



SHARON M. SUZUKI  
President

December 27, 2019

FILED

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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 January 2020

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") Energy Cost Recovery factor for January 2020 is 16.768 cents per kilowatt-hour ("kWh"), an increase of 0.48 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$185.37, an increase of \$3.55 compared to rates effective December 1, 2019. The increase in the residential bill is due to the implementation of the Interim Rate Adjustment (+\$3.41), the increase in the Energy Cost Recovery Factor (+\$2.40), 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 RBA Rate Adjustment (-\$3.60) and the decrease in Purchased Power Adjustment Clause (-\$0.07). In accordance with Interim Decision and Order No. 36761 and Order No. 36876, the implementation of the Interim Rate Adjustment and the decrease in the RBA Rate Adjustment reflect the termination of the RAM Revenue Adjustment portion of the RBA Rate Adjustment and the inclusion of the recovery of those revenues in the Interim Rate Adjustment.<sup>1</sup>

Hawai'i Electric Light's fuel composite cost of generation increased 37.66 cents per million BTU to 1,315.09 cents per million BTU. The composite cost of distributed generation increased 0.84 cents per kWh to 16.464 cents per kWh. The composite cost of purchased energy increased 0.57 cents per kWh to 15.062 cents per kWh.

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 January 1, 2020.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

<sup>1</sup> See Interim Decision and Order No. 36761, page 36. Order No. 36876 approved the tariff sheets reflecting the referenced implementation of the Interim Rate Adjustment and decrease to the RBA Rate Adjustment.

## HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST RECOVERY FACTOR

	<u>EFFECTIVE DATES</u>		
	<u>12/01/19</u>	<u>1/01/20</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	1,277.43	1,315.09	37.66
Dispersed Generation Energy, ¢/kWh	15.628	16.464	0.84
Purchased Energy, ¢/kWh	14.496	15.062	0.57
<u>Residential Schedule "R"</u>			
Energy Cost Recovery - ¢/kWh	16.288	16.768	0.48
<u>Others - "G,J,P,F"</u>			
Energy Cost Recovery - ¢/kWh	16.288	16.768	0.48
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$181.82	\$185.37	\$3.55
600 KWH Consumption - \$/Bill	\$217.67	\$221.88	\$4.21

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

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

<u>Line</u>		
1	Effective Date	January 1, 2020
2	Supersedes Factors of	December 1, 2019

**GENERATION COMPONENT**

<b><u>CENTRAL STATION WITH WIND/HYDRO COMPONENT</u></b>						
FUEL PRICES, ¢/mmbtu						
3						
4	Hill Industrial		924.17			
5	Puna Industrial		949.02			
6	Keahole Diesel		1,577.09			
6a	Keahole ULSD		1,664.87			
7	Waimea ULSD Diesel		1,657.96			
8	Hilo Diesel		1,544.13			
8a	Hilo (Kanoelehua) ULSD Diesel <sup>1</sup>		1,625.85			
9	Puna Diesel		1,546.67			
10	Wind		0.00			
11	Hydro		0.00			
BTU MIX, %						
12						
13	Hill Industrial		33.427			
14	Puna Industrial		6.681			
15	Keahole Diesel		50.245			
15a	Keahole ULSD		0.426			
16	Waimea ULSD Diesel		0.043			
17	Hilo Diesel		1.525			
17a	Hilo (Kanoelehua) ULSD Diesel <sup>1</sup>		0.801			
18	Puna Diesel		6.852			
19	Wind		0.000			
20	Hydro		0.000			
			100.000			
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmbtu		1,315.09			
22	% Input to System kWh Mix		56.687			
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	0.014389	40.108	0.005771		
24	Diesel	0.010580	59.892	0.006337		
25	Other	0.011999	0.0000	0.0000		
<small>(Lines 23, 24, 25): Col(B) x Col(C) = Col(D)</small>						
26	Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)]			0.0121080		
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26))			9.02633		
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)			9.02633		
33	Revenue Tax Req Multiplier			1.0975		
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33))			9.90640		
				<b><u>DG ENERGY COMPONENT</u></b>		
				35	COMPOSITE COST OF DG ENERGY, ¢/kWh	16.464
				36	% Input to System kWh Mix	0.118
				37	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36)	0.01943
				38	BASE DG ENERGY COMPOSITE COST	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)	0.01943
				42	Loss Factor	1.072
				43	Revenue Tax Req Multiplier	1.0975
				44	DG FACTOR, ¢/kWh (Line 41 x 42 x 43)	0.02286
				<b>SUMMARY OF</b>		
				TOTAL GENERATION FACTOR, ¢/kWh		
				45	Cntrl Stn+Wind/Hydro (line 34)	9.90640
				46	DG (line 44)	0.02286
				47	TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)	9.92926

<sup>1</sup> Hilo ULSD same location as Kanoelehua ULSD

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

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

Line	<u>PURCHASED ENERGY COMPONENT</u>			
	PURCHASED ENERGY PRICE, ¢/kWh -- Fossil			
48	HEP		15.443	
	PURCHASED ENERGY PRICE, ¢/kWh -- Renewable			
49	PGV	On Peak	14.694	
50	PGV	Off Peak	14.047	
51	PGV - Add'l 5 MW	On Peak	13.250	
52	PGV - Add'l 5 MW	Off Peak	13.250	
53	PGV - Add'l 8 MW	On Peak	10.100	
54	PGV - Add'l 8 MW	Off Peak	6.740	
55	Wailuku Hydro	On Peak	14.694	
56	Wailuku Hydro	Off Peak	14.047	
57	Hawi Renewable Dev.	On Peak	14.694	
58	Hawi Renewable Dev.	Off Peak	14.047	
59	Tawhiri (Pakini Nui)	On Peak	12.640	
60	Tawhiri (Pakini Nui)	Off Peak	12.590	
61	HEP Biodiesel		15.443	
62	Small Hydro (>100 KW)	On Peak	14.694	
63	Small Hydro (>100 KW)	Off Peak	14.047	
64	Sch Q Hydro (<100 KW)		14.060	
65	FIT		23.800	
	PURCHASED ENERGY KWH MIX, %,			
66	HEP, Fossil		70.266	
	PURCHASED ENERGY KWH MIX, %, Renewable			
67	PGV	On Peak	0.000	
68	PGV	Off Peak	0.000	
69	PGV - Add'l	On Peak	0.000	
70	PGV - Add'l	Off Peak	0.000	
71	PGV - Add'l 8 MW	On Peak	0.000	
72	PGV - Add'l 8 MW	Off Peak	0.000	
73	Wailuku Hydro	On Peak	1.842	
74	Wailuku Hydro	Off Peak	1.343	
75	Hawi Renewable Dev.	On Peak	2.861	
76	Hawi Renewable Dev.	Off Peak	1.712	
77	Tawhiri (Pakini Nui)	On Peak	7.888	
78	Tawhiri (Pakini Nui)	Off Peak	5.578	
79	HEP Biodiesel		7.586	
80	Small Hydro (>100 KW)	On Peak	0.000	
81	Small Hydro (>100 KW)	Off Peak	0.000	
82	Sch Q Hydro (<100 KW)		0.000	
83	FIT		0.924	
			100.000	
83a	Comp. Cost Purchased Energy Fossil, ¢/kWh		15.4430	
83b	Comp. Cost Purchased Energy Renewable, ¢/kWh		14.1620	
84	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh		15.062	
85	% Input to System kWh Mix		43.195	
86	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (Lines (84 x 85))		6.50603	
87	BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh		0.000	
88	Base % Input to Sys kWh Mix		0.00	
89	WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (Lines (87 x 88))		0.00000	
90	COST LESS BASE (Lines (86 - 89))		6.50603	
91	Loss Factor		1.072	
92	Revenue Tax *		1.0975	
93	PURCHASED ENERGY FACTOR, ¢/kWh (Lines (90 x 91 x 92))		7.65447	
				Derivation of Non-Adjustable Component:
		93A	Ocean Cargo Insurance Exp, \$000	\$13.1
			HELCO-603, page 1, line 4	
		93B	Revenue Tax Adjustment	1.097514
		93C	Non-Adj Revenues, \$000	\$14.4
		93D	2019 TY Sales, MWh	1,061,718
			HELCO-301	
		93E	Non-Adj Revenues, ¢/kWh	0.00135
Line	<u>SYSTEM COMPOSITE</u>			
94	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (Lines (47 + 93))			17.58373
95	Not Used			0.000
96	Non-Adjustable Component			0.00135
97	ECA Reconciliation Adjustment			(0.817)
98	ECA FACTOR, ¢/kWh (Lines (94 + 95+ 96 + 97))			16.768

**Hawaii Electric Light Company, Inc.**  
FUEL OIL INVENTORY PRICES FOR January 1, 2020

**INDUSTRIAL FUEL COSTS:**

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	58.2228	58.2228
Land Transportation Cost - \$/BBL	--	1.5653
Industrial Costs For Filing - \$/BBL	58.2228	59.7881
Conversion Factors - mmbtu/BBL	6.30	6.30
Industrial Costs For Filing - ¢/mmbtu	924.17	949.02

**DIESEL FUEL COSTS:**

	KEAHOLE	PUNA CT-3	HILO
Average Diesel Fuel Cost - \$/BBL	89.4070	89.4070	89.4070
Land Transportation Cost - \$/BBL	3.0107	1.2278	1.0788
Diesel Costs For Filing - \$/BBL	92.4176	90.6348	90.4858
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
Diesel Costs For Filing - ¢/mmbtu	1,577.09	1,546.67	1,544.13

**ULSD FUEL COSTS:**

	KEAHOLE	WAIMEA	HILO	DISPERSED GENERATION
Average ULSD Fuel Cost - \$/BBL	92.0715	92.0715	92.0715	92.0715
Land Transportation Cost - \$/BBL	3.3256	2.9296	1.0899	-
ULSD Costs For Filing - \$/BBL	95.3970	95.0011	93.1614	92.0715
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
ULSD Costs For Filing - ¢/mmbtu	1,664.87	1,657.96	1,625.85	1,606.83

**Dispersed Generation, cents per kWh**

	<u>COMPOSITE COST OF DISP. GEN.</u>
BBIs Fuel:	195.5767
\$/BBI Inv Cost:	92.0715
Fuel \$ (Prod Sim Consumption x Unit Cost)	18,007.03
Net kWh (from Prod Sim)	109,375
cents/kWh:	16.464

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
December 2019

	SHIPMAN INDUSTRIAL		HILL INDUSTRIAL		COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 11/30/2019	0	0.00	39,766	2,303,499.12			
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	(49,559)	(2,901,733.49)			
Actual	0	0.00	39,685	2,340,448.59			
Consumed: Estimate	0	0.00	43,962	2,620,475.04			
Actual	0	0.00	(42,814)	(2,557,138.47)			
Balance Per G/L 11/30/2019	0	0.00	31,040	1,805,550.79			
Purchases	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0.00	45,871	2,680,511.54			
Consumed	0	0.00	(39,014)	(2,294,253.75)	106.5901	0.0000	106.5901
Balance @ 12/31/2019	0	0.00	37,897	2,191,808.58			
Inv From Offsite/Transfers	0	0.00	0	0.00			
Est'd Inventory Addition	0	0.00	0	0.00			
Fuel Balance @ 12/31/2019	0	0.00	37,897	2,191,808.58			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxx	(2,191,808.58)			
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxx	2,206,468.73			
Total @ 01/01/2020 Avg Price	0	0.00	37,897	2,206,468.73			

Weighted Avg Cost/BBL by Location #DIV/0! 57.8359

Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 58.2228

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
December 2019

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 11/30/2019	5,304	346,402.07	8,565.80			
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	(654)	(42,080.03)	(860.21)			
Actual	604	42,080.03	911.51			
Consumed: Estimate	1,935	115,340.96	3,287.31			
Actual	(1,161)	(111,103.20)	(29.57)			
Balance Per G/L 11/30/2019	6,028	350,639.83	11,874.84			
Purchases	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	9,473	557,259	12,459.93			
Consumed	(1,417)	(83,327.97)	(2,288.41)	58.8059	1.6150	60.4209
Balance @ 12/31/2019	14,084	824,570.90	22,046.36			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	14,084	824,570.90	22,046.36		1.5653	
Reverse Fuel Balance	XXXXXXXXXXXX	(824,570.90)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	820,009.65	XXXXXXXXXXXX			
Total @ 01/01/2020 Avg Price	14,084	820,009.65	22,046.36			

Weighted Avg Cost/BBL by Location

58.5466

1.5653

Weighted Avg Cost/BBL @ Avg Cost

58.2228

1.5653

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
December 2019

KEAHOLE DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCLUD LT	BARREL LT	TOTAL
Balance at 11/30/2019	41,432.6	1,740,169.2	3,709,878.8	125,672.2			
Less: Est'd Inventory Addition	(16,626.6)	(698,319.0)	(1,502,956.0)	(48,222.3)			
Purchases: Estimate	0.0	0.0	0.0	0.0			
Actu:	0.0	0.0	0.0	0.0			
Transfers out: Estimate		xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Actu:		xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Transfers in: Estimate	(38,147.7)	(1,602,203.0)	(3,410,388.4)	(108,469.1)			
Actu:	41,362.0	1,737,203.0	3,922,405.0	122,262.35			
Consumed: Estimate	55,997.6	2,351,900.0	5,065,602.3	174,362.24			
Actu:	(54,314.0)	(2,281,188.0)	(5,138,371.9)	(164,370.2)	94.6049		
Balance Per G/L 11/30/2019	29,703.9	1,247,562	2,646,169.75	101,235.12	89.0850		
Purchases	xxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Transfer out	xxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Transfer in	46,932.6	1,971,169.0	4,190,007.1	133,448.1	89.2771		
Consumed	(52,409.3)	(2,201,192.0)	(4,697,674.9)	(158,966.48)	89.6343	3.0332	92.6675
Balance @ 12/31/2019	24,227.1	1,017,539	2,138,502.00	75,716.78	88.2689		
Inventory From Offsite/Transfers	17,519.0	735,798.0	1,581,830.9	50,810.36			
Est'd Inventory Addition	7,646.9	321,169	689,190.8	22,178.24			
Fuel Balance @ Avg Price	49,393.0	2,074,506	4,409,523.63	148,705.37	89.2743		
Reverse Fuel Balance	xxxxxxxxxxx	xxxxxxxxxxxxxxx	(4,409,523.6)	xxxxxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxx	xxxxxxxxxxxxxxx	4,416,078.2	xxxxxxxxxxxxxxx			
Total @ 01/01/2020 Avg Price	49,393.0	2,074,506	4,416,078.20	148,705.37	89.4070		

Weighted Avg Cost/BBL by Location

89.2743

3.0107

Weighted Avg Cost/BBL @ Avg Cost

89.4070

3.0107



**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
December 2019

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 11/30/2019	2,791.7	117,250.0	249,351.6	2,856.5			
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	(6,309.8)	(265,011.0)	(567,253.8)	(6,996.3)			
Actual	6,326.4	265,709.0	570,016.9	6,893.0			
Consumed: Estimate	7,861.8	330,195.0	711,185.2	10,695.3			
Actual	(6,409.6)	(269,202.0)	(583,753.1)	(8,271.2)			
Balance Per G/L 11/30/2019	4,260.5	178,941	379,546.88	5,177.27			
Purchases		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfer in	7,686.6	322,838.0	691,466.1	8,522.9	89.9571		
Consumed	(4,735.5)	(198,889)	(424,459.04)	(4,845.36)	89.6343	1.0232	90.6575
Balance @ 12/31/2019	7,211.7	302,890	646,553.94	8,854.84	89.6539		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 12/31/2019	7,211.7	302,890	646,553.94	8,854.84	89.6539		
Reverse Fuel Balance		XXXXXXXXXXXXXXXXXX	(646,553.94)	XXXXXXXXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXXXXXXXX	644,773.23	XXXXXXXXXXXXXXXXXX			
Total @ 01/01/2020 Avg Price	7,211.7	302,890	644,773.23	8,854.84	89.4070		

Weighted Avg Cost/BBL by Location 89.6539 1.2278

Weighted Avg Cost/BBL @ Avg Cost 89.4070 1.2278

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
December 2019

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 11/30/2019	862.6	36,231	78,300	171			
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	-187.8	-7886.0	-17117.2	-183.7			
Actual	564.8	23722.0	51788.8	552.7			
Consumed: Estimate	961.4	40377.0	86965.4	1020.7			
Actual	-722.0	-30323.0	-68173.4	56.8			
Balance Per G/L 11/30/2019	1479.1	62,121	131,763.16	1,617.54	89.0851		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	191.7	8051.0	17043.7	187.6	#DIV/0!		
Consumed	-41.5	-1744.0	-3722.0	-47.5	89.6343	1.1440	90.7783
Balance @ 12/31/2019	1,629.2	68,428	145,084.95	1,757.63	89.0508		
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	1,629.2	68,428	145,084.95	1,757.63	89.0508		
Reverse Fuel Balance		XXXXXXXXXXXX	XXXXXXXXXXXX -145,084.95	XXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXX	XXXXXXXXXXXX 145,665.23	XXXXXXXXXXXX			
Total @ 01/01/2020 Avg Price	1,629.2	68,428	145,665.23	1,757.63	89.4070		
Weighted Avg Cost/BBL by Location			89.0508	1.0788			
Weighted Avg Cost/BBL @ Avg Cost			89.4070	1.0788			

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
December 2019

KEAHOLE ULSD

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 11/30/2019	1,932.3	81,158	176,648.05	6,244.02			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(188.3)	(7,910)	(17,505.02)	(535.51)			
Actua	188.3	7,910	17,505.02	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actua		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate		(16)	0.00	(1.08)			
Actua		155	0.00	535.51			
Consumed: Estimate	252.1	10,587	23,518.14	999.00			
Actua	(177.7)	(7,465)	(16,157.45)	(391.64)	90.9059		
Balance Per G/L 11/30/2019	2,010.0	84,419	184,008.74	6,850.29	91.5477		
Purchases	188.9	7,935	17,344.05	537.20	0.0000		
Estimated Purchases	190.0	7,980	17,442.41	540.25			
Transfer in	(6.5)	(272)	0.00	(18.41)	0.00		
Consumed	(144.1)	(6,052)	(13,364.86)	(465.62)	92.7502	3.2313	95.9815
Balance @ 12/31/2019	2,238.3	94,010	205,430.34	7,443.71	91.7783		
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	2,238.3	94,010	205,430.34	7,443.71	91.7783		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(205,430.34)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	206,086.65	xxxxxxxxxxxx			
Total @ 01/01/2020 Avg Price	2,238.3	94,010	206,086.65	7,443.71	92.0715		

Weighted Avg Cost/BBL by Location

91.7783 3.3256

Weighted Avg Cost/BBL @ Avg Cost

92.0715 3.3256

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
December 2019

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 11/30/2019	1,205.6	50,635.0	109,399.5	3,453.14			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Purchases: Estimate		0	0.00	0.00			
Actual		0.0	0.0	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate	0.1	4	0.00	0.00			
Actual	(22.5)	(944)	0.00	0.00			
Consumed: Estimate	260.3	10,932	24,284.53	717.03			
Actual	(179.4)	(7,536)	(17,961.20)	(494.29)			
Balance Per G/L 11/30/2019	1,264.1	53,091	115,722.86	3,675.87	91.5477		
ULSD Purchases	0.0	0	0.00	0.00	#DIV/0!		
Estimated Purchases	-	0	0.00	0.00			
Transfer in	xxxxxxxxxxxx	(322)	0.00	0.00	#DIV/0!		
Consumed	(75.6)	(3,177)	(7,015.89)	(216.66)	92.7502	2.8643	95.6144
Balance @ 12/31/2019	1,180.8	49,592	108,706.97	3,459.21	92.0651		
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	1,180.8	49,592	108,706.97	3,459.21	92.0651		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(108,706.97)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	108,714.49	xxxxxxxxxxxx			
Total @ 01/01/2020 Avg Price	1,180.8	49,592	108,714.49	3,459.21	92.0715		

Weighted Avg Cost/BBL by Location

92.0651 2.9296

Weighted Avg Cost/BBL @ Avg Cost

92.0715 2.9296

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
December 2019

KANOELEHUA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP		
Balance at 11/30/2019	790.5	33,203.0	78,561.0	1,764.1		
Less: Est'd Inventory Addition	0.0	0	0.00	0.00		
Purchases: Estimate	0.0	0	0.00	0.00		
Actu:	0.0	0	0.00	0.00		
Transfers out: Estimate		x	x	x		
Actu		x	x	x		
Transfers in: Estimate		0	0.00	0.00		
Actu:		0	0.00	0.00		
Consumed: Estimate	84.6	3,552	967.04	26.58		
Actu:	(60.7)	(2,550)	(4,971.14)	(900.02)		
Balance Per G/L 11/30/2019	814.4	34,205	74,556.90	890.65		
ULSD Purchases	0	0	0.00	0.00	#DIV/0!	
Estimated Purchases	0	-	-	-		
Transfer in	0	0	0.00	0.00		
Consumed	(23.1)	(970)	(967.04)	(26.58)	92.75017497	1.2000
Balance @ 12/31/2019	791.3	33,235	73,589.86	864.07		
Inventory From Offsite/Transfers	0.0	0	0.00	0.00		
Est'd Inventory Addition	14.7	617	1,348.67	14.38		
Fuel Balance @ Avg Price	806.0	33,852	74,938.53	878.44		
Reverse Fuel Balance	x	x	(74,938.53)	x		
Fuel Balance @ Avg Price	x	x	74,209.61	x		
Total @ 01/01/2020 Avg Price	806.0	33,852	74,209.61	878.44		

Weighted Avg Cost/BBL by Location

92.9758 1.0899

Weighted Avg Cost/BBL @ Avg Cost

92.0715 1.0899

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
December 2019

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 11/30/2019	127.1	5,338	11,546.38	
Less: Est'd Inven Addition	0.0	XXXXXXXXXX	XXXXXXXXXX	
Purchases: Estimate	0.0	0	0.00	
Actual	0.0	0	0.00	
Consumed: Estimate	1.5	63	139.95	
Actual	(8.8)	(370)	(720.22)	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Balance Per G/L 11/30/2019	119.79	5,031	10,966.11	91.5477
Purchases	0.0	0	0.00	0.0000
Transfer out	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Consumed	(3.5)	(146)	(322.42)	92.7502
Balance @ 12/31/2019	116.3	4,885	10,643.69	91.5118
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 12/31/2019	116.3	4,885	10,643.69	
Reverse Fuel Balance	XXXXXXXXXX	XXXXXXXXXX	(10,643.69)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXX	XXXXXXXXXX	10,708.79	xxxx
Total @ 01/01/2020 Avg Price	116.3	4,885	10,708.79	92.0715

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

TYPE OF OIL BURNED

<b>INDUSTRIAL *</b>	<u>Hill Industrial</u>		<u>Puna Industrial</u>	
	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax <sup>1</sup>	52.77	6.3107	100.18	6.3107
Ocean Transportation	47.41	0.0000	20.88	1.3153
Storage	33.98	0.4000	33.98	0.4000
Wharfage	6.35	0.0000	6.35	0.0000
Fees <sup>2</sup>	0.00	0.0000	0.00	0.0000
<b>DIESEL *</b>	<u>Hilo Diesel</u>		<u>Waimea Diesel</u>	
	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax <sup>1</sup>	137.28	8.0440	137.28	8.0440
Ocean Transportation	33.72	2.6061	33.72	2.6061
Storage	6.83	0.4000	6.83	0.4000
Wharfage	0.00	0.0000	0.00	0.0000
Fees <sup>2</sup>	0.00	0.0000	0.00	0.0000
<b>ULSD **</b>	<u>Kona Diesel</u>		<u>CT3 Diesel</u>	
	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax <sup>1</sup>	137.28	8.0440	137.28	8.0440
Ocean Transportation	33.72	2.6061	33.72	2.6061
Storage	6.83	0.4000	6.83	0.4000
Wharfage	0.00	0.0000	0.00	0.0000
Fees <sup>2</sup>	0.00	0.0000	0.00	0.0000
<b>ULSD **</b>	<u>ULSD</u>			
	<u>¢/MBTU</u>	<u>\$/BBL</u>		
Tax <sup>1</sup>	93.24	5.3432		
Ocean Transportation	0.00	0.0000		
Storage	0.00	0.0000		
Wharfage	0.00	0.0000		
Fees <sup>2</sup>	0.00	0.0000		

<sup>1</sup> Tax includes HGET, Hawaii Use Tax, Liquid Fuel Tax, LUST Tax and Environmental Response Tax.

<sup>2</sup> With the change in supplier to PAR some fees have been taken off the pricing sheet.

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 January 1, 2020

		January 1, 2020 <u>(¢/kWh)</u>	Floor Rates <u>(¢/kWh)</u>
PGV (25 MW)	- on peak	14.694	6.560
PGV (22 MW)	- off peak	14.047	5.430
WAILUKU HYDRO	- on peak	14.694	7.240
	off peak	14.047	5.970
Other: (<100 KW)	Sch Q Rate	14.060	
		January 1, 2020 <u>(¢/kWh)</u>	Floor Rates <u>(¢/kWh)</u>
HEP		15.443	
PGV Addtl 5 MW	- on peak	13.250	0.0000
	- off peak	13.250	0.0000
PGV Addtl 8 MW	- on peak	10.100	0.0000
	- off peak	6.740	0.0000



**Hawaii Electric Light Company, Inc.**  
**Energy Cost Reconciliation Adjustment**  
January 1, 2020

<u>Line No.</u>	<u>Description</u>	<u>Amount</u>
1	Amount to be (returned) or collected	(\$1,927,900)
2	Monthly Amount ( $\frac{1}{3}$ x Line 1)	(\$642,633)
3	Revenue Tax Divisor	0.91115
4	Total (Line 2 / Line 3)	(\$705,299)
5	Estimated MWh Sales (January 1, 2020)	86,286 mwh
6	Adjustment (Line 4 / Line 5)	(0.817) ¢/kwh

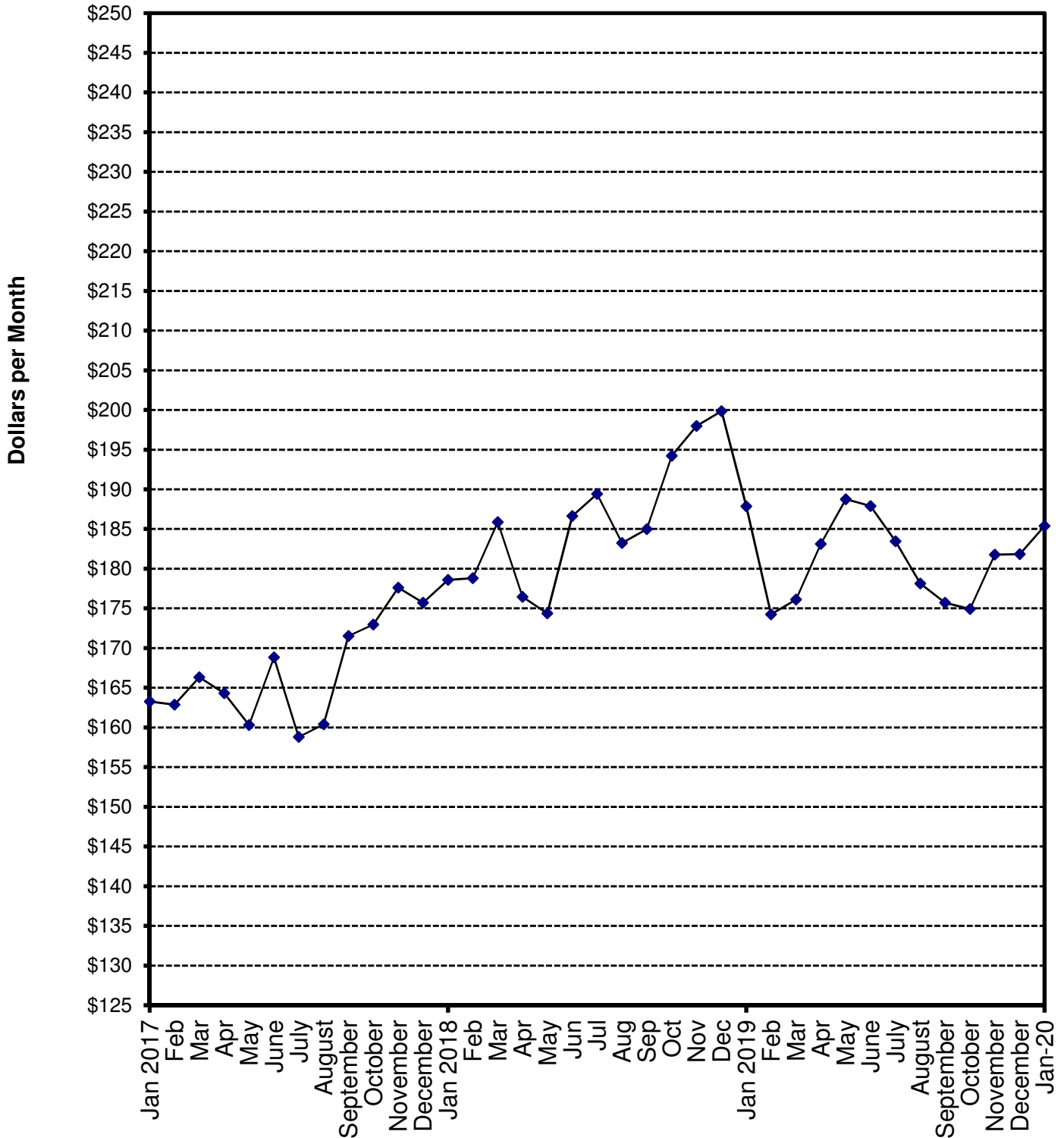
**HAWAII ELECTRIC LIGHT COMPANY, INC.**  
2019 Cumulative Reconciliation Balance

Month	(1) YTD FOA Reconciliation	Qtr	(2) FOA Rec Adjust Variance	(3) FOA Rec Less Variance	(4) Try to Collect	(5) Actual Collect	(6) Month-end Cumulative Balance
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)	(800,636)	1,839,091
March					(866,300)	(825,091)	1,014,000
April					(866,300)	(829,484)	184,516
May	1,745,900	(1)	112,297	1,633,603	(581,967)	(565,304)	1,252,815
June					(581,967)	(585,631)	667,184
July					(581,967)	(586,240)	80,944
August	3,027,900	[2]	49,815	2,978,085	(1,009,300)	(1,025,775)	2,033,254
September					(1,009,300)	(1,026,151)	1,007,103
October					(1,009,300)	(1,007,209)	(106)
November	1,927,900	[3]	(37,599)	1,965,499	(642,633)	(651,308)	1,314,085
December 19					(642,633)		
January 20					(642,633)		

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>RESIDENTIAL BILL (\$)</u>
	<u>CENTS / KWH</u>	<u>RESIDENTIAL &amp; COMMERCIAL @ 500 KWH</u>	
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
April 1, 2019	16.469	183.12	219.17
May 1, 2019	17.396	188.74	225.93
June 1, 2019	17.318	187.89	224.90
July 1, 2019	16.450	183.46	219.63
August 1, 2019	15.331	178.14	213.25
September 1, 2019	14.845	175.70	210.32
October 1, 2019	14.692	174.93	209.40
November 1, 2019	16.302	181.76	217.59
December 1, 2019	16.288	181.82	217.67
January 1, 2020	16.768	185.37	221.88

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

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
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
3/1/2019-3/31/19	PURCHASED POWER ADJUSTMENT CLAUSE	1.8372 CENTS/KWH
04/1/2019-4/30/19	PURCHASED POWER ADJUSTMENT CLAUSE	1.8247 CENTS/KWH
04/1/19-04/30/19	SOLARSAVER ADJUSTMENT	-0.0768 CENTS/KWH
05/01/2019-5/31/19	PURCHASED POWER ADJUSTMENT CLAUSE	1.9460 CENTS/KWH
<b>05/01/2019</b>	<b>SOLARSAVER ADJUSTMENT</b>	<b>0.0000 CENTS/KWH</b>
06/01/2019-6/30/19	PURCHASED POWER ADJUSTMENT CLAUSE	1.9474 CENTS/KWH
6/1/2019-12/31/2019	RBA RATE ADJUSTMENT	0.9069 CENTS/KWH
7/01/2019-7/31/19	PURCHASED POWER ADJUSTMENT CLAUSE	1.9539 CENTS/KWH
7/1/2019-12/31/2019	GREEN INFRASTRUCTURE FEE	1.1700 DOLLARS/MONTH
7/1/2019-12/31/2019	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.4775 CENTS/KWH
8/1/2019-8/31/2019	PURCHASED POWER ADJUSTMENT CLAUSE	2.0075 CENTS/KWH
9/1/2019-9/30/2019	PURCHASED POWER ADJUSTMENT CLAUSE	2.0060 CENTS/KWH
10/1/2019-10/31/2019	PURCHASED POWER ADJUSTMENT CLAUSE	2.0069 CENTS/KWH
11/1/2019-11/30/2019	PURCHASED POWER ADJUSTMENT CLAUSE	1.7616 CENTS/KWH
12/1/2019-12/31/2019	PURCHASED POWER ADJUSTMENT CLAUSE	1.7884 CENTS/KWH
<b>1/1/2020-1/31/2020</b>	<b>PURCHASED POWER ADJUSTMENT CLAUSE</b>	<b>1.7730 CENTS/KWH</b>
<b>1/1/2020</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.2500 DOLLARS/MONTH</b>
<b>1/1/2020</b>	<b>RBA RATE ADJUSTMENT</b>	<b>0.1852 CENTS/KWH</b>
<b>1/1/2020</b>	<b>INTERIM RATE ADJUSTMENT 2019</b>	<b>4.0900 PERCENT ON BASE</b>
<b>1/1/2020</b>	<b>RESIDENTIAL PBF SURCHARGE ADJUSTMENT</b>	<b>0.7437 CENTS/KWH</b>

\*\*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			
	12/01/19	1/01/20	12/01/19	1/01/20	Difference	
<b>Base Rates</b>	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
<b>Total Base Charges</b>				\$83.35	\$83.35	\$0.00
<b>Interim Rate Adjustment 2019 TY</b>	% on base	0.0000%	4.0900%	\$0.00	\$3.41	\$3.41
<b>RBA Rate Adjustment</b>	¢/kwh	0.9069	0.1852	\$4.53	\$0.93	-\$3.60
<b>Purchased Power Adj. Clause</b>	¢/kwh	1.7884	1.7730	\$8.94	\$8.87	-\$0.07
<b>PBF Surcharge</b>	¢/kwh	0.4775	0.7437	\$2.39	\$3.72	\$1.33
<b>DSM Adjustment</b>	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>SolarSaver Adjustment</b>	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>Energy Cost Recovery</b>	¢/kwh	16.2880	16.7680	\$81.44	\$83.84	\$2.40
<b>Green Infrastructure Fee</b>	\$	1.1700	1.2500	\$1.17	\$1.25	\$0.08
<b>Avg Residential Bill at 500 kwh</b>				\$181.82	\$185.37	
				Increase (Decrease -)	\$3.55	
				% Change	1.95%	

	Rate		Charge (\$) at 600 Kwh			
	12/01/19	1/01/20	12/01/19	1/01/20	Difference	
<b>Base Rates</b>	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
<b>Total Base Charges</b>				\$99.73	\$99.73	\$0.00
<b>Interim Rate Adjustment 2019 TY</b>	% on base	0.0000%	4.0900%	\$0.00	\$4.08	\$4.08
<b>RBA Rate Adjustment</b>	¢/kwh	0.9069	0.1852	\$5.44	\$1.11	-\$4.33
<b>Purchased Power Adj. Clause</b>	¢/kwh	1.7884	1.7730	\$10.73	\$10.64	-\$0.09
<b>PBF Surcharge</b>	¢/kwh	0.4775	0.7437	\$2.87	\$4.46	\$1.59
<b>DSM Adjustment</b>	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>SolarSaver Adjustment</b>	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>Energy Cost Recovery</b>	¢/kwh	16.2880	16.7680	\$97.73	\$100.61	\$2.88
<b>Green Infrastructure Fee</b>	\$	1.1700	1.2500	\$1.17	\$1.25	\$0.08
<b>Avg Residential Bill at 600 kwh</b>				\$217.67	\$221.88	
				Increase (Decrease -)	\$4.21	
				% Change	1.93%	