



December 27, 2017

JAY IGNACIO, P. E.
President

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

FILED

2017 DEC 27 P 3:23

PUBLIC UTILITIES
COMMISSION

Dear Commissioners:

Subject: Hawai'i Electric Light Energy Cost Adjustment Factor for January 2018

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") Energy Cost Adjustment factor for January 2018 is -0.723 cents per kilowatt-hour ("kWh"), an increase of 0.682 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$178.59, an increase of \$3.57 compared to rates effective December 1, 2017. The increase in the typical residential bill is due to the increase in the Energy Cost Adjustment factor (+\$3.41) and the increase in the Green Infrastructure Fee (+\$0.16).

Hawai'i Electric Light's fuel composite cost of generation increased 136.81 cents per million BTU to 1,256.49 cents per million BTU. The distributed generation increased 3.462 cents per kWh to 14.149 cents per kWh. The composite cost of purchased energy increased 0.311 cents per kWh to 12.784 cents per kWh.

The attached sheets set forth the energy cost adjustment in cents per kWh for each rate schedule that is applicable for pro rata use beginning January 1, 2018.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST ADJUSTMENT FACTOR

| | <u>EFFECTIVE DATES</u> | | |
|------------------------------------|------------------------|-----------------|---------------|
| | <u>12/01/17</u> | <u>01/01/18</u> | <u>Change</u> |
| <u>Composite Cost</u> | | | |
| Generation, ¢/mmbtu | 1,119.68 | 1,256.49 | 136.81 |
| Dispersed Generation Energy, ¢/kWh | 10.687 | 14.149 | 3.462 |
| Purchased Energy, ¢/kWh | 12.473 | 12.784 | 0.311 |
| <u>Residential Schedule "R"</u> | | | |
| Energy Cost Adjustment - ¢/kWh | (1.405) | (0.723) | 0.682 |
| <u>Others - "G,J,P,F"</u> | | | |
| Energy Cost Adjustment - ¢/kWh | (1.405) | (0.723) | 0.682 |
| Residential Customer with: | | | |
| 500 KWH Consumption - \$/Bill | \$175.02 | \$178.59 | \$3.57 |
| 600 KWH Consumption - \$/Bill | \$209.69 | \$213.95 | \$4.26 |

HAWAII ELECTRIC LIGHT COMPANY, INC.
ENERGY COST ADJUSTMENT (ECA) FILING

ENERGY COST ADJUSTMENT (ECA) FILING - January 1, 2018 (Page 1 of 2)

| | | |
|-------------|-----------------------|------------------|
| <u>Line</u> | | |
| 1 | Effective Date | January 1, 2018 |
| 2 | Supercedes Factors of | December 1, 2017 |

GENERATION COMPONENT

| <u>CENTRAL STATION WITH WIND/HYDRO COMPONENT</u> | | | | | |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------|---------------------|-----------------------------------|-------------------------------------------------------------|
| FUEL PRICES, ¢/mmbtu | | | | | |
| 3 | | | | | |
| 4 | Hill Industrial | | 912.97 | | |
| 5 | Puna Industrial | | 931.02 | | |
| 6 | Keahole Diesel | | 1,545.89 | | |
| 6a | Keahole ULSD | | 1,438.71 | | |
| 7 | Waimea ULSD Diesel | | 1,431.13 | | |
| 8 | Hilo Diesel | | 1,516.81 | | |
| 8a | Hilo (Kanoelehua) ULSD Diesel ¹ | | 1,411.97 | | |
| 9 | Puna Diesel | | 1,518.41 | | |
| 10 | Wind | | 0.00 | | |
| 11 | Hydro | | 0.00 | | |
| BTU MIX, % | | | | | |
| 12 | | | | | |
| 13 | Hill Industrial | | 39.064 | | |
| 14 | Puna Industrial | | 5.784 | | |
| 15 | Keahole Diesel | | 52.049 | | |
| 15a | Keahole ULSD | | 0.729 | | |
| 16 | Waimea ULSD Diesel | | 0.333 | | |
| 17 | Hilo Diesel | | 0.000 | | |
| 17a | Hilo (Kanoelehua) ULSD Diesel ¹ | | 0.035 | | |
| 18 | Puna Diesel | | 1.688 | | |
| 19 | Wind | | 0.000 | | |
| 20 | Hydro | | 0.318 | | |
| | | | 100.000 | | |
| 21 | COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmb | | 1,256.49 | | |
| 22 | % Input to System kWh Mix | | 47.938 | | |
| EFFICIENCY FACTOR, mmbtu/kWh | | | | | |
| | (A) | (B) | (C) | (D) | |
| | | | Percent of | | |
| | | | Centrl Stn + | | |
| | | | Wind/Hydro | | |
| | <u>Fuel Type</u> | <u>Eff Factor</u> | <u>Centrl Stn +</u> | <u>Weighted</u> | |
| | | <u>mmbtu/kwh</u> | <u>Wind/Hydro</u> | <u>Eff Factor</u> | |
| 23 | Industrial | 0.015148 | 34.526 | 0.005230 | |
| 24 | Diesel | 0.010424 | 62.029 | 0.006466 | |
| 25 | Other | 0.012621 | 3.446 | 0.000435 | |
| | (Lines 23, 24, 25): Col(B) x Col(C) = Col(D) | | | | |
| 26 | Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)] | | | 0.0121310 | |
| 27 | WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26)) | | | 7.30694 | |
| 28 | BASE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/mmbtu | | | 1,224.44 | |
| 29 | Base % Input to Sys kWh Mix | | | 46.06 | |
| 30 | Efficiency Factor, mmbtu/kwh | | | 0.012621 | |
| 31 | WEIGHTED BASE CENTRAL STATION + WIND/HYDRO GENERATION COST ¢/kWh (Lines (28 x 29 x 30)) | | | 7.11795 | |
| 32 | COST LESS BASE (Line 27 - 31) | | | 0.18899 | |
| 33 | Revenue Tax Req Multiplier | | | 1.0975 | |
| 34 | CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33)) | | | 0.20742 | |
| | | | | <u>DG ENERGY COMPONENT</u> | |
| | | | | 35 | COMPOSITE COST OF DG |
| | | | | | ENERGY, ¢/kWh |
| | | | | | 14.149 |
| | | | | 36 | % Input to System kWh Mix |
| | | | | | 0.842 |
| | | | | 37 | WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36) |
| | | | | | 0.11913 |
| | | | | 38 | BASE DG ENERGY COMPOSITE COS |
| | | | | | 15.702 |
| | | | | 39 | Base % Input to System kWh Mix |
| | | | | | 0.06 |
| | | | | 40 | WEIGHTED BASE DG ENERGY COST, ¢/kWh (Line 38 x 39) |
| | | | | | 0.00942 |
| | | | | 41 | Cost Less Base (Line 37 - 40) |
| | | | | | 0.10971 |
| | | | | 42 | Loss Factor |
| | | | | | 1.067 |
| | | | | 43 | Revenue Tax Req Multiplier |
| | | | | | 1.0975 |
| | | | | 44 | DG FACTOR, ¢/kWh (Line 41 x 42 x 43) |
| | | | | | 0.12847 |
| | | | | SUMMARY OF | |
| | | | | TOTAL GENERATION FACTOR, ¢/kWh | |
| | | | | 45 | Cntrl Stn+Wind/Hydro (line 34) |
| | | | | | 0.20742 |
| | | | | 46 | DG (line 44) |
| | | | | | 0.12847 |
| | | | | 47 | TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46) |
| | | | | | 0.33589 |

¹ Hilo ULSD same location as Kanoelehua ULSD

HAWAII ELECTRIC LIGHT COMPANY, INC.
ENERGY COST ADJUSTMENT (ECA) FILING

ENERGY COST ADJUSTMENT (ECA) FILING - January 1, 2018 (Page 2 of 2)

| Line | PURCHASED ENERGY COMPONENT | | |
|------|-------------------------------------------------------------------|----------|-----------|
| | PURCHASED ENERGY PRICE, ¢/kWh | | |
| 48 | HEP | | 15.118 |
| 49 | PGV | On Peak | 12.856 |
| 50 | PGV | Off Peak | 13.136 |
| 51 | PGV - Add'l 5 MW | On Peak | 12.860 |
| 52 | PGV - Add'l 5 MW | Off Peak | 12.860 |
| 53 | PGV - Add'l 8 MW | On Peak | 6.540 |
| 54 | PGV - Add'l 8 MW | Off Peak | 6.540 |
| 55 | Wailuku Hydro | On Peak | 12.856 |
| 56 | Wailuku Hydro | Off Peak | 13.136 |
| 57 | Hawi Renewable Dev. | On Peak | 12.856 |
| 58 | Hawi Renewable Dev. | Off Peak | 13.136 |
| 59 | Tawhiri (Pakini Nui) | On Peak | 12.400 |
| 60 | Tawhiri (Pakini Nui) | Off Peak | 11.860 |
| 61 | | | |
| 62 | Small Hydro (>100 KW) | On Peak | 12.856 |
| 63 | Small Hydro (>100 KW) | Off Peak | 13.136 |
| 64 | Sch Q Hydro (<100 KW) | | 12.620 |
| 65 | FIT | | 23.800 |
| | PURCHASED ENERGY KWH MIX, % | | |
| 66 | HEP | | 28.582 |
| 67 | PGV | On Peak | 20.496 |
| 68 | PGV | Off Peak | 12.883 |
| 69 | PGV - Add'l | On Peak | 4.099 |
| 70 | PGV - Add'l | Off Peak | 2.929 |
| 71 | PGV - Add'l 8 MW | On Peak | 5.866 |
| 72 | PGV - Add'l 8 MW | Off Peak | 6.034 |
| 73 | Wailuku Hydro | On Peak | 1.040 |
| 74 | Wailuku Hydro | Off Peak | 0.829 |
| 75 | Hawi Renewable Dev. | On Peak | 2.418 |
| 76 | Hawi Renewable Dev. | Off Peak | 1.162 |
| 77 | Tawhiri (Pakini Nui) | On Peak | 7.927 |
| 78 | Tawhiri (Pakini Nui) | Off Peak | 4.815 |
| 79 | | | |
| 80 | Small Hydro (>100 KW) | On Peak | 0.000 |
| 81 | Small Hydro (>100 KW) | Off Peak | 0.000 |
| 82 | Sch Q Hydro (<100 KW) | | 0.231 |
| 83 | FIT | | 0.689 |
| | | | 100.000 |
| 84 | COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh | | 12.784 |
| 85 | % Input to System kWh Mix | | 51.221 |
| 86 | WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (Lines (84 x 85)) | | 6.54809 |
| 87 | BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh | | 13.354 |
| 88 | Base % Input to Sys kWh Mix | | 53.88 |
| 89 | WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (Lines (87 x 88)) | | 7.19514 |
| 90 | COST LESS BASE (Lines (86 - 89)) | | (0.64705) |
| 91 | Loss Factor | | 1.067 |
| 92 | Revenue Tax * | | 1.0975 |
| 93 | PURCHASED ENERGY FACTOR, ¢/kWh (Lines (90 x 91 x 92)) | | (0.75772) |

| Line | SYSTEM COMPOSITE | | |
|------|-----------------------------------------------------------------|--|-----------|
| 94 | GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (Lines (47 + 93)) | | (0.42183) |
| 95 | Not Used | | 0.000 |
| 96 | Not Used | | 0.000 |
| 97 | ECA Reconciliation Adjustment | | (0.301) |
| 98 | ECA FACTOR, ¢/kWh (Lines (94 + 95+ 96 + 97)) | | (0.723) |

Hawaii Electric Light Company, Inc.
FUEL OIL INVENTORY PRICES FOR January 1, 2018

INDUSTRIAL FUEL COSTS:

| | <u>HILO</u> | <u>PUNA</u> |
|---------------------------------------|-------------|-------------|
| Average Industrial Fuel Cost - \$/BBL | 57.5169 | 57.5169 |
| Land Transportation Cost - \$/BBL | -- | 1.1374 |
| Industrial Costs For Filing - \$/BBL | 57.5169 | 58.6543 |
| Conversion Factors - mmbtu/BBL | 6.30 | 6.30 |
| Industrial Costs For Filing - ¢/mmbtu | 912.97 | 931.02 |

DIESEL FUEL COSTS:

| | KEAHOLE | PUNA CT-3 | HILO |
|-----------------------------------|----------|-----------|----------|
| Average Diesel Fuel Cost - \$/BBL | 87.6373 | 87.6373 | 87.6373 |
| Land Transportation Cost - \$/BBL | 2.9519 | 1.3415 | 1.2475 |
| Diesel Costs For Filing - \$/BBL | 90.5892 | 88.9788 | 88.8848 |
| Conversion Factors - mmbtu/BBL | 5.86 | 5.86 | 5.86 |
| Diesel Costs For Filing - ¢/mmbtu | 1,545.89 | 1,518.41 | 1,516.81 |

ULSD FUEL COSTS:

| | KEAHOLE | WAIMEA | HILO | DISPERSED GENERATION |
|-----------------------------------|----------|----------|----------|-------------------------|
| Average ULSD Fuel Cost - \$/BBL | 79.6440 | 79.6440 | 79.6440 | 79.6440 |
| Land Transportation Cost - \$/BBL | 2.7942 | 2.3600 | 1.2621 | - |
| ULSD Costs For Filing - \$/BBL | 82.4382 | 82.0040 | 80.9061 | 79.6440 |
| Conversion Factors - mmbtu/BBL | 5.73 | 5.73 | 5.73 | 5.73 |
| ULSD Costs For Filing - ¢/mmbtu | 1,438.71 | 1,431.13 | 1,411.97 | 1,389.95 |

Dispersed Generation, cents per kWh

| | COMPOSITE COST OF DISP. GEN. |
|--------------------------------------------|---------------------------------|
| BBIs Fuel: | 1396.7512 |
| \$/BBI Inv Cost: | 79.6440 |
| Fuel \$ (Prod Sim Consumption x Unit Cost) | 111,242.83 |
| Net kWh (from Prod Sim) | 786,250 |
| cents/kWh: | 14.149 |

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
December 2017

| | SHIPMAN INDUSTRIAL | | HILL INDUSTRIAL | | COST PER BARREL | | |
|------------------------------|--------------------|----------------------|-----------------|----------------------|-----------------|----------|----------|
| | BBL | COST | BBL | COST | EXCL LT | LT Total | |
| Balance at 11/30/2017 | 0 | 0.00 | 41,443 | 2,300,973.08 | | | |
| 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 | (39,210) | (2,207,241.11) | | | |
| Actual | 0 | 0.00 | 34,879 | 1,952,611.25 | | | |
| Consumed: Estimate | 0 | 0.00 | 34,704 | 1,970,298.78 | | | |
| Actual | 0 | 0.00 | (32,476) | (1,844,877.20) | | | |
| Balance Per G/L 11/30/2017 | 0 | 0.00 | 39,340 | 2,171,764.80 | | | |
| Purchases | xxxxxx | xxxxxxxxxxxxxxxxxxxx | xxxxxxxxxx | xxxxxxxxxxxxxxxxxxxx | | | |
| Transfer out | xxxxxx | xxxxxxxxxxxxxxxxxxxx | xxxxxxxxxx | xxxxxxxxxxxxxxxxxxxx | | | |
| Transfer in | 0 | 0.00 | 30,670 | 1,774,597.40 | | | |
| Consumed | 0 | 0.00 | (33,852) | (1,881,470.42) | 106.5901 | 0.0000 | 106.5901 |
| Balance @ 12/31/2017 | 0 | 0.00 | 36,158 | 2,064,891.78 | | | |
| Inv From Offsite/Transfers | 0 | 0.00 | 0 | 0.00 | | | |
| Est'd Inventory Addition | 0 | 0.00 | 1,628 | 98,014.72 | | | |
| Fuel Balance @ 12/31/2017 | 0 | 0.00 | 37,786 | 2,162,906.51 | | | |
| Reverse Fuel Balance | xxxxxx | 0.00 | xxxxxx | (2,162,906.51) | | | |
| Fuel Bal @ Avg Price | xxxxxx | 0.00 | xxxxxx | 2,173,315.70 | | | |
| Total @ 01/01/2018 Avg Price | 0 | 0.00 | 37,786 | 2,173,315.70 | | | |

Weighted Avg Cost/BBL by Location #DIV/0! 57.2414

Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 57.5169

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
December 2017

PUNA INDUSTRIAL

| | BBL | COST | LAND TRANSP | COST PER BARREL | | TOTAL |
|----------------------------------|--------------|--------------|----------------|-----------------|--------|---------|
| | | | | EXCLUDE LT | LT | |
| Balance at 11/30/2017 | 7,045 | 390,173.02 | 7,522.61 | | | |
| 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 | (2,836) | (164,194.56) | (3,391.12) | | | |
| Actual | 2,770 | 163,541.68 | 3,474.82 | | | |
| Consumed: Estimate | 2,198 | 124,790.13 | 2,095.57 | | | |
| Actual | (2,254) | (132,126.04) | (2,148.86) | | | |
| Balance Per G/L 11/30/2017 | 6,923 | 382,184.23 | 7,553.02 | | | |
| Purchases | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | | | |
| Transfer out | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | | | |
| Transfer in | 2,336 | 139,289 | 2,793.25 | | | |
| Consumed | (2,661) | (147,896.51) | (2,841.40) | 55.5793 | 1.0678 | 56.6471 |
| Balance @ 12/31/2017 | 6,598 | 373,576.95 | 7,504.87 | | | |
| Inventory From Offsite/Transfers | 0 | 0.00 | 0.00 | | | |
| Est'd Inventory Addition | 0 | 0.00 | 0.00 | | | |
| Fuel Bal @ Avg Price | 6,598 | 373,576.95 | 7,504.87 | | 1.1374 | |
| Reverse Fuel Balance | XXXXXXXXXXXX | (373,576.95) | XXXXXXXXXXXX | | | |
| Fuel Balance @ Avg Price | XXXXXXXXXXXX | 379,496.40 | XXXXXXXXXXXX | | | |
| Total @ 01/01/2018 Avg Price | 6,598 | 379,496.40 | 7,504.87 | | | |

Weighted Avg Cost/BBL by Location

56.6197

1.1374

Weighted Avg Cost/BBL @ Avg Cost

57.5169

1.1374

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
December 2017

KEAHOLE CT

| HS Diesel | BBL | GALLONS | COST EXCLUDE LT | LAND TRANSP | COST PER BARREL EXCLUD LT | LT | TOTAL |
|----------------------------------|-----------------|-----------------|--------------------|-----------------|------------------------------|--------|---------|
| Balance at 11/30/2017 | 55,726.5 | 2,340,514.0 | 4,934,671.6 | 148,262.1 | | | |
| 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 | (23,467.9) | (985,651.0) | (2,041,754.0) | (66,728.6) | | | |
| Actual | 28,493.4 | 1,196,722.0 | 2,465,110.8 | 80,406.68 | | | |
| Consumed: Estimate | 22,610.7 | 949,648.0 | 2,166,411.6 | 63,533.71 | | | |
| Actual | (22,286.7) | (936,043.0) | (2,206,852.0) | (54,959.4) | 99.0209 | | |
| Balance Per G/L 11/30/2017 | 61,076.0 | 2,565,190 | 5,317,587.99 | 170,514.53 | 87.0652 | | |
| Purchases | xxxxxxxxxxxxxxx | xxxxxxxxxxxxxxx | xxxxxxxxxxxxxxx | xxxxxxxxxxxxxxx | | | |
| Transfer out | xxxxxxxxxxxxxxx | xxxxxxxxxxxxxxx | xxxxxxxxxxxxxxx | xxxxxxxxxxxxxxx | | | |
| Transfer in | 33,344.2 | 1,400,458.0 | 2,914,056.2 | 94,811.0 | 87.3931 | | |
| Consumed | (45,970.9) | (1,930,779.0) | (3,993,780.4) | (122,307.01) | 86.8762 | 2.6605 | 89.5367 |
| Balance @ 12/31/2017 | 48,449.3 | 2,034,869 | 4,237,863.79 | 143,018.53 | 87.4701 | | |
| Inventory From Offsite/Transfers | 0.0 | 0.0 | 0.0 | 0.00 | | | |
| Est'd Inventory Addition | 0.0 | 0 | 0.0 | 0.00 | | | |
| Fuel Balance @ Avg Price | 48,449.3 | 2,034,869 | 4,237,863.79 | 143,018.53 | 87.4701 | | |
| Reverse Fuel Balance | xxxxxxxxxxxxxxx | xxxxxxxxxxxxxxx | (4,237,863.8) | xxxxxxxxxxxxxxx | | | |
| Fuel Balance @ Avg Price | xxxxxxxxxxxxxxx | xxxxxxxxxxxxxxx | 4,245,962.3 | xxxxxxxxxxxxxxx | | | |
| Total @ 01/01/2018 Avg Price | 48,449.3 | 2,034,869 | 4,245,962.33 | 143,018.53 | 87.6373 | | |

Weighted Avg Cost/BBL by Location 87.4701 2.9519

Weighted Avg Cost/BBL @ Avg Cost 87.6373 2.9519

HAWAII ELECTRIC LIGHT CO., INC.

Estimated Weighted Average
December 2017

PUNA CT-3

| HS Diesel | BBL | GALLONS | COST EXCLUD LT | LAND TRANSP | COST PER BARREL EXCL LT | BARREL LT | TOTAL |
|------------------------------|-----------|------------------|-------------------|----------------|----------------------------|--------------|---------|
| Balance at 11/30/2017 | 4,584.4 | 192,545.0 | 411,432.3 | 5,481.7 | | | |
| Less: Est'd Inven Addition | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| Purchases: Estimate | | xxxxxxxxxxxxxxxx | xxxxxxxxxxxx | xxxxxxxxxxxx | | | |
| Actual | | xxxxxxxxxxxxxxxx | xxxxxxxxxxxx | xxxxxxxxxxxx | | | |
| Transfers out: Estimate | | xxxxxxxxxxxxxxxx | xxxxxxxxxxxx | xxxxxxxxxxxx | | | |
| Actual | | xxxxxxxxxxxxxxxx | xxxxxxxxxxxx | xxxxxxxxxxxx | | | |
| Transfers in: Estimate | (1,191.5) | (50,042.0) | (112,813.8) | (1,321.1) | | | |
| Actual | 1,076.5 | 45,214.0 | 126,208.7 | 1,672.0 | | | |
| Consumed: Estimate | 573.0 | 24,068.0 | 54,905.8 | 714.9 | | | |
| Actual | (724.4) | (30,426.0) | (103,779.4) | (803.6) | | | |
| Balance Per G/L 11/30/2017 | 4,318.1 | 181,359 | 375,953.61 | 5,743.94 | | | |
| Purchases | | xxxxxxxxxxxx | xxxxxxxxxxxx | xxxxxxxxxxxx | | | |
| Transfer out | | xxxxxxxxxxxx | xxxxxxxxxxxx | xxxxxxxxxxxx | | | |
| Transfer in | 398.6 | 16,743.0 | 35,974.7 | 442.0 | 90.2430 | | |
| Consumed | (970.5) | (40,760) | (84,311.30) | (1,160.42) | 86.8762 | 1.1957 | 88.0719 |
| Balance @ 12/31/2017 | 3,746.2 | 157,342 | 327,617.05 | 5,025.53 | 87.4523 | | |
| Inven From Offsite/Transfers | 0.0 | 0 | 0.00 | 0.00 | | | |
| Est'd Inventory Addition | 0.0 | 0 | 0.00 | 0.00 | | | |
| Fuel Balance @ 12/31/2017 | 3,746.2 | 157,342 | 327,617.05 | 5,025.53 | 87.4523 | | |
| Reverse Fuel Balance | | xxxxxxxxxxxx | (327,617.05) | xxxxxxxxxxxx | | | |
| Fuel Balance @ Avg Price | | xxxxxxxxxxxx | 328,310.18 | xxxxxxxxxxxx | | | |
| Total @ 01/01/2018 Avg Price | 3,746.2 | 157,342 | 328,310.18 | 5,025.53 | 87.6373 | | |

Weighted Avg Cost/BBL by Location

87.4523 1.3415

Weighted Avg Cost/BBL @ Avg Cost

87.6373 1.3415

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
December 2017

TOTAL HILO HS-DIESEL

| HS Diesel | BBL | GALLONS | COST EXCLUDE LT | LAND TRANSP | COST PER EXCL LT | BARREL LT | TOTAL |
|------------------------------|---------|--------------|--------------------------|--------------|------------------|-----------|---------|
| Balance at 11/30/2017 | 1517.5 | 63,736 | 117,220 | 1,870 | | | |
| 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 | 2.7 | 114.0 | 0.0 | 2.7 | | | |
| Actual | -2.7 | -114.0 | 0.0 | 0.0 | | | |
| Consumed: Estimate | 9.8 | 410.0 | 935.3 | 12.0 | | | |
| Actual | -36.9 | -1548.0 | 11608.8 | -25.4 | | | |
| Balance Per G/L 11/30/2017 | 1490.4 | 62,598 | 129,764.41 | 1,859.11 | 87.0652 | | |
| Purchases | | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | | | |
| Transfer out | | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | | | |
| Transfer in | 0.0 | 0.0 | 0.0 | 0.0 | #DIV/0! | | |
| Consumed | -17.2 | -724.0 | -1497.6 | -21.2 | 86.8762 | 1.2321 | 88.1084 |
| Balance @ 12/31/2017 | 1,473.2 | 61,874 | 128,266.83 | 1,837.87 | 87.0674 | | |
| 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 | 1,473.2 | 61,874 | 128,266.83 | 1,837.87 | 87.0674 | | |
| Reverse Fuel Balance | | XXXXXXXXXXXX | XXXXXXXXXXXX -128,266.83 | XXXXXXXXXXXX | | | |
| Fuel Balance @ Avg Price | | XXXXXXXXXXXX | XXXXXXXXXXXX 129,106.43 | XXXXXXXXXXXX | | | |
| Total @ 01/01/2018 Avg Price | 1,473.2 | 61,874 | 129,106.43 | 1,837.87 | 87.6373 | | |

Weighted Avg Cost/BBL by Location

87.0674 1.2475

Weighted Avg Cost/BBL @ Avg Cost

87.6373 1.2475

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
December 2017

KEAHOLE DIESEL

| ULSD | BBL | GALLONS | COST EXCLUDE LT | LAND TRANSP | COST PER BARREL EXCLUD LT | LT | TOTAL |
|----------------------------------|--------------|--------------|--------------------|----------------|------------------------------|--------|---------|
| Balance at 11/30/2017 | 2,329.3 | 97,831 | 182,703.96 | 6,614.56 | | | |
| Less: Est'd Inventory Addition | 0.0 | | | | | | |
| Purchases: Estimate | (379.1) | (15,921) | (32,938.29) | (1,077.86) | | | |
| Actual | 189.1 | 7,941 | 16,180.28 | 0.00 | | | |
| Transfers out: Estimate | | xxxxxxxxxxxx | xxxxxxxxxxxxxxxx | xxxxxxxxxxxx | | | |
| Actual | | xxxxxxxxxxxx | xxxxxxxxxxxxxxxx | xxxxxxxxxxxx | | | |
| Transfers in: Estimate | | (216) | 0.00 | (14.62) | | | |
| Actual | | 198 | 0.00 | 537.61 | | | |
| Consumed: Estimate | 109.5 | 4,598 | 8,667.53 | 312.85 | | | |
| Actual | (97.5) | (4,096) | (5,760.91) | (367.76) | 59.0718 | | |
| Balance Per G/L 11/30/2017 | 2,150.8 | 90,335 | 168,852.57 | 6,004.79 | 78.5057 | | |
| Purchases | 189.2 | 7,947 | 17,147.16 | 538.01 | 0.0000 | | |
| Estimated Purchases | 0.0 | 0 | 0.00 | 0.00 | | | |
| Transfer in | 2.9 | 120 | 0.00 | 8.12 | 0.00 | | |
| Consumed | (94.4) | (3,963) | (7,454.11) | (267.95) | 78.9989 | 2.8397 | 81.8386 |
| Balance @ 12/31/2017 | 2,248.5 | 94,439 | 178,545.62 | 6,282.97 | 79.4049 | | |
| 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 | 2,248.5 | 94,439 | 178,545.62 | 6,282.97 | 79.4049 | | |
| Reverse Fuel Balance | xxxxxxxxxxxx | xxxxxxxxxxxx | (178,545.62) | xxxxxxxxxxxx | | | |
| Fuel Balance @ Avg Price | xxxxxxxxxxxx | xxxxxxxxxxxx | 179,083.28 | xxxxxxxxxxxx | | | |
| Total @ 01/01/2018 Avg Price | 2,248.5 | 94,439 | 179,083.28 | 6,282.97 | 79.6440 | | |

Weighted Avg Cost/BBL by Location

79.4049 2.7942

Weighted Avg Cost/BBL @ Avg Cost

79.6440 2.7942

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
December 2017

WAIMEA DIESEL

| ULSD | BBL | GALLONS | COST EXCLUDE LT | LAND TRANSP | COST PER BARREL | LT | TOTAL |
|------------------------------|--------------|--------------|--------------------|----------------|-----------------|--------|---------|
| Balance at 11/30/2017 | 1,684.0 | 70,726.0 | 135,153.1 | 3,938.29 | | | |
| Less: Est'd Inven Addition | 0.0 | 0.0 | 0.00 | 0.00 | | | |
| Purchases: Estimate | | (7,980) | (16,237.28) | (450.07) | | | |
| Actual | | 0.0 | (520.7) | 0.00 | | | |
| Transfers out: Estimate | | xxxxxxxxxxxx | xxxxxxxxxxxx | xxxxxxxxxxxx | | | |
| Actual | | xxxxxxxxxxxx | xxxxxxxxxxxx | xxxxxxxxxxxx | | | |
| Transfers in: Estimate | 1.2 | 52 | 0.00 | 0.00 | | | |
| Actual | (6.9) | (288) | 0.00 | 0.00 | | | |
| Consumed: Estimate | 98.6 | 4,140 | 7,804.17 | 232.36 | | | |
| Actual | (94.9) | (3,984) | (9,065.08) | (196.80) | | | |
| Balance Per G/L 11/30/2017 | 1,492.0 | 62,666 | 117,134.17 | 3,523.78 | 78.5057 | | |
| ULSD Purchases | 189.3 | 7,949 | 17,151.47 | 448.32 | 90.6229 | | |
| Estimated Purchases | - | 0 | 0.00 | 0.00 | | | |
| Transfer in | xxxxxxxxxxxx | 109 | 0.00 | 0.00 | #DIV/0! | | |
| Consumed | (92.5) | (3,885) | (7,307.40) | (216.33) | 78.9989 | 2.3387 | 81.3376 |
| Balance @ 12/31/2017 | 1,591.4 | 66,839 | 126,978.24 | 3,755.77 | 79.7900 | | |
| 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 | 1,591.4 | 66,839 | 126,978.24 | 3,755.77 | 79.7900 | | |
| Reverse Fuel Balance | xxxxxxxxxxxx | xxxxxxxxxxxx | (126,978.24) | xxxxxxxxxxxx | | | |
| Fuel Balance @ Avg Price | xxxxxxxxxxxx | xxxxxxxxxxxx | 126,745.81 | xxxxxxxxxxxx | | | |
| Total @ 01/01/2018 Avg Price | 1,591.4 | 66,839 | 126,745.81 | 3,755.77 | 79.6440 | | |

Weighted Avg Cost/BBL by Location

79.7900 2.3600

Weighted Avg Cost/BBL @ Avg Cost

79.6440 2.3600

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
December 2017

KANOELEHUA DIESEL

| ULSD | BBL | GALLONS | COST EXCLUDE LT | LAND TRANSP | | |
|----------------------------------|---------|----------------|--------------------|----------------|-------------|--------|
| Balance at 11/30/2017 | 1,432.0 | 60,142.0 | 110,399.5 | 1,779.6 | | |
| Less: Est'd Inventory Addition | 0.0 | 0 | 0.00 | 0.00 | | |
| Purchases: Estimate | 0.0 | 0 | 0.00 | 0.00 | | |
| Actual | 0.0 | 0 | 0.00 | 0.00 | | |
| Transfers out: Estimate | | | x | x | x | |
| Actual | | | x | x | x | |
| Transfers in: Estimate | | 534 | 0.00 | 12.44 | | |
| Actual | | (572) | 0.00 | 0.00 | | |
| Consumed: Estimate | 12.2 | 513 | 967.04 | 26.58 | | |
| Actual | (45.3) | (1,903) | (1,619.34) | (74.85) | | |
| Balance Per G/L 11/30/2017 | 1,398.0 | 58,714 | 109,747.16 | 1,743.76 | | |
| ULSD Purchases | 0 | 0 | 0.00 | 0.00 | #DIV/0! | |
| Estimated Purchases | 0 | - | - | - | | |
| Transfer in | 0 | 0 | 0.00 | 0.00 | | |
| Consumed | (37.4) | (1,572) | (967.04) | (26.58) | 78.99889067 | 1.2428 |
| Balance @ 12/31/2017 | 1,360.5 | 57,142 | 108,780.12 | 1,717.18 | | |
| 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 | 1,360.5 | 57,142 | 108,780.12 | 1,717.18 | | |
| Reverse Fuel Balance | x | x (108,780.12) | | x | | |
| Fuel Balance @ Avg Price | x | x 108,357.53 | | x | | |
| Total @ 01/01/2018 Avg Price | 1,360.5 | 57,142 | 108,357.53 | 1,717.18 | | |

Weighted Avg Cost/BBL by Location

79.9546 1.2621

Weighted Avg Cost/BBL @ Avg Cost

79.6440 1.2621

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
December 2017

DISPERSED GENERATION

| | BBL | GALLONS | COST | COST/BBL |
|------------------------------|------------|------------|------------|----------|
| Balance at 11/30/2017 | 106.3 | 4,463 | 10,303.95 | |
| Less: Est'd Inven Addition | 0.0 | XXXXXXXXXX | XXXXXXXXXX | |
| Purchases: Estimate | 0.0 | 0 | 51.95 | |
| Actual | 0.0 | 0 | 0.00 | |
| Consumed: Estimate | 3.6 | 150 | 282.76 | |
| Actual | (3.5) | (149) | (2,294.63) | |
| | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | |
| | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | |
| | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | |
| | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | |
| Balance Per G/L 11/30/2017 | 106.29 | 4,464 | 8,344.03 | 78.5057 |
| Purchases | 0.0 | 0 | 0.00 | 0.0000 |
| Transfer out | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | |
| Transfer in | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | |
| Consumed | (5.6) | (236) | (443.90) | 78.9989 |
| Balance @ 12/31/2017 | 100.7 | 4,228 | 7,900.13 | 78.4781 |
| Est'd Inventory Addition | 0.0 | 0 | 0.00 | |
| Fuel Balance @ 12/31/2017 | 100.7 | 4,228 | 7,900.13 | |
| Reverse Fuel Balance | XXXXXXXXXX | XXXXXXXXXX | (7,900.13) | xxxx |
| Fuel Balance @ Avg Price | XXXXXXXXXX | XXXXXXXXXX | 8,017.49 | xxxx |
| Total @ 01/01/2018 Avg Price | 100.7 | 4,228 | 8,017.49 | 79.6440 |

Hawaii Electric Light Company, Inc.
PURCHASED POWER PRICES FOR January 1, 2018

| | | January 1, 2018 <u>(¢/kWh)</u> | Floor Rates <u>(¢/kWh)</u> |
|------------------|------------|-----------------------------------|-------------------------------|
| PGV (25 MW) | - on peak | 12.856 | 6.560 |
| PGV (22 MW) | - off peak | 13.136 | 5.430 |
| WAILUKU HYDRO | - on peak | 12.856 | 7.240 |
| | . | 13.136 | 5.970 |
| Other: (<100 KW) | Sch Q Rate | 12.620 | |
| | | January 1, 2018 <u>(¢/kWh)</u> | Floor Rates <u>(¢/kWh)</u> |
| HEP | | 15.118 | |
| PGV Addtl 5 MW | - on peak | 12.8600 | 0.0000 |
| | - off peak | 12.8600 | 0.0000 |
| PGV Addtl 8 MW | - on peak | 6.5400 | 0.0000 |
| | - off peak | 6.5400 | 0.0000 |

Hawaii Electric Light Company, Inc.
Energy Cost Reconciliation Adjustment
January 1, 2018

| <u>Line No.</u> | <u>Description</u> | <u>Amount</u> |
|-----------------|------------------------------------------|---------------|
| 1 | Amount to be (returned) or collected | (\$714,200) |
| 2 | Monthly Amount ($\frac{1}{3}$ x Line 1) | (\$238,067) |
| 3 | Revenue Tax Divisor | 0.91115 |
| 4 | Total (Line 2 / Line 3) | (\$261,282) |
| 5 | Estimated MWh Sales (January 1, 2018) | 86,830 mwh |
| 6 | Adjustment (Line 4 / Line 5) | (0.301) ¢/kwh |

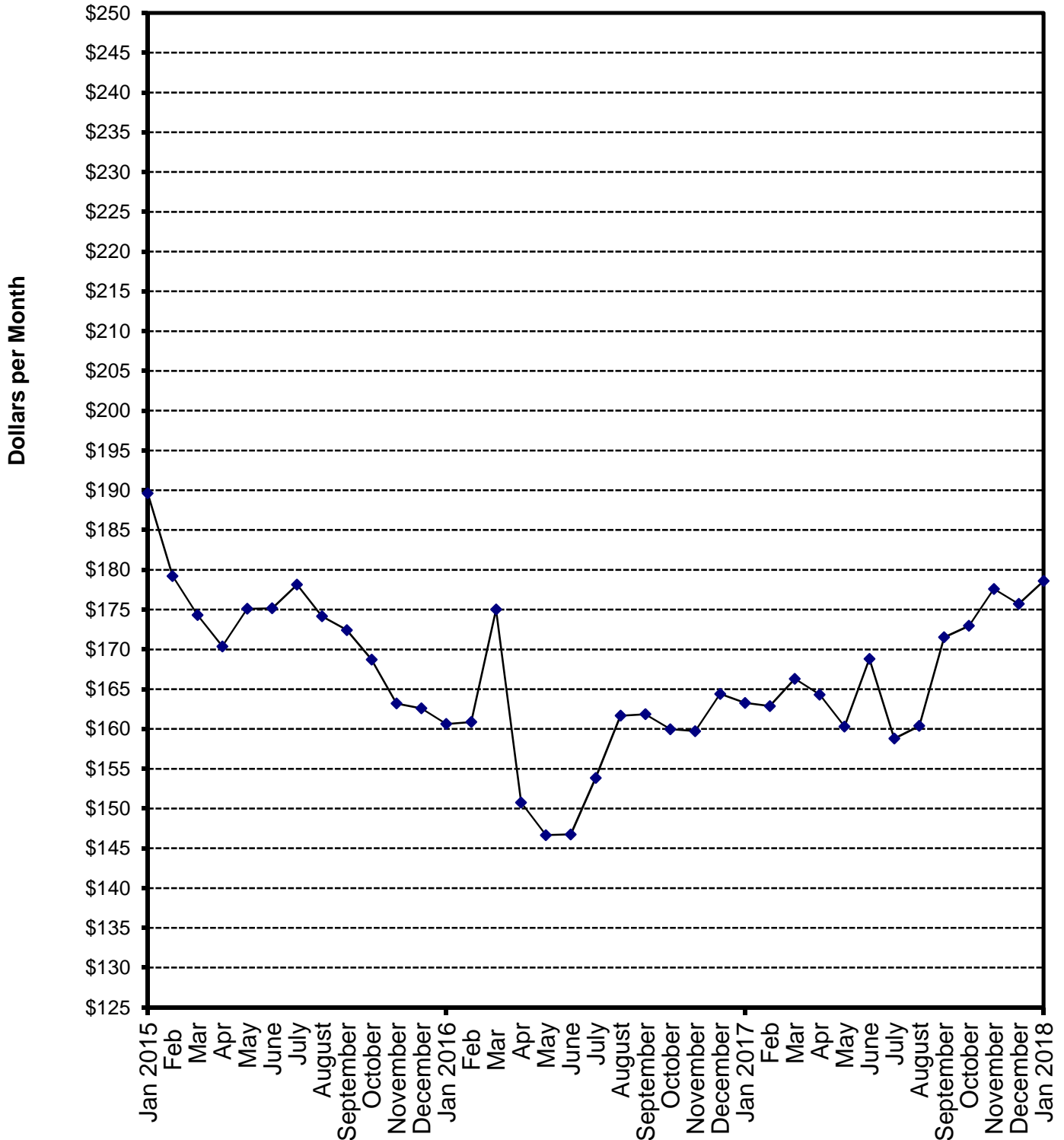
HAWAII ELECTRIC LIGHT COMPANY, INC.
2017 Cumulative Reconciliation Balance

| <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> |
|--------------|--------------------------------------|------------|---------------------------------------|-------------------------------------|------------------------------|------------------------------|--------------------------------------------|
| November | 791,200 | [3] | 44,375 | 746,825 | (263,733) | (262,906) | 565,708 |
| December 15 | | | | | (263,733) | (256,311) | 309,397 |
| January 16 | | | | | (263,733) | (264,541) | 44,856 |
| February | (282,600) | [4] | 10,260 | (292,860) | 94,200 | 95,382 | (152,622) |
| March | | | | | 94,200 | 96,004 | (56,618) |
| April | | | | | 94,200 | 97,345 | 40,727 |
| May | 2,320,900 | [1] | 2,178 | 2,318,722 | (773,633) | (790,776) | 1,568,673 |
| June | | | | | (773,633) | (817,839) | 750,834 |
| July | | | | | (773,633) | (821,946) | (71,112) |
| August | 645,200 | [2] | (58,204) | 703,404 | (215,067) | (232,600) | 399,692 |
| September | | | | | (215,067) | (231,769) | 167,923 |
| October | | | | | (215,067) | (232,984) | (65,061) |
| November | 785,400 | [3] | (82,548) | 867,948 | (261,800) | (268,646) | 534,241 |
| December | | | | | (261,800) | (283,626) | 250,615 |
| January 17 | | | | | (261,800) | (265,764) | (15,149) |
| February | 1,366,400 | [4] | (46,589) | 1,412,989 | (455,467) | (473,124) | 924,716 |
| March | | | | | (455,467) | (479,559) | 445,157 |
| April | | | | | (455,467) | (478,693) | (33,536) |
| May | 445,100 | (1) | (45,713) | 490,813 | (148,367) | (154,562) | 302,715 |
| June | | | | | (148,367) | (151,295) | 151,420 |
| July | | | | | (148,367) | (157,548) | (6,128) |
| August | 500,800 | [2] | (32,349) | 533,149 | (166,933) | (180,924) | 346,097 |
| September | | | | | (166,933) | (178,788) | 167,309 |
| October | | | | | (166,933) | (178,629) | (11,320) |
| November | 714,200 | [3] | (35,027) | 749,227 | (238,067) | (250,818) | 487,089 |
| December | | | | | (238,067) | | |
| January 18 | | | | | | | |

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>COMMERCIAL</u> | <u>RESIDENTIAL & @ 500 KWH</u> | <u>RESIDENTIAL BILL (\$) @ 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 |

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

| EFFECTIVE DATE | DESCRIPTION OF SURCHARGE | RATE |
|---------------------------|---------------------------------------------|-------------------------------|
| 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 | 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 |
| 1/1/2018-6/30/18 | GREEN INFRASTRUCTURE FEE | 1.3400 DOLLARS/MONTH |

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

**Hawaii Electric Light Company, Inc.
Calculations of the Average Residential Customer Bill**

| | Rate | | Charge (\$) at 500 Kwh | | |
|----------------------------------------|-------------------|----------|------------------------|----------|------------|
| | 12/01/17 | 01/01/18 | 12/01/17 | 01/01/18 | Difference |
| Base Rates | | | | | |
| effective date: | 4/9/2012 | 4/9/2012 | | | |
| Base Fuel Energy Charge | ¢/kwh 16.2487 | 16.2487 | \$81.24 | \$81.24 | \$0.00 |
| Non-fuel Fuel Energy Charge | ¢/kwh | | \$62.72 | \$62.72 | \$0.00 |
| First 300 kWh per month | ¢/kwh 11.2019 | 11.2019 | \$33.61 | \$33.61 | \$0.00 |
| Next 700 kWh per month | ¢/kwh 14.5537 | 14.5537 | \$29.11 | \$29.11 | \$0.00 |
| Customer Charge | \$ 10.50 | 10.50 | \$10.50 | \$10.50 | \$0.00 |
| Total Base Charges | | | \$154.46 | \$154.46 | \$0.00 |
| Interim Rate Increase 2016 TY | % on base 5.8800% | 5.8800% | \$9.08 | \$9.08 | \$0.00 |
| RBA Rate Adjustment | ¢/kwh 0.6313 | 0.6313 | \$3.16 | \$3.16 | \$0.00 |
| Purchased Power Adj. Clause | ¢/kwh 2.4090 | 2.4105 | \$12.05 | \$12.05 | \$0.00 |
| PBF Surcharge | ¢/kwh 0.4244 | 0.4244 | \$2.12 | \$2.12 | \$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 Adjustment | ¢/kwh (1.4050) | (0.7230) | -\$7.03 | -\$3.62 | \$3.41 |
| Green Infrastructure Fee | \$ 1.1800 | 1.3400 | \$1.18 | \$1.34 | \$0.16 |
| Avg Residential Bill at 500 kwh | | | \$175.02 | \$178.59 | |

| | |
|-----------------------|--------|
| Increase (Decrease -) | \$3.57 |
| % Change | 2.04% |

| | Rate | | Charge (\$) at 600 Kwh | | |
|----------------------------------------|-------------------|----------|------------------------|----------|------------|
| | 12/01/17 | 01/01/18 | 12/01/17 | 01/01/18 | Difference |
| Base Rates | | | | | |
| effective date: | 4/9/2012 | 4/9/2012 | | | |
| Base Fuel/Energy Charge | ¢/kwh 16.2487 | 16.2487 | \$97.49 | \$97.49 | \$0.00 |
| Non-fuel Fuel Energy Charge | ¢/kwh | | \$77.27 | \$77.27 | \$0.00 |
| First 300 kWh per month | ¢/kwh 11.2019 | 11.2019 | \$33.61 | \$33.61 | \$0.00 |
| Next 700 kWh per month | ¢/kwh 14.5537 | 14.5537 | \$43.66 | \$43.66 | \$0.00 |
| Customer Charge | \$ 10.50 | 10.50 | \$10.50 | \$10.50 | \$0.00 |
| Total Base Charges | | | \$185.26 | \$185.26 | \$0.00 |
| Interim Rate Increase 2016 TY | % on base 5.8800% | 5.8800% | \$10.89 | \$10.89 | \$0.00 |
| RBA Rate Adjustment | ¢/kwh 0.6313 | 0.6313 | \$3.79 | \$3.79 | \$0.00 |
| Purchased Power Adj. Clause | ¢/kwh 2.4090 | 2.4105 | \$14.45 | \$14.46 | \$0.01 |
| PBF Surcharge | ¢/kwh 0.4244 | 0.4244 | \$2.55 | \$2.55 | \$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 Adjustment | ¢/kwh (1.4050) | (0.7230) | -\$8.43 | -\$4.34 | \$4.09 |
| Green Infrastructure Fee | \$ 1.1800 | 1.3400 | \$1.18 | \$1.34 | \$0.16 |
| Avg Residential Bill at 600 kwh | | | \$209.69 | \$213.95 | |

| | |
|-----------------------|--------|
| Increase (Decrease -) | \$4.26 |
| % Change | 2.03% |