENT | 0.4658 CENTS/KWH |
| 08/01/18-08/31/18 | PURCHASED POWER ADJUSTMENT CLAUSE | 1.6110 CENTS/KWH |
| 09/01/18-09/30/18 | PURCHASED POWER ADJUSTMENT CLAUSE | 1.5950 CENTS/KWH |
| 10/01/18-10/31/18 | PURCHASED POWER ADJUSTMENT CLAUSE | 1.8602 CENTS/KWH |
| 10/1/2018 | INTERIM RATE INCREASE 2016 | 0.0000 PERCENT ON BASE |
| 10/1/2018 | FINAL RATE INCREASE (TY 2016) 0.53% EFFECTIVE 10/01/18, DOCKET NO. 2015-0170 | |
| 11/1/2018-11/30/18 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.0617 CENTS/KWH |
| 12/1/2018-12/31/18 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.0577 CENTS/KWH |
| 1/1/2019-1/31/19 | PURCHASED POWER ADJUSTMENT CLAUSE | 2.0548 CENTS/KWH |
| 1/1/2019- 06/30/19 | GREEN INFRASTRUCTURE FEE | 1.3500 DOLLARS/MONTH |
| 2/1/2019-2/28/19 | PURCHASED POWER ADJUSTMENT CLAUSE | 1.8113 CENTS/KWH |
| 2/1/2019-2/28/19 | PURCHASED POWER ADJUSTMENT CLAUSE | 1.8372 CENTS/KWH |

**Base charges include customer charge, demand charge, energy charge, power factor adjustment, voltage discount, and minimum charge.

Calculations of the Average Residential Customer Bill

| | Rate | | Charge (\$) at 500 Kwh | | | |
|--|-----------------|----------|------------------------|----------|------------|--------|
| | 02/01/19 | 03/01/19 | 02/01/19 | 03/01/19 | Difference | |
| Base Rates | effective date: | 2/1/2019 | 2/1/2019 | | | |
| Base Fuel Energy Charge | ¢/kwh | - | - | \$0.00 | \$0.00 | \$0.00 |
| Non-Fuel Energy Charge | ¢/kwh | | | \$71.85 | \$71.85 | \$0.00 |
| First 300 kWh per month | ¢/kwh | 13.0289 | 13.0289 | \$39.09 | \$39.09 | \$0.00 |
| Next 700 kWh per month | ¢/kwh | 16.3807 | 16.3807 | \$32.76 | \$32.76 | \$0.00 |
| Customer Charge | \$ | 11.50 | 11.50 | \$11.50 | \$11.50 | \$0.00 |
| Total Base Charges | | | | \$83.35 | \$83.35 | \$0.00 |
| Interim Rate Increase 2016 TY | % on base | 0.0000% | 0.0000% | \$0.00 | \$0.00 | \$0.00 |
| RBA Rate Adjustment | ¢/kwh | 1.0006 | 1.0006 | \$5.00 | \$5.00 | \$0.00 |
| Purchased Power Adj. Clause | ¢/kwh | 1.8113 | 1.8372 | \$9.06 | \$9.19 | \$0.13 |
| PBF Surcharge | ¢/kwh | 0.4658 | 0.4658 | \$2.33 | \$2.33 | \$0.00 |
| DSM Adjustment | ¢/kwh | 0.0000 | 0.0000 | \$0.00 | \$0.00 | \$0.00 |
| SolarSaver Adjustment | ¢/kwh | 0.0000 | 0.0000 | \$0.00 | \$0.00 | \$0.00 |
| Energy Cost Recovery | ¢/kwh | 14.6310 | 14.9760 | \$73.16 | \$74.88 | \$1.72 |
| Green Infrastructure Fee | \$ | 1.3500 | 1.3500 | \$1.35 | \$1.35 | \$0.00 |
| Avg Residential Bill at 500 kwh | | | | \$174.25 | \$176.10 | |

| | |
|-----------------------|--------|
| Increase (Decrease -) | \$1.85 |
| % Change | 1.06% |

| | Rate | | Charge (\$) at 600 Kwh | | | |
|--|-----------------|----------|------------------------|----------|------------|--------|
| | 02/01/19 | 03/01/19 | 02/01/19 | 03/01/19 | Difference | |
| Base Rates | effective date: | 2/1/2019 | 2/1/2019 | | | |
| Base Fuel/Energy Charge | ¢/kwh | - | - | \$0.00 | \$0.00 | \$0.00 |
| Non-Fuel Energy Charge | ¢/kwh | | | \$88.23 | \$88.23 | \$0.00 |
| First 300 kWh per month | ¢/kwh | 13.0289 | 13.0289 | \$39.09 | \$39.09 | \$0.00 |
| Next 700 kWh per month | ¢/kwh | 16.3807 | 16.3807 | \$49.14 | \$49.14 | \$0.00 |
| Customer Charge | \$ | 11.50 | 11.50 | \$11.50 | \$11.50 | \$0.00 |
| Total Base Charges | | | | \$99.73 | \$99.73 | \$0.00 |
| Interim Rate Increase 2016 TY | % on base | 0.0000% | 0.0000% | \$0.00 | \$0.00 | \$0.00 |
| RBA Rate Adjustment | ¢/kwh | 1.0006 | 1.0006 | \$6.00 | \$6.00 | \$0.00 |
| Purchased Power Adj. Clause | ¢/kwh | 1.8113 | 1.8372 | \$10.87 | \$11.02 | \$0.15 |
| PBF Surcharge | ¢/kwh | 0.4658 | 0.4658 | \$2.79 | \$2.79 | \$0.00 |
| DSM Adjustment | ¢/kwh | 0.0000 | 0.0000 | \$0.00 | \$0.00 | \$0.00 |
| SolarSaver Adjustment | ¢/kwh | 0.0000 | 0.0000 | \$0.00 | \$0.00 | \$0.00 |
| Energy Cost Recovery | ¢/kwh | 14.6310 | 14.9760 | \$87.79 | \$89.86 | \$2.07 |
| Green Infrastructure Fee | \$ | 1.3500 | 1.3500 | \$1.35 | \$1.35 | \$0.00 |
| Avg Residential Bill at 600 kwh | | | | \$208.53 | \$210.75 | |

| | |
|-----------------------|--------|
| Increase (Decrease -) | \$2.22 |
| % Change | 1.06% |