

SHARON M. SUZUKI President March 27, 2019

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2019 MAR 27 A II: 38

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 April 2019

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") Energy Cost Recovery factor for April 2019 is 16.469 cents per kilowatt-hour ("kWh"), an increase of 1.49 cents per kWh from last month.

Hawai'i Electric Light's fuel composite cost of generation increased 178.62 per million BTU to 1,439.13 cents per million BTU. The distributed generation decreased 0.21 cents per kWh to 15.245 cents per kWh. The composite cost of purchased energy increased 0.41 cents per kWh to 13.309 cents per kWh.

A residential customer consuming 500 kWh of electricity will be paying \$183.12, an increase of \$7.02 compared to rates effective March 1, 2019. The increase in the typical residential bill is due to the increase of (+\$7.47) of the Energy Cost Recovery Factor, the decrease in the Purchased Power Adjustment rate (-\$0.07), and the decrease in the Solar Saver Adjustment rate (-\$0.38).

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 April 1, 2019.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

Shaw M Ayler

ENERGY COST RECOVERY FACTOR

	EFFECTIV	E DATES	
	3/01/19	4/01/19	<u>Change</u>
Composite Cost			
Generation, ¢/mmbtu Dispersed Generation Energy, ¢/kWh Purchased Energy, ¢/kWh	1,260.51 15.454 12.899	,	178.62 (0.21) 0.41
Residential Schedule "R"			
Energy Cost Recovery - ¢/kWh	14.976	16.469	1.49
Others - "G,J,P,F"			
Energy Cost Recovery - ¢/kWh	14.976	16.469	1.49
Residential Customer with:			
500 KWH Consumption - \$/Bill 600 KWH Consumption - \$/Bill	\$176.10 \$210.75	\$183.12 \$219.17	\$7.02 \$8.42

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

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

Line

1 Effective Date April 1, 2019 2 Supercedes Factors of March 1, 2019

GENERATION COMPONENT

	_	ENTRAL STATI	אם אודם אואס.	HYDRO COMPON	VENT I		
	<u></u>			ITT DRO COMPO	<u>ALIAI</u>		
	3	FUEL PRICES,	¢/mmbtu				
		I III In alcontain			4 400 00		
	4	Hill Industrial			1,133.03		
	5	Puna Industrial			1,144.86		
	6	Keahole Diesel			1,739.84		
	6a	Keahole ULSD			1,636.48		
	7	Waimea ULSD [Diesel		1,636.86		
	8	Hilo Diesel			1,711.44		
	8a	Hilo (Kanoelehua	a) ULSD Diesel ¹		1,602.31		
	9	Puna Diesel	.,		1,713.05	DG ENERGY COMPONENT	
	10	Wind			0.00	35 COMPOSITE COST OF DG	
	11	Hydro			0.00	ENERGY, ¢/kWh	15.24
						36 % Input to System kWh Mix	0.12
		BTU MIX, %					
	12					37 WEIGHTED COMPOSITE DG ENERGY COST,	
	13	Hill Industrial			32.842	¢/kWh (Lines 35 x 36)	0.0185
	14	Puna Industrial			6.063	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	15	Keahole Diesel			41.879	38 BASE DG ENERGY COMPOSITE COS	0.00
5a	.0	Keahole ULSD			0.337	55 Bride Bo Erierto i Goivil Goire Goo	0.00
Ja	16	Waimea ULSD	Diocal		0.337	20 Page 9/ Input to System WA/h Mix	0.0
	16		Diesei			39 Base % Input to System kWh Mix	0.0
	17	Hilo Diesel			5.326	40 WEIGHTED BASE DG ENERGY COST,	
7a		Hilo (Kanoelehua	a) ULSD Diesel ¹		0.386		
	18	Puna Diesel			9.299	¢/kWh (Line 38 x 39)	0.0000
	19	Wind			0.000		
	20	Hydro			3.451	41 Cost Less Base (Line 37 - 40)	0.0185
		,			100.000	42 Loss Factor	1.07
	21	COMPOSITE CO	OST OF GENER	ATION	100.000	43 Revenue Tax Req Multiplier	1.097
	۱ ک		ATION + WIND/H		1,439.13	44 DG FACTOR, ¢/kWh	1.037
	20			IT DRO ¢/IIIIIblu			0.0040
	22	% Input to Syste	m kvvn iviix		54.519	(Line 41 x 42 x 43)	0.0218
		EFFICIENCY FA	ACTOR, mmbtu/k	κWh			
		(A)	(B)	(C)	(D)		
				Percent of			
			Eff Factor	Centrl Stn +	Weighted		
		Fuel Type	mmbtu/kwh	Wind/Hydro	Eff Factor		
	23	Industrial	0.014569	38.905	0.005668		
	24	Diesel	0.010480	57.644	0.006041		
	25			3.451	0.000041		
	25	Other	0.012395	3.431	0.000426		
		(Lines 23, 2					
	26	Weighted Efficie		tu/kWh			
		[Lines 23(D) +	24(D) + 25(D)]		0.0121370		
	27	WEIGHTED CO	MPOSITE CENT	RAL STATION +			
		WIND/HYDRO	GENERATION (COST, ¢/kWh			
		(Lines (21 x 22	x 26))		9.52261		
		((- : : :	//		******		
	28	BASE CENTRA	STATION + W/	IND/HYDRO			
	20				0.00		
	20		ON COST, ¢/mml	biu			
		Base % Input to			0.00		
		Efficiency Factor			0.000000		
	31	WEIGHTED BA					
		WIND/HYDRO	GENERATION (COST ¢/kWh			
		(Lines (28 x 2		•	0.00000		
		, , ,	,,			SUMMARY OF	
	32	COST LESS BA	SF (Line 27 - 31))	9.52261	TOTAL GENERATION FACTOR, ¢/kWh	
		Revenue Tax Re	•	,	1.0975	45 Cntrl Stn+Wind/Hydro (line 34)	10.4510
				/DBO	1.0873		
	34	CENTRAL STAT		טועט		46 DG (line 44) 47 TOTAL GENERATION FACTOR,	0.0218
						47 TOTAL GENERATION FACTOR	
		GENERATION F ¢/kWh (Line (3			10.45106	¢/kWh (lines 45 + 46)	10.4729

 $^{^{\}mathrm{1}}\,$ Hilo ULSD same location as Kanoelehua ULSD

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

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

ne	PURCHASED EN	IERGY COMPONE	NT_				
	DI IBCHASED ENERCY DRI	CE d/k/Mb Ecosil					
10	PURCHASED ENERGY PRICHEP	CE, ¢/KVVN FOSSII	13.314				
40	ПЕР		13.314				
	PURCHASED ENERGY PRI	CF #/kWh Renewahl	Δ				
49	PGV	On Peak	15.876				
	PGV	Off Peak	14.501				
	PGV - Add'l 5 MW	On Peak	13.050				
	PGV - Add'I 5 MW	Off Peak	13.050				
	PGV - Add'l 8 MW						
		On Peak	9.950				
	PGV - Add'l 8 MW	Off Peak	6.640				
	Wailuku Hydro	On Peak	15.876				
	Wailuku Hydro	Off Peak	14.501				
57	Hawi Renewable Dev.	On Peak	15.876				
58	Hawi Renewable Dev.	Off Peak	14.501				
59	Tawhiri (Pakini Nui)	On Peak	11.770				
60	Tawhiri (Pakini Nui)	Off Peak	11.850				
61	•						
	Small Hydro (>100 KW)	On Peak	15.876				
	Small Hydro (>100 KW)	Off Peak	14.501				
	Sch Q Hydro (<100 KW)		14.950				
	FIT		23.800				
50			_5.550				
	PURCHASED ENERGY KWI	H MIX % Fossil					
66	HEP	11 10117, 70, 1 03311	60.513				
00	HEF		00.515				
	DUDGUACED ENEDGY KINI	LMIV 0/ Damassahla					
07	PURCHASED ENERGY KWI		0.000				
	PGV	On Peak	0.000				
	PGV	Off Peak	0.000				
	PGV - Addt'l	On Peak	0.000				
70	PGV - Addt'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	3.234				
74	Wailuku Hydro	Off Peak	2.280				
	Hawi Renewable Dev.	On Peak	5.346				
	Hawi Renewable Dev.	Off Peak	2.932				
	Tawhiri (Pakini Nui)	On Peak	14.231	Derivation	of No	on-Adjustable Component:	
	` ,	Off Peak	10.448	Bonvacion	o ••	on rajustable compensite.	
79	rawriiir (rakii ii radi)	Oli i eak	10.440	93A		Occan Cargo Incurance Eva #000	
	0 1111 1 (1001010	0 5 1	0.000	93A		Ocean Cargo Insurance Exp, \$000	
	Small Hydro (>100 KW)	On Peak	0.000			HELCO-R-503, page 1, line 4	
	Small Hydro (>100 KW)	Off Peak	0.000	93B		Revenue Tax Adjustment	
82	Sch Q Hydro (<100 KW)		0.231	93C		Non-Adj Revenues, \$000	
83	FIT		0.785	93D		2016 TY Sales, MWh	
			100.000			HELCO-WP-302z	
				93E		Non-Adj Revenues, ¢/kWh	
832	Comp. Cost Purchased Energ	av Fossil ¢/kWh	13.3140			, ,,	
	Comp. Cost Purchased Energy Comp. Cost Purchased Energy		13.3016				
			10.0010				
	COMPOSITE COST OF DUIL	NOI IASED	12 200				
	COMPOSITE COST OF PUF						
84	ENERGY, ¢/kWh		13.309				
84 85	ENERGY, ¢/kWh % Input to System kWh Mix	UD 0114 055 5::55 5::	45.359				
84 85	ENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PI		45.359				
84 85	ENERGY, ¢/kWh % Input to System kWh Mix						
84 85	ENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PI		45.359				
84 85 86	ENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PI	39))	45.359				
84 85 86	ENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PI COST, ¢/kWh (Lines (88 x 8	39)) SY	45.359	<u>Line</u>		SYSTEM COMPOSIT	
84 85 86 87	ENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PI COST, ¢/kWh (Lines (88 x 8 BASE PURCHASED ENERG	39)) SY	45.359 6.03678	<u>Line</u>		SYSTEM COMPOSIT	<u>TE</u>
84 85 86 87 88	ENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PI COST, ¢/kWh (Lines (88 x 8 BASE PURCHASED ENERG COMPOSITE COST, ¢/kWh Base % Input to Sys kWh Mix	39)) SY O	45.359 6.03678 0.000	<u>Line</u>	94		
84 85 86 87 88	ENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PI COST, ¢/kWh (Lines (88 x 8 BASE PURCHASED ENERG COMPOSITE COST, ¢/kWh Base % Input to Sys kWh Mix WEIGHTED BASE PURCHA	39)) SY O C SED ENERGY	45.359 6.03678 0.000 0.00	<u>Line</u>	94	GENERATION AND PURCHASED ENER	:GY
84 85 86 87 88	ENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PI COST, ¢/kWh (Lines (88 x 8 BASE PURCHASED ENERG COMPOSITE COST, ¢/kWh Base % Input to Sys kWh Mix	39)) SY O C SED ENERGY	45.359 6.03678 0.000	<u>Line</u>		GENERATION AND PURCHASED ENER FACTOR, ¢/kWh (Lines (47 + 93))	
84 85 86 87 88 89	ENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PI COST, ¢/kWh (Lines (88 x 8 BASE PURCHASED ENERG COMPOSITE COST, ¢/kWh Base % Input to Sys kWh Mix WEIGHTED BASE PURCHA COST, ¢/kWh (Lines (91 x 9)	39)) SY O C SED ENERGY 92))	45.359 6.03678 0.000 0.00 0.000	<u>Line</u>	95	GENERATION AND PURCHASED ENER FACTOR, ¢/kWh (Lines (47 + 93)) Not Used	:GY
84 85 86 87 88 89	ENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PI COST, ¢/kWh (Lines (88 x 8 BASE PURCHASED ENERG COMPOSITE COST, ¢/kWh Base % Input to Sys kWh Mix WEIGHTED BASE PURCHA COST, ¢/kWh (Lines (91 x 9) COST LESS BASE (Lines (9))	39)) SY O C SED ENERGY 92))	45.359 6.03678 0.000 0.00 0.00000 6.03678	<u>Line</u>	95 96	GENERATION AND PURCHASED ENER FACTOR, ¢/kWh (Lines (47 + 93)) Not Used Non-Adjustable Component	:GY
84 85 86 87 88 89 90 91	ENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PICOST, ¢/kWh (Lines (88 x 8) BASE PURCHASED ENERG COMPOSITE COST, ¢/kWh Base % Input to Sys kWh Mix WEIGHTED BASE PURCHA COST, ¢/kWh (Lines (91 x 9) COST LESS BASE (Lines (9) Loss Factor	39)) SY O C SED ENERGY 92))	45.359 6.03678 0.000 0.00 0.00000 6.03678 1.072	Line	95 96 97	GENERATION AND PURCHASED ENER FACTOR, ¢/kWh (Lines (47 + 93)) Not Used Non-Adjustable Component ECA Reconciliation Adjustment	:GY
84 85 86 87 88 89 90 91 92	ENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PI COST, ¢/kWh (Lines (88 x 8 BASE PURCHASED ENERG COMPOSITE COST, ¢/kWh Base % Input to Sys kWh Mix WEIGHTED BASE PURCHA COST, ¢/kWh (Lines (91 x 9) COST LESS BASE (Lines (9))	39)) SY 0 0 SED ENERGY 92)) 0 - 93))	45.359 6.03678 0.000 0.00 0.00000 6.03678	Line	95 96 97	GENERATION AND PURCHASED ENER FACTOR, ¢/kWh (Lines (47 + 93)) Not Used Non-Adjustable Component	:GY

Hawaii Electric Light Company, Inc.

FUEL OIL INVENTORY PRICES FOR April 1, 2019

INDUSTRIAL FUEL COSTS: Average Industrial Fuel Cost - \$/BBL Land Transportation Cost - \$/BBL	<u>HILO</u> 71.3811 	<u>PUNA</u> 71.3811 0.7454		
Industrial Costs For Filing - \$/BBL Conversion Factors - mmbtu/BBL	71.3811 6.30	72.1265 6.30		
Industrial Costs For Filing - ¢/mmbtu	1,133.03	1,144.86		
DIESEL FUEL COSTS: Average Diesel Fuel Cost - \$/BBL Land Transportation Cost - \$/BBL	KEAHOLE 99.2285 2.7264	PUNA CT-3 99.2285 1.1561	HILO 99.2285 1.0620	
Diesel Costs For Filing - \$/BBL Conversion Factors - mmbtu/BBL	101.9549 5.86	100.3846 5.86	100.2905 5.86	
Diesel Costs For Filing - ¢/mmbtu	1,739.84	1,713.05	1,711.44	:
ULSD FUEL COSTS: Average ULSD Fuel Cost - \$/BBL Land Transportation Cost - \$/BBL	KEAHOLE 90.4791 3.2912	WAIMEA 90.4791 3.3130	HILO 90.4791 1.3331	DISPERSED GENERATION 90.4791 -
ULSD Costs For Filing - \$/BBL Conversion Factors - mmbtu/BBL	93.7703 5.73	93.7922 5.73	91.8122 5.73	90.4791 5.73
ULSD Costs For Filing - ¢/mmbtu	1,636.48	1,636.86	1,602.31	1,579.04

COMPOSITE COST

Dispersed Generation, cents per kWh

	OF DISP. GEN.
BBIs Fuel:	187.8669
\$/BBI Inv Cost:	90.4791
Fuel \$ (Prod Sim Consumption x Unit Cost)	16,998.03
Net kWh (from Prod Sim)	111,500
cents/kWh:	15.245

Estimated Weighted Average
March 2019

SHIPMAN INDUSTRIAL HILL INDUSTRIAL

	SHIFIVIAIN	INDUSTRIAL	HILL INDUS	TRIAL			
					COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 02/28/2019	0	0.00	31,421	1,853,185.76			
Less: Est'd Inventory Addn			(4,796)	(396,679.79)			
Purchases: Estimate	xxxxxx xxx	xxxxxxxxxx	xxxxxxx x	xxxxxxxxxxx			
Actual	XXXXXX XXX	xxxxxxxxxx	XXXXXXXX XX	XXXXXXXXXXXXX			
Transfers out: Estimate	xxxxxx xxx	xxxxxxxxxx	xxxxxxx x	xxxxxxxxxxx			
Actual	XXXXXX XXX	XXXXXXXXXXX	XXXXXXXX XX	XXXXXXXXXXXXX			
Transfers in: Estimate	0	0.00	(17,501)	(1,050,840.77)			
Actual	0	0.00	28,651	1,984,755.89			
Consumed: Estimate	0	0.00	31,304	1,941,526.31			
Actual	0	0.00	(30,424)	(1,886,947.24)			
Balance Per G/L 02/28/2019	0	0.00	38,655	2,445,000.15			
Purchases	xxxxxx xxx	xxxxxxxxxx	xxxxxxx x	xxxxxxx xxxxxxxxxxxx			
Transfer out	xxxxxx xxx	xxxxxxxxxxx	xxxxxxx x	xxxxxxx xxxxxxxxxxxx			
Transfer in	0	0.00	30,805	2,500,280.88			
Consumed	0	0.00	(29,515)	(1,851,391.77)	106.5901	0.0000	106.5901
Balance @ 03/31/2019	0	0.00	39,945	3,093,889.26			
Inv From Offsite/Transfers	0	0.00	0	0.00			
Est'd Inventory Addition	0	0.00	0	0.00			
Fuel Balance @ 03/31/2019	0	0.00	39,945	3,093,889.26			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxxx	(3,093,889.26)			
Fuel Bal @ Avg Price	xxxxx	0.00	xxxxxxx	2,851,317.14			
Total @ 04/01/2019 Avg Price	0	0.00	39,945	2,851,317.14			

Weighted Avg Cost/BBL by Location #DIV/0! 77.4537

Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 71.3811

Estimated Weighted Average March 2019

PUNA INDUSTRIAL

			LAND	COST PER BA		
	BBL	COST	TRANSP	EXCLUDE LT	LT	TOTAL
Balance at 02/28/2019	6,456	210,864.69	7,746.08			
, , , , ,	-,	-,	,			
Less: Est'd Inventory Addition	0	0.00	0.00			
, , , , , , , , , , , , , , , , , , , ,						
Purchases: Estimate	xxxxxxxxxxxx	«xxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxx			
Actual			xxxxxxxxxxxxxxxxxx			
Accuai	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Transfers out: Estimate	**********	/vvvvvvvvvvvvvv	xxxxxxxxxxxxxxxxxx			
Actual						
Actual	*******	***********	xxxxxxxxxxxxxxxx			
Transfers in: Estimate	(4,721)	(133,008.14)	(5,645.09)			
Actual	5,386	130,241.41	2,488.33			
Consumed: Estimate	5,772	357,989.07	8,793.63			
			•			
Actual	(5,099)	(316,248.49)	(7,482.87)			
D-1-7 D-7 C/L 02/20/2010	7 704	240 020 54	F 000 00			
Balance Per G/L 02/28/2019	7,794	249,838.54	5,900.08	_		
Purchases	xxxxxxxxxxx	(XXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	(XXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXX			
Transfer in	4,434	339,599	5,301.91			
			<i>t</i> ==			
Consumed	(4,593)_	(288,105.79)	(5,510.80)	62.7271	1.1998	63.9270
Balance @ 03/31/2019	7,635	301,331.27	5,691.19			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	7,635	301,331.27	5,691.19		0.7454	
Reverse Fuel Balance	xxxxxxxxxx	(301,331.27)	xxxxxxxxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxx	544,994.53	xxxxxxxxxxxxxxxxxx			
		•				
Total @ 04/01/2019 Avg Price	7,635	544,994.53	5,691.19	=		
	,	, ,-	-,			
Weighted Avg Cost/BBL by Location		39.4671	0.7454			
The Parties with a cost and by focation		33.4071	0.7434			
Weighted Avg Cost/BBL @ Avg Cost		71.3811	0.7454			
Weighted Avg Cost/BBL @ Avg Cost		/1.3611	0.7454			

Estimated Weighted Average March 2019

KEAHOLE CT

Weighted Avg Cost/BBL @ Avg Cost

		KEAHOLE CT					
			COST	LAND	COST PER	BARREL	
HS Diesel	BBL	GALLONS	EXCLUDE LT	TRANSP	EXCLUD LT	LT	TOTAL
Balance at 02/28/2019	44,763.3	1,880,058.6	3,653,788.9	141,997.2			
Less: Est'd Inventory Addition	(5,235.6)	(219,896.6)	(442,424.7)	(15,184.9)			
·							
Purchases: Estimate	0.0	0.0	0.0	0.0			
Actual	0.0	0.0	0.0	0.0			
Transfers out: Estimate		xxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Actual				XXXXXXXXXXXXXXXXX			
7.000.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Transfers in: Estimate	(30,841.2)	(1,295,331.0)	(2,525,938.4)	(87,693.9)			
Actual	38,921.2	1,634,690.0	3,330,691.2	107,892.27			
Accuai	30,321.2	1,054,050.0	3,330,031.2	107,032.27			
Consumed: Estimate	46,616.5	1,957,892.0	3,849,571.2	147,374.07			
Actual	(45,117.8)			•	82.5796		
Actual	(43,117.6)	(1,034,347.0)	(3,723,603.5)	(141,620.3)	62.3790		
Balance Per G/L 02/28/2019	49,106.3	2,062,466	4,139,878.42	152,558.28	84.3044		
Balance Fel G/L 02/20/2019	49,100.3	2,002,400	4,133,676.42	132,336.26	64.3044		
Purchases	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Purchases	******	**********	******	XXXXXXXXXXXXXXXXX			
Transfer out	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Transfer out	******		******	XXXXXXXXXXXXXXXXX			
Transfer in	48,611.1	2 041 666 0	4 7E1 06E 7	120 220 0	97.7362		
Transfer in	40,011.1	2,041,666.0	4,751,065.7	138,220.8	97.7302		
Consumed	(54.652.0)	(2.205.462.0)	(4 511 060 0)	(172 271 05)	02 5200	2 1722	05 7111
Consumed	(54,653.9)	(2,295,462.0)	(4,511,069.9)	(173,371.85)	82.5389	3.1722	85.7111
Dalawa	42.062.6	4 000 670	4 270 074 24	447.407.22	404 7072		
Balance @ 03/31/2019	43,063.6	1,808,670	4,379,874.21	117,407.22	101.7072		
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	43,063.6	1,808,670	4,379,874.21	117,407.22	101.7072		
Reverse Fuel Balance	xxxxxxxxxxx	xxxxxxxxxxxx	(4,379,874.2)	XXXXXXXXXXXXXXXX			
Fuel Balance @ Avg Price	xxxxxxxxxxx	xxxxxxxxxxxxx	4,273,134.4	XXXXXXXXXXXXXXXX			
Total @ 04/01/2019 Avg Price	43,063.6	1,808,670	4,273,134.45	117,407.22	99.2285		
<u> </u>							
Weighted Avg Cost/BBL by Location			101.7072	2.7264			
5 5 7							

2.7264

99.2285

Estimated Weighted Average March 2019

PUNA CT-3

			COST	LAND	COST PER E	ARREL	
HS Diesel	BBL	GALLONS	EXCLUD LT	TRANSP	EXCL LT	LT	TOTAL
Balance at 02/28/2019	5,581.6	234,427.2	472,158.6	8,413.3			
Less: Est'd Inven Addition	(4,227.9)	(177,570.2)	(357,265.4)	(4,687.9)			
Purchases: Estimate	X	xxxxxxxxxxxxx					
Actual	X	xxxxxxxxxxxx	XXXXXXXXXXX				
Transfers out: Estimate		xxxxxxxxxxxx					
Actual	X	xxxxxxxxxxxx					
Tropoforo in Fotimento	(4.042.2)	(202 272 0)	(405 222 2)	(F 2C0 0)			
Transfers in: Estimate	(4,842.2)	(203,372.0)					
Actual	5,530.1	232,266.0	511,158.8	6,279.5			
Consumed: Estimate	7,396.1	310,636.0	610,766.8	4,436.8			
Actual	(5,436.5)	(228,334.0)	•	(3,261.3)			
Actual	(3,430.3)	(228,334.0)	(440,940.1)	(3,201.3)			
Balance Per G/L 02/28/2019	4,001.3	168,053	382,650.47	5,811.35			
	4,001.3	100,033	302,030.47	3,011.33			
Purchases	xxxxxxxxxxx x	xxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxx			
Transfer out	xxxxxxxxxx x	xxxxxxxxxxxx	xxxxxxxxxxx	xxxxxxxxxx			
Transfer in	4,771.8	200,414.0	435,797.6	5,290.9	91.3285		
Consumed	(2,732.8)	(114,776)	(225,559.19)	(4,119.15)	82.5389	1.5073	84.0462
Balance @ 03/31/2019	6,040.3	253,691	592,888.92	6,983.13	98.1562		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 03/31/2019	6,040.3	253,691	592,888.92	6,983.13	98.1562		
Reverse Fuel Balance		xxxxxxxxxxxx					
Fuel Balance @ Avg Price	xxxxxxxxxx x	xxxxxxxxxxxxx	599,366.25	xxxxxxxxxx			
Total @ 04/01/2019 Avg Price	6,040.3	253,691	599,366.25	6,983.13	99.2285		
·							
Weighted Avg Cost/BBL by Location			98.1562	1.1561			
Weighted Avg Cost/BBL @ Avg Cost			99.2285	1.1561			

Estimated Weighted Average March 2019

TOTAL HILO HS-DIESEL

		TOTAL HILO	III DILULE						
			COST	LAND	COST PER	BARREL			
HS Diesel	BBL	GALLONS	EXCLUDE LT	TRANSP	EXCL LT	LT	TOTAL		
Balance at 02/28/2019	1575.8	66,182	129,771	1,716					
Less: Est'd Inven Addition	0.0	0	0	0					
Purchases: Estimate		xxxxxxxxxx	xxxxxxxxxx	xxxxxxxxx					
Actual	;	xxxxxxxxxx	xxxxxxxxxx	XXXXXXXXXX					
Transfers out: Estimate	:	xxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxx					
Actual		XXXXXXXXXXX XXXXXXXXXXX XXXXXXXXXXX							
Transfers in: Estimate	-378.9	-15915.0		-370.8					
Actual	378.9	15915.0	34126.2	370.0					
Caracana da Fatina d	550.0	22.470.0	46464.5	507 :					
Consumed: Estimate	559.0	23479.0		537.4					
Actual	-458.0	-19236.0	-37821.5	-440.3					
Balance Per G/L 02/28/2019	1676.8	70.425	140,290.04	1,812.48	83.6661				
Balance Fel G/L 02/28/2019	1070.8	70,423	140,290.04	1,012.40	65.0001				
Purchases	vvvvvvvvvvv	vvvvvvvvvvv	XXXXXXXXXXX	vvvvvvvvvvv					
i dicitases	***********	^^^^^		**********					
Transfer out	xxxxxxxxxxx	xxxxxxxxxxx	XXXXXXXXXXX	xxxxxxxxxxx					
Transfer out	70000000000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Transfer in	376.0	15793.0	34624.2	370.0	0.0000				
Consumed	-91.0	-3822.0	-7511.0	-99.1	82.5389	1.0891	83.6280		
Balance @ 03/31/2019	1,961.8	82,396	167,403.17	2,083.37	85.3310				
Inven From Offsite/Transfers	0.0	0.0		0.0					
Est'd Inventory Addition	0.0	0.0	0.0	0.0					
•									
Fuel Balance @ Avg Price	1,961.8	82,396	167,403.17	2,083.37	85.3310				
Reverse Fuel Balance	xxxxxxxxxx	xxxxxxxxxx	-167,403.17	xxxxxxxxxx					
Fuel Balance @ Avg Price	xxxxxxxxxx	xxxxxxxxxx	194,667.46	xxxxxxxxxx					
Total @ 04/01/2019 Avg Price	1,961.8	82,396	194,667.46	2,083.37	99.2285				
Weighted Avg Cost/BBL by Location			85.3310	1.0620					
Weighted Avg Cost/BBL @ Avg Cost			99.2285	1.0620					

Estimated Weighted Average March 2019

KEAHOLE DIESEL

		KEAHOLE DIES)LL				
			COST	LAND	COST PER BARREL		
ULSD	BBL	GALLONS	EXCLUDE LT	TRANSP	EXCLUD LT	LT	TOTAL
Balance at 02/28/2019	2,202.1	92,490	197,150.45	7,243.55			
Loss: Est'd Inventory Addition	0.0						
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(379.4)	(15,933)	(33,459.30)	(1,078.67)			
Actual	189.4	7,953	16,978.04	0.00			
, tetaa.	103.1	7,555	10,370.01	0.00			
Transfers out: Estimate	;	XXXXXXXXXXXX	xxxxxxxxxxxx	xxxxxxxxxx			
Actual	:	xxxxxxxxxx	xxxxxxxxxxxxx	xxxxxxxxxxx			
Transfers in: Estimate		(26)	0.00	(1.76)			
Actual		(87)	0.00	538.42			
Consumed: Estimate	98.7	4,146	9,238.50	314.47			
Actual	(66.1)	(2,776)	(6,185.74)	(210.55)	93.5883		
Balance Per G/L 02/28/2019	2,042.1	85,767	183,721.96	6,805.45	89.9684		
Durchases	0.0	0	0.00	0.00	0.0000		
Purchases	0.0	U	0.00	0.00	0.0000		
Estimated Purchases	190.0	7,980	16,678.20	540.25			
Estimated Farenases	150.0	7,500	10,070.20	540.25			
Transfer in	(0.9)	(37)	0.00	(2.50)	0.00		
	, ,			, ,			
Consumed	(73.3)	(3,078)	(6,721.81)	(241.06)	91.7206	3.2893	95.0100
Balance @ 03/31/2019	2,157.9	90,632	193,678.34	7,102.13	89.7530		
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	2,157.9	90,632	193,678.34	7,102.13	89.7530		
Reverse Fuel Balance	XXXXXXXXXXX	xxxxxxxxxx) xxxxxxxxxxx			
Fuel Balance @ Avg Price	XXXXXXXXXXX	xxxxxxxxxx	195,245.30	xxxxxxxxxx			
Total @ 04/01/2010 Aug Bries	2.457.0	00.622	105 245 20	7 102 12	00.4704		
Total @ 04/01/2019 Avg Price	2,157.9	90,632	195,245.30	7,102.13	90.4791		
Weighted Avg Cost /DDI had acation			00.7530	2 2012			
Weighted Avg Cost/BBL by Location			89.7530	3.2912			
Weighted Avg Cost/PPL @ Avg Cost			90.4791	3.2912			
Weighted Avg Cost/BBL @ Avg Cost			90.4791	5.2912			

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

WAIMEA DIESEL

		WAIIVIEA DIES					
			COST	LAND	COST PER BARREL		
ULSD	BBL	GALLONS	EXCLUDE LT	TRANSP		LT	TOTAL
Palance at 02/28/2010	1 442 6	60 E 00 0	120 022 2	4 700 E1			
Balance at 02/28/2019	1,442.6	60,588.0	129,923.3	4,790.51			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Purchases: Estimate		(7,980)		(450.07)			
Actual		7,948.0	17,086.4	0.00			
Transfers out: Estimate		vvvvvvvvvvvvv	xxxxxxxxxxxxx	vvvvvvvvvvv			
Actual			XXXXXXXXXXXXXX				
Actual		**********	***********	********			
Transfers in: Estimate	16.8	705	0.00	0.00			
Actual	(16.5)	(693)	0.00	448.27			
Consumed: Estimate	311.6	13,089	29,166.13	1,031.97			
Actual	(218.5)	(9,179)	(20,453.50)	(723.69)			
Balance Per G/L 02/28/2019	1,535.2	64,478	138,964.36	5,096.98	90.5193		
Data Nee 1 et 6/2 02/20/2013	1,555.2	01,170	130,301.30	3,030.30	30.3133		
ULSD Purchases	0.0	0	0.00	0.00	#DIV/0!		
Estimated Purchases	-	0	0.00	0.00			
Transfer in	xxxxxxxxxxx	128	0.00	0.00	#DIV/0!		
Transfer in	XXXXXXXXXX	120	0.00	0.00	11017/0:		
Consumed	(94.5)	(3,971)	(8,671.97)	(313.97)	91.7206	3.3208	95.0415
Balance @ 03/31/2019	1,443.7	60,635	130,292.40	4,783.01	90.2495		
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	1,443.7	60,635	130,292.40	4,783.01	90.2495		
ruel Balance @ Avg Frice	1,443.7	00,033	130,232.40	4,763.01	30.2433		
Reverse Fuel Balance	xxxxxxxxxxx	xxxxxxxxxxx	(130,292.40)	xxxxxxxxxx			
Fuel Balance @ Avg Price		xxxxxxxxxxx		xxxxxxxxxx			
			,				
Total @ 04/01/2019 Avg Price	1,443.7	60,635	130,623.83	4,783.01	90.4791		
							
Weighted Avg Cost/BBL by Location			90.2495	3.3130			
Weighted Avg Cost/BBL @ Avg Cost			90.4791	3.3130			

Estimated Weighted Average March 2019

KANOELEHUA DIESEL

			COST	LAND		
ULSD	BBL	GALLONS	EXCLUDE LT	TRANSP		
Balance at 02/28/2019	1,343.4	56,424.0	130,681.3	1,541.4 		
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		х	х	х		
Actual		Х	X	х		
Transfers in: Estimate		0	0.00	0.00		
Actual		0	0.00	0.00		
Consumed: Estimate	118.9	4,994	967.04	26.58		
Actual	(90.7)	(3,808)	(10,457.32)	272.20		
Balance Per G/L 02/28/2019	1,371.7	57,610	121,191.03	1,840.19		
ULSD Purchases	0	0	0.00	0.00	#DIV/0!	
Estimated Purchases	190	-	-	-		
Transfer in	0	0	0.00	0.00		
Consumed	(61.8)	(2,595)	(967.04)	(26.58)	91.7206484	1.1474
Balance @ 03/31/2019	1,499.9	62,995	136,902.19	1,999.54		
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	1,499.9	62,995	136,902.19	1,999.54		
Reverse Fuel Balance	х	x	(136,902.19)	х		
Fuel Balance @ Avg Price	х	х		х		
Total @ 04/01/2019 Avg Price	1,499.9	62,995	135,707.89	1,999.54		
Weighted Avg Cost/BBL by Location			91.2754	1.3331		
Weighted Avg Cost/BBL @ Avg Cost			90.4791	1.3331		

Estimated Weighted Average March 2019

DISPERSED GENERATION

	ENERATION		
BBL	GALLONS	COST	COST/BBL
120.8	5,072	10,836.97	
0.0	xxxxxxx	xxxxxxxx	
0.0	0	0.00	
0.0	U	0.00	
9.8	410	913.60	
(9.6)	(404)	(102.80)	
xxxxxxxx	xxxxxxxxx	xxxxxxxxx	
XXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
xxxxxxxxx	xxxxxxxxx	XXXXXXXXXX	
XXXXXXXXX	xxxxxxxxx	XXXXXXXXXX	
120.90	5,078	11,647.77	96.3384
0.0	0	0.00	0.0000
xxxxxxxx	xxxxxxxxx	xxxxxxxxx	
xxxxxxxxx	xxxxxxxxx	xxxxxxxxx	
(3.5)	(146)	(318.84)	91.7206
117.4	4,932	11,328.93	96.4751
0.0	0	0.00	
117.4	4,932	11,328.93	
xxxxxxxxxxx	XXXXXXXXXXX	(11,328.93) x	XXXX
		10,624.83 x	
117.4	4,932	10,624.83	90.4791
	120.8 0.0 0.0 0.0 9.8 (9.6) XXXXXXXXXX XXXXXXXXX 120.90 0.0 XXXXXXXXXX (3.5) 117.4 0.0 117.4 XXXXXXXXXXX XXXXXXXXXX XXXXXXXXXX	120.8 5,072 0.0 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	120.8 5,072 10,836.97 0.0 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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

TYPE OF OIL BURNED

THE OF OIL BOTTINED				
	<u>Hill Industrial</u>		<u>Puna Ind</u>	<u>ustrial</u>
INDUSTRIAL *	¢/MBTU	\$/BBL	¢/MBTU	\$/BBL
Tax ¹	65.43	4.1217	65.43	4.1217
Ocean Transportation	53.51	3.2488	51.57	3.2488
Storage	31.16	2.1410	33.98	2.1410
Wharfage	6.43	0.3900	6.19	0.3900
Fees ²	0.83	0.0525	0.83	0.0525
	Hilo Die	esel	Waimea [Diesel
DIESEL *	¢/MBTU	\$/BBL	¢/MBTU	\$/BBL
Tax ¹	94.06	5.5118	94.06	5.5118
Ocean Transportation	55.44	3.2488	55.44	3.2488
Storage	28.34	1.6606	28.34	1.6606
Wharfage	6.66	0.3900	6.66	0.3900
Fees ²	1.79	0.1050	1.79	0.1050
	Kona Di	esel	CT3 Die	esel
	¢/MBTU	\$/BBL	¢/MBTU	\$/BBL
Tax ¹	94.06	5.5118	94.06	5.5118
Ocean Transportation	55.44	3.2488	55.44	3.2488
Storage	28.34	1.6606	28.34	1.6606
Wharfage	6.66	0.3900	6.66	0.3900
Fees ²	1.79	0.1050	1.79	0.1050
	ULSI)		
ULSD **	¢/MBTU	\$/BBL		
Tax ¹	26.38	1.9679		
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.

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

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

² Fees include Custom Duty and Fed Oil Spill Recovery

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

^{**} ULSD includes Waimea, Kanoelehua, and Keahole.

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

		April 1, 2019 (¢/kWh)	Floor Rates (¢/kWh)
PGV (25 MW)	- on peak	15.876	6.560
PGV (22 MW)	- off peak	14.501	5.430
WAILUKU HYDRO	- on peak	15.876	7.240
	off peak	14.501	5.970
Other: (<100 KW)	Sch Q Rate	14.950	
		April 1, 2019 (¢/kWh)	Floor Rates (¢/kWh)
HEP		13.314	
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

April 1, 2019

Line No.	<u>Description</u>	<u>Amount</u>
1	Amount to be (returned) or collected	(\$2,598,900)
2	Monthly Amount (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 (April 1, 2019)	85,860 mwh
6	Adjustment (Line 4 / Line 5)	(1.107) ¢/kwh

2019 Cumulative Reconciliation Balance

	(1)		(2) FOA Rec	(3) FOA Rec	(4)	(5)	(6) Month-end
	YTD FOA		Adjust	Less	Try to	Actual	Cumulative
<u>Month</u>	Reconciliation	Qtr	<u>Variance</u>	<u>Variance</u>	<u>Collect</u>	Collect	Balance
14101141	rtocorromation	<u>Q.:.</u>	<u>variance</u>	variarios	<u> </u>	<u> </u>	<u> Dalarioo</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)	(800,636)	1,839,091
March					(866,300)		
April					(866,300)		
NOTES:							
Col(1):	Quarterly FOA	recor	nciliation amo	ounts. (Refer	to Attachment	6)	
	A positive num	ber is	an over-coll	ection. A neg	gative number i	s an under-co	llection.
Col(2):	FOA reconcilia	tion a	djustment va	ariance accun	nulated during t	the last three r	months,
	starting with the	e four	th prior mon	th; the differe	nce between th	e estimated re	ecorded
	sales used to d	lerive	the \$/kwh ac	djustment and	d the actual rec	orded sales.	
	(Col(5)-Col(4))			-			
Col(3):	, . , , , , , , , , , , , , , , , ,	tion g	enerated in t	the current qu	uarter. The YTI	D FOA recond	iliation
. ,	difference minu	_		•			
Col(4):			•		nt is trying to co	llect. (Col(1) *	1/3)

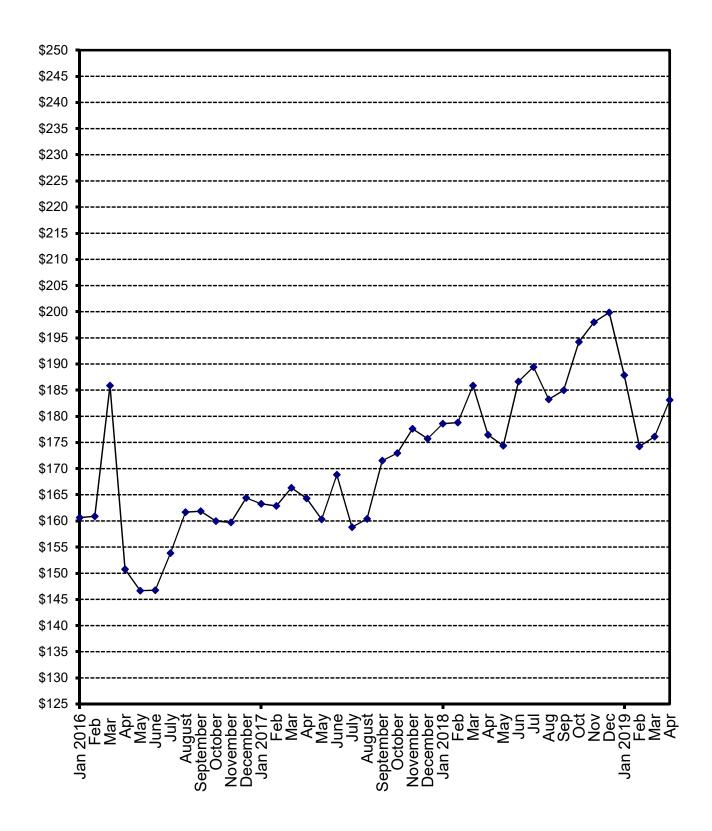
Actual collected amount. (recorded sales * \$/kwh adjustment/1.09751)

Cumulative balance of the FOA reconciliation (Previous balance + Col(3) + Col(5))

Col(5):

Col(6):

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



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

FUEL FACTOR CENTS / KWH

RESIDENTIAL & RESIDENTIAL BILL (\$)

<u>EFFECTIVE DATE</u>

COMMERCIAL @ 500 KWH @ 600 KWH

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

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 GREEN INFRASTRUCTURE FEE	1.8909 CENTS/KWH 1.1300 DOLLARS/MONTH
7/1/2016 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 5/1/2017-5/31/17	SOLARSAVER ADJUSTMENT PURCHASED POWER ADJUSTMENT CLAUSE	-0.2462 CENTS/KWH 1.9396 CENTS/KWH
5/1/2017	SOLARSAVER ADJUSTMENT CLAUSE 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
8/31/2017-4/3018	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 2/1/18-2/28/18	GREEN INFRASTRUCTURE FEE PURCHASED POWER ADJUSTMENT CLAUSE	1.3400 DOLLARS/MONTH 2.3101 CENTS/KWH
3/1/18 - 3/31/18	PURCHASED POWER ADJUSTMENT CLAUSE 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 10/1/2018	PURCHASED POWER ADJUSTMENT CLAUSE INTERIM RATE INCREASE 2016	1.8602 CENTS/KWH 0.0000 PERCENT ON BASE
10/1/2018	FINAL RATE INCREASE (TY 2016) 0.53% EFFECTIVE 10/0	
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

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

Calculations of the Average Residential Customer Bill

Base Rates

Base Fuel Energy Charge Non-Fuel Energy Charge First 300 kWh per month Next 700 kWh per month Customer Charge Total Base Charges

Interim Rate Increase 2016 TY RBA Rate Adjustment Purchased Power Adj. Clause PBF Surcharge DSM Adjustment SolarSaver Adjustment Energy Cost Recovery Green Infrastructure Fee

Avg Residential Bill at 500 kwh

Rate						
	03/01/19	04/01/19				
effective date:	2/1/2019	2/1/2019				
¢/kwh	-	-				
¢/kwh						
¢/kwh	13.0289	13.0289				
¢/kwh	16.3807	16.3807				
\$	11.50	11.50				
% on base	0.0000%	0.0000%				
¢/kwh	1.0006	1.0006				
¢/kwh	1.8372	1.8247				
¢/kwh	0.4658	0.4658				
¢/kwh	0.0000	0.0000				
¢/kwh	0.0000	(0.0768)				
¢/kwh	14.9760	16.4690				
\$	1.3500	1.3500				

Charge (\$) at 500 Kwh					
03/01/19	03/01/19 04/01/19				
\$0.00	\$0.00	\$0.00			
\$71.85	\$71.85	\$0.00			
\$39.09	\$39.09	\$0.00			
\$32.76	\$32.76	\$0.00			
\$11.50	\$11.50	\$0.00			
\$83.35	\$83.35	\$0.00			
\$0.00	\$0.00	\$0.00			
\$5.00	\$5.00	\$0.00			
\$9.19	\$9.12	-\$0.07			
\$2.33	\$2.33	\$0.00			
\$0.00	\$0.00	\$0.00			
\$0.00	-\$0.38	-\$0.38			
\$74.88	\$82.35	\$7.47			
\$1.35	\$1.35	\$0.00			
\$176.10	\$183.12				

Increase (Decrease -) % Change

\$7.02 3.99%

Base Rates

Base Fuel/Energy Charge Non-Fuel Energy Charge First 300 kWh per month Next 700 kWh per month Customer Charge Total Base Charges

Interim Rate Increase 2016 TY RBA Rate Adjustment Purchased Power Adj. Clause PBF Surcharge DSM Adjustment SolarSaver Adjustment Energy Cost Recovery Green Infrastructure Fee

Avg Residential Bill at 600 kwh

Rate						
	03/01/19	04/01/19				
effective date:	2/1/2019	2/1/2019				
¢/kwh	-	-				
¢/kwh						
¢/kwh	13.0289	13.0289				
¢/kwh	16.3807	16.3807				
\$	11.50	11.50				
0/	0.00000/	0.00000/				
% on base	0.0000%	0.0000%				
¢/kwh	1.0006	1.0006				
¢/kwh	1.8372	1.8247				
¢/kwh	0.4658	0.4658				
¢/kwh	0.0000	0.0000				
¢/kwh	0.0000	(0.0768)				
¢/kwh	14.9760	16.4690				
\$	1.3500	1.3500				

Charge (\$) at 600 Kwh						
03/01/19	04/01/19	Difference				
\$0.00	\$0.00	\$0.00				
\$88.23	\$88.23	\$0.00				
\$39.09	\$39.09	\$0.00				
\$49.14	\$49.14	\$0.00				
\$11.50	\$11.50	\$0.00				
\$99.73	\$99.73	\$0.00				
\$0.00	\$0.00	\$0.00				
\$6.00	\$6.00	\$0.00				
\$11.02	\$10.95	-\$0.07				
\$2.79	\$2.79	\$0.00				
\$0.00	\$0.00	\$0.00				
\$0.00	-\$0.46	-\$0.46				
\$89.86	\$98.81	\$8.95				
\$1.35	\$1.35	\$0.00				
\$210.75	\$219.17					

Increase (Decrease -) % Change

\$8.42 4.00%