

October 26, 2022

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

Dear Commissioners:

Subject: Hawai'i Electric Light Energy Cost Recovery Factor for November 2022

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light" or "Company") Energy Cost Recovery factor for November 2022 is 24.879 cents per kilowatt-hour ("kWh"), a decrease of 1.971 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$231.99, a decrease of (-\$10.18) compared to rates effective October 1, 2022. The decrease in the residential bill is due to the decrease in the Energy Cost Recovery Factor (-\$9.85), decrease in the Purchased Power Adjustment Clause rate (-\$0.30), and the decrease in the DSM Adjustment rate (-\$0.03).

Hawai'i Electric Light's fuel composite cost of generation decreased 182.79 cents per million BTU to 2,094.30 cents per million BTU. The composite cost of distributed generation decreased 0.136 cents per kWh to 26.949 cents per kWh. The composite cost of purchased energy decreased 0.372 cents per kWh to 18.061 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 November 1, 2022.

Very truly yours,

/s/ Dean K. Matsuura

Dean K. Matsuura
Director, Regulatory Rate Proceedings

Attachments

cc: Division of Consumer Advocacy

ENERGY COST RECOVERY FACTOR

EFFECTIVE DATES

	10/01/22	11/01/22	<u>Change</u>
Composite Cost			
Generation, ¢/mmbtu Dispersed Generation Energy, ¢/kWh Purchased Energy, ¢/kWh	2,277.09 27.085 18.433	2,094.30 26.949 18.061	(182.79) (0.136) (0.372)
Residential Schedule "R"			
Energy Cost Recovery - ¢/kWh	26.850	24.879	(1.971)
Others - "G,J,P,F"			
Energy Cost Recovery - ¢/kWh	26.850	24.879	(1.971)
Residential Customer with:			
500 KWH Consumption - \$/Bill 600 KWH Consumption - \$/Bill	242.17 290.06	\$231.99 \$277.85	(\$10.18) (\$12.21)

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

ENERGY COST RECOVERY (ECR) FILING - November 1, 2022 (Page 1 of 2)

Line
1 Effective Date November 1, 2022 October 1, 2022 2 Supercedes Factors of

GENERATION COMPONENT

(CENTRAL STAT	ION WITH WIND/	HYDRO COMPON	IENT			
-	FUEL PRICES,						
3		r					
4	Hill Industrial			1,507.63			
5	Puna Industria	ı		1,532.88			
-							
6	Keahole Diese			2,692.54			
	Keahole ULSE			2,675.24			
	Waimea ULSD	Diesel		2,674.33			
8	Hilo Diesel			2,655.99			
8a	Hilo (Kanoelehu	a) ULSD Diesel1		2,642.71			
9	Puna Diesel	,		2,658.53		DG ENERGY COMPONENT	
10	Wind			0.00	35	COMPOSITE COST OF DG	
					00		00
11	Hydro			0.00	00	ENERGY, ¢/kWh	26.
					36	% Input to System kWh Mix	0.
	BTU MIX, %						
12					37	WEIGHTED COMPOSITE DG ENERGY COST,	
13	Hill Industrial			40.159		¢/kWh (Lines 35 x 36)	0.00
14	Puna Industria	l		10.261			
15	Keahole Diese	l .		47.282	38	BASE DG ENERGY COMPOSITE COST	0.
15a	Keahole ULSE			0.138			
16				0.000	30	Base % Input to System kWh Mix	(
17		2.0001		0.020		WEIGHTED BASE DG ENERGY COST,	
		\ on n: 1			40	•	
	Hilo (Kanoelehu	a) ULSD Diesel		0.042		¢/kWh (Line 38 x 39)	0.00
18	Puna Diesel			1.999			
19	Wind			0.000	41	Cost Less Base (Line 37 - 40)	0.00
20	Hydro			0.099	42	Loss Factor	1.
	•			100.00000	43	Revenue Tax Req Multiplier	1.0
21	COMPOSITE C	OST OF GENERA	ATION.		44	DG FACTOR, ¢/kWh	
		ATION + WIND/H		2,094.30		(Line 41 x 42 x 43)	0.01
22	% Input to Syste		. 2.10 7	46.694		(Ellio TT X 12 X 10)	0.01
	70 Impat to Oyoto	THE REPORT OF THE PARTY OF THE		40.004			
	EEEICIENCV E	ACTOR, mmbtu/k	\//h				
				(D)			
	(A)	(B)	(C)	(D)			
			Percent of				
		Eff Factor	Centrl Stn +	Weighted			
	Fuel Type	mmbtu/kwh	Wind/Hydro	Eff Factor			
23	Industrial	0.014970	50.420	0.007548			
24	Diesel	0.010915	49.481	0.005401			
25	Other	0.012426	0.099	0.000012			
	ines 23, 24, 25): Col(B) x		100.0000				
		ency Factor, mmb					
20			LU/IXVVII	0.0100610			
	[Lines 23(D) +	24(D) + 25(D)]		0.0129610			
27		MPOSITE CENT					
		GENERATION (COST, ¢/kWh				
	(Lines (21 x 22	x 26))		12.67472			
	•	**					
28	BASE CENTRA	L STATION + WI	ND/HYDRO				
-		ON COST, ¢/mmb		0.00			
20	Base % Input to			0.00			
	Efficiency Facto		TATION :	0.000000			
37		SE CENTRAL ST					
		GENERATION (COST ¢/kWh				
	(Lines (28 x 2	9 x 30))		0.00000			
						SUMMARY OF	
	COST LESS BA	ASE (Line 27 - 31))	12.67472		TOTAL GENERATION FACTOR, ¢/kWh	
32				1.0975	45	Cntrl Stn+Wind/Hydro (line 34)	13.91
	Revenue Tax R						
33	Revenue Tax R		'DRO		46	DG (line 44)	0.01
33	CENTRAL STA	TION + WIND/HY	'DRO			DG (line 44)	0.01
33		TION + WIND/HY FACTOR,	'DRO	13.91051		DG (line 44) TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)	0.01

¹ Hilo ULSD same location as Kanoelehua ULSD

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

ENERGY COST RECOVERY (ECR) FILING - November 1, 2022 (Page 2 of 2)

Line	PURCHASED E	NERGY COMPONEN	<u>IT</u>	<u>Line</u>	Calculation of Monthly Fossil Fuel Cost Risk Sharing Compone	<u>nt</u>
	PURCHASED ENERGY PR	RICE, ¢/kWh Fossil			Baseline IFO	
48	HEP	•	23.179	94	IFO \$, baseline month	\$2,858,536
				95	IFO mmbtu, baseline	208,648
	PURCHASED ENERGY PR	RICE, ¢/kWh Renewable		96	Baseline IFO, ¢/mmbtu	1370.03
49	PGV	On Peak	21.000			
	PGV	Off Peak	20.738		Baseline Diesel	
	PGV - Add'l 5 MW	On Peak	13.650	97	Diesel \$, baseline month	\$6,258,505
	PGV - Add'l 5 MW	Off Peak	13.650	98	Diesel mmbtu, baseline	329,377
	PGV - Add'l 8 MW	On Peak	6.940	99	Baseline Diesel, c/mmbtu	1,900.10
	PGV - Add'l 8 MW	Off Peak	6.940			.,
	Wailuku Hydro	On Peak	21.000		Month IFO	
	Wailuku Hydro	Off Peak	20.738	100	IFO mmbtu, budget	248,668
	Hawi Renewable Dev.	On Peak	21.000	101	IFO Cost, ¢/mmbtu	1,512.77
	Hawi Renewable Dev.	Off Peak	20.738	102	IFO ECRC Fossil Cost	\$3,761,778
	Tawhiri (Pakini Nui)	On Peak	16.200	103	IFO Base ECRC Recovery Target	\$3,406,827
	Tawhiri (Pakini Nui)	Off Peak	15.720	104	IFO differential	\$354,952
	HEP Biodiesel	OII I GUIK	23.179	10-1	ii o amoroniai	Ψ001,002
	Small Hydro (>100 KW)	On Peak	21.000		Month Diesel	
	Small Hydro (>100 KW)	Off Peak	20.738	105	Diesel mmbtu, budget	244,039
	CBRE	Olifean	15.000	106	Diesel Cost, ¢/mmbtu	2,691.06
	Sch Q Hydro (<100 KW)		20.500	107	Diesel ECRC Fossil Cost	\$6,567,250
	FIT		23.800	108	Diesel Base ECRC Recovery Target	\$4,637,005
03	FII		23.600	109	Diesel differential	\$1,930,245
	DUDGUASED ENERGY KM	VIII MILY 0/		110	Total Fossil	\$2,285,197
66	PURCHASED ENERGY KV	VIT IVIIA, %,	10.005	110	2% of above	
00	HEP, Fossil		10.005	111	2 % Of above	\$45,704
	DUDGUASED ENERGY KW	VIIIMIV 0/ Denewable		112	Total Monthly Foodil Fuel Cost Biok Charing Brian Months in Voor	¢474 000
67	PURCHASED ENERGY KV	On Peak	20.412		Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year	\$471,028 \$600.000
	PGV PGV	Off Peak		113	Maximum Annual Cap (bi-directional)	,
		On Peak	12.786	114	Number of Days in year from implementation	365
	PGV - Addt'l		4.082	115	Fossil Risk % Proration (based on 365 day year)	100.00%
	PGV - Addt'l	Off Peak	2.906	116	Maximum Annual Cap (bi-directional) prorated	\$600,000
	PGV - Add'l 8 MW	On Peak	6.380	117	Applicable Monthly Fossil Fuel Cost Risk Sharing	\$45,704
	PGV - Add'l 8 MW	Off Peak	6.280	118	Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month	\$516,732
	Wailuku Hydro	On Peak	3.753	440	Familia Cart Birls Charing hafana tawar	¢45.704
	Wailuku Hydro	Off Peak	2.697	119	Fossil Cost Risk Sharing before taxes	\$45,704
	Hawi Renewable Dev.	On Peak	4.233	120	Revenue Tax Adjustment	1.097514
	Hawi Renewable Dev.	Off Peak	2.087	121	Fossil Cost Risk Sharing w/revenue tax	\$50,161
	Tawhiri (Pakini Nui)	On Peak	11.287	122	Forecasted Month MWh Sales	88,981
	Tawhiri (Pakini Nui)	Off Peak	7.385	123	Fossil Fuel Cost Risk Sharing Component, ¢/kWh	-0.0564
	HEP Biodiesel		4.862			
	Small Hydro (>100 KW)	On Peak	0.000	Derivation of No	on-Adjustable Component:	
	Small Hydro (>100 KW)	Off Peak	0.000			
	CBRE		0.177	004	0 0 1 5 0000	040.4
	Sch Q Hydro (<100 KW)		0.000	93A	Ocean Cargo Insurance Exp, \$000	\$13.1
83	FIT		0.668	000	HELCO-603, page 1, line 4	4 0075
			100.000	93B	Revenue Tax Adjustment	1.097514
				93C	Non-Adj Revenues, \$000	\$14.4
	Comp. Cost Purchased Ene	• • • • • • • • • • • • • • • • • • • •	23.1790	93D	2019 TY Sales, MWh	1,061,718
	Comp. Cost Purchased Ene		17.4917		HELCO-301	
84	COMPOSITE COST OF PU	RCHASED		93E	Non-Adj Revenues, ¢/kWh	0.00135
	ENERGY, ¢/kWh		18.061			
85	% Input to System kWh Mix		53.270			
86	WEIGHTED COMPOSITE F	PURCHASED ENERGY				
	COST, ¢/kWh (Lines (84 x	85))	9.62109			
1						
87	BASE PURCHASED ENER					
1	COMPOSITE COST, ¢/kW		0.000	<u>Line</u>	SYSTEM COMPOSITE	
	Base % Input to Sys kWh Mi		0.00			
89	WEIGHTED BASE PURCHA			124	GENERATION AND PURCHASED ENERGY	
	COST, ¢/kWh (Lines (87 x	88))	0.00000		FACTOR, ¢/kWh (Lines (47 + 93))	25.13563
					Fossil Fuel Cost Risk Sharing Component (Line 123)	(0.056)
	COST LESS BASE (Lines (8	36 - 89))	9.62109		Non-Adjustable Component (Line 93E)	0.00135
	Loss Factor		1.062		ECA Reconciliation Adjustment	(0.202)
	Revenue Tax I*		1.0975	128	ECA FACTOR, ¢/kWh	24.879
93	PURCHASED ENERGY FA	CTOR, ¢/kWh	11.21381		(Lines (124 + 125 + 126 + 127))	
	(Lines (90 x 91 x 92))			Ī		

Hawaii Electric Light Company, Inc. FUEL OIL INVENTORY PRICES FOR November 1, 2022

INDUSTRIAL FUEL COSTS: Average Industrial Fuel Cost - \$/BBL Land Transportation Cost - \$/BBL	<u>HILO</u> 94.9809 	<u>PUNA</u> 94.9809 1.5905		
Industrial Costs For Filing - \$/BBL Conversion Factors - mmbtu/BBL	94.9809 6.30	96.5715 6.30		
Industrial Costs For Filing - ¢/mmbtu	1,507.63	1,532.88		
DIESEL FUEL COSTS: Average Diesel Fuel Cost - \$/BBL Land Transportation Cost - \$/BBL	KEAHOLE 154.3716 3.4110	PUNA CT-3 154.3716 1.4183	HILO 154.3716 1.2692	
Diesel Costs For Filing - \$/BBL Conversion Factors - mmbtu/BBL	157.7826 5.86	155.7899 5.86	155.6408 5.86	
Diesel Costs For Filing - ¢/mmbtu	2,692.54	2,658.53	2,655.99	
				DISPERSED
ULSD FUEL COSTS:	KEAHOLE	WAIMEA	HILO	GENERATION
Average ULSD Fuel Cost - \$/BBL	150.1516	150.1516	150.1516	150.1516
Land Transportation Cost - \$/BBL	3.1398	3.0874	1.2757	
ULSD Costs For Filing - \$/BBL Conversion Factors - mmbtu/BBL	153.2914 5.73	153.2390 5.73	151.4273 5.73	150.1516 5.73
ULSD Costs For Filing - ¢/mmbtu	2,675.24	2,674.33	2,642.71	2,620.45

COMPOSITE COST

Dispersed Generation, cents per kWh

	OF DISP. GEN.
BBIs Fuel:	60.5742
\$/BBI Inv Cost:	150.1516
Fuel \$ (Prod Sim Consumption x Unit Cost)	9,095.31
Net kWh (from Prod Sim)	33,750
cents/kWh:	26.949

Estimated Weighted Average November 2022

SHIPMAN INDUSTRIAL HILL INDUSTRIAL

·	SHIPIVIAN INDUSTRIAL		HILL INDUS	711(1)(E				
					COST PER BARREL			
	BBL	COST	BBL	COST	EXCL LT	LT Total		
Balance at 09/30/2022	0	0.00	38,803	4,078,277.97				
Less: Est'd Inventory Addn			0	0.00				
Purchases: Estimate	xxxxxx xxx	(XXXXXXXXXXXXXX	xxxxxxxxx	xxxxxxxxxxxx				
Actual	XXXXXX XXX	(XXXXXXXXXXXXXX	xxxxxxxxx	xxxxxxxxxxxx				
Transfers out: Estimate	xxxxxx xxx	(XXXXXXXXXXXXXXX	xxxxxxxxx	xxxxxxxxxxxx				
Actual	XXXXXX XXX	(XXXXXXXXXXXXXX	XXXXXXXXX	XXXXXXXXXXXXXX				
Transfers in: Estimate	0	0.00	(23,067)	(2,366,538.31)				
Actual	0	0.00	21,117	2,212,541.63				
Consumed: Estimate	0	0.00	22,430	2,349,152.22				
Actual	0	0.00	(22,129)	(2,372,471.32)				
Balance Per G/L 09/30/2022	0	0.00	37,154	3,900,962.19				
Purchases	xxxxxx xxx	xxxxxxxxxxx	xxxxxxxxx	xxxxxxxxx xxxxxxxxxxxxxx				
Transfer out	xxxxxx xxx	xxxxxxxxxxx	xxxxxxxxx	xxxxxxxxx xxxxxxxxxxxxxx				
Transfer in	0	0.00	32,312	3,024,353.33				
Consumed	0	0.00	(39,667)	(4,133,749.64)	106.5901	0.0000	106.5901	
Balance @ 10/31/2022	0	0.00	29,799	2,791,565.88				
Inv From Offsite/Transfers	0	0.00	0	0.00				
Est'd Inventory Addition	0	0.00	0	0.00				
Fuel Balance @ 10/31/2022	0	0.00	29,799	2,791,565.88				
Reverse Fuel Balance	xxxxxx	0.00	xxxxxxxxx	(2,791,565.88)				
Fuel Bal @ Avg Price	xxxxx	0.00	xxxxxxxxx	2,830,337.12				
Total @ 11/01/2022 Avg Price	0	0.00	29,799	2,830,337.12				

Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 93.6799

Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 94.9809

Estimated Weighted Average November 2022

PUNA INDUSTRIAL

			LAND	COST PER BA	RREL	
	BBL	COST	TRANSP	EXCLUDE LT	LT	TOTAL
Balance at 09/30/2022	9,553	1,016,446.58	15,197.79			
Less: Est'd Inventory Addition	0	0.00	0.00			
Purchases: Estimate	xxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxxxxxxx			
Actual	XXXXXXXXXXX	xxxxxxxxxxxx	XXXXXXXXXXXXXXXXXXXXXXX			
Transfers out: Estimate	xxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxxxxxxxx			
Actual	xxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxxxxxxxx			
Transfers in: Estimate	0	0.00	0.00			
Actual	0	0.00	0.00			
Consumed: Estimate	0	0.00	0.00			
Actual	0	(13,435.01)				
	1	•	-			
Balance Per G/L 09/30/2022	9,553	1,003,011.57	15,197.79	-		
Purchases	xxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxxxxxxx			
Transfer out	xxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfer in	13	0	17.10			
Consumed	0	0.00	0.00	104.2113	1.5909	105.8022
Balance @ 10/31/2022	9,566	1,003,011.57	15,214.89			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	9,566	1,003,011.57	15,214.89		1.5905	
Tuer bar @ Avg Frice	9,300	1,003,011.37	13,214.83		1.3903	
Reverse Fuel Balance	xxxxxxxxxx	(1,003,011.57)	xxxxxxxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxx		xxxxxxxxxxxxxxxxxx			
Total @ 11/01/2022 Avg Price	9,566	908,587.70	15,214.89	-		
11/01/2022 Avg File	9,300	300,367.70	13,214.03			
Weighted Avg Cost/BBL by Location		104.8517	1.5905			
Weighted Avg Cost/BBL @ Avg Cost		94.9809	1.5905			

Estimated Weighted Average November 2022

KEAHOLE DIESEL

Weighted Avg Cost/BBL @ Avg Cost

		KEAHOLE DIESEL	COST	1.44.5	COST DED T	A D D E !	
L	_		COST	LAND	COST PER B		
HS Diesel	BBL	GALLONS	EXCLUDE LT	TRANSP	EXCLUD LT	LT	TOTAL
Balance at 09/30/2022	60,279.6	2,531,742.0	9,951,734.6	186,513.1			
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		xxxxxxxxxxxx	xxxxxxxxxxxxx	xxxxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx			
Transfers in: Estimate	(47,140.9)			, , ,			
Actual	42,412.2	1,781,313.0	6,666,197.4	152,258.61			
Consumed: Estimate	38,642.5	1,622,985.0	6,217,064.3	142,092.34			
Actual	(36,661.7)			·	166.5142		
Balance Per G/L 09/30/2022	57,531.7	2,416,333	9,347,154.09	177,690.96	162.4695		
Purchases	xxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxxx	xxxxxxxxxxxxxx			
Transfer out	xxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxxx	xxxxxxxxxxxxxx			
Transfer in	32,448.2	1,362,825.0	5,195,235.3	118,280.2	160.1085		
Consumed	(34,552.1)	(1,451,187.0)	(5,556,349.7)	(106,907.56)	160.8109	3.0941	163.9050
Balance @ 10/31/2022	55,427.9	2,327,971	8,986,039.66	189,063.63	162.1213		
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	55,427.9	2,327,971	8,986,039.66	189,063.63	162.1213		
Reverse Fuel Balance	xxxxxxxxxx	xxxxxxxxxxxx	(8,986,039.7)	xxxxxxxxxxxxxx			
Fuel Balance @ Avg Price		xxxxxxxxxxxx		xxxxxxxxxxxxxx			
Total @ 11/01/2022 Avg Price	55,427.9	2,327,971	8,556,489.83	189,063.63	154.3716		
Weighted Avg Cost/BBL by Location			162.1213	3.4110			

154.3716

3.4110

Estimated Weighted Average November 2022

PUNA CT-3

			COST	LAND	COST PER I	BARREL	
HS Diesel	BBL	GALLONS	EXCLUD LT	TRANSP	EXCL LT	LT	TOTAL
Balance at 09/30/2022	4,361.9	183,198.0	631,293.7	(23,112.1)			
Less: Est'd Inven Addition	0.0	0.0	0.0	0.0			
Purchases: Estimate	1	xxxxxxxxxxxxxx	xxxxxxxxxxx	xxxxxxxxxx			
Actual	1	xxxxxxxxxxxxxx	xxxxxxxxxxx	XXXXXXXXXXX			
Transfers out: Estimate			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Actual		xxxxxxxxxxxxxx					
Actual		xxxxxxxxxxxxxx	xxxxxxxxxxx	XXXXXXXXXXX			
Transfers in: Estimate	(17,722.4)	(744.342.0)	(2,757,720.8)	(25,135.7)			
Actual	17,172.0		2,666,777.8	24,009.4			
/ tetadi	17,172.0	721,222.0	2,000,777.0	24,003.4			
Consumed: Estimate	15,992.2	671.674.0	2,572,938.4	22,681.8			
Actual	(15,828.3)		(2,467,426.3)				
	(- / /	(, ,	(, - , ,	,			
Balance Per G/L 09/30/2022	3,975.3	166,962	645,862.78	5,638.15			
Purchases	xxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxx	xxxxxxxxxx			
Transfer out	xxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxx	xxxxxxxxxx			
T	7.622.0	220 570 0	4 240 254 2	40.035.6	450 6067		
Transfer in	7,632.8	320,579.0	1,218,251.2	10,825.6	159.6067		
Consumed	(7,998.4)	(22E 021)	(1,286,223.0)	(11 244 07)	160.8109	1 /1100	########
Consumed	(7,996.4)	(555,951)	(1,200,223.0)	(11,544.07)	100.8109	1.4103	########
Balance @ 10/31/2022	3,609.8	151,610	577,890.98	5,119.73	160.0912		
Inven From Offsite/Transfers	0.0	0	0.00	0.00	200.0012		
Est'd Inventory Addition	0.0	0	0.00	0.00			
			0.00	0.00			
Fuel Balance @ 10/31/2022	3,609.8	151,610	577,890.98	5,119.73	160.0912		
. ,		<u> </u>	•				
Reverse Fuel Balance	xxxxxxxxxxx	xxxxxxxxxxxxxx	(577,890.98)	xxxxxxxxxxx			
Fuel Balance @ Avg Price		xxxxxxxxxxxxxx					
,	-		•				
Total @ 11/01/2022 Avg Price	3,609.8	151,610	557,244.67	5,119.73	154.3716		
Weighted Avg Cost/BBL by Location			160.0912	1.4183			
Weighted Avg Cost/BBL @ Avg Cost			154.3716	1.4183			

Estimated Weighted Average November 2022

TOTAL HILO HS-DIESEL

			COST	LAND	COST PER	BARREL	
HS Diesel	BBL	GALLONS	EXCLUDE LT	TRANSP	EXCL LT	LT	TOTAL
Balance at 09/30/2022	997.0	41,875	164,527	1,254			
Less: Est'd Inven Addition	0.0	0	0	0			
Purchases: Estimate		xxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxx			
Actual		XXXXXXXXXX	XXXXXXXXXXX	xxxxxxxxxx			
Tue mediane and Estimate							
Transfers out: Estimate			xxxxxxxxxx				
Actual		XXXXXXXXXXX	XXXXXXXXXXX	xxxxxxxxxx			
Transfers in: Estimate	-1884.2	-79135.0	-296430.5	-2359.0			
Actual	1506.1	63255.0					
Actual	1300.1	03233.0	23/103.4	1004.4			
Consumed: Estimate	2119.9	89037.0	341068.3	2702.9			
Actual	-1548.6	-65040.0					
, totadi	23 .0.0	030 10.0	2323311	1330.2			
Balance Per G/L 09/30/2022	1190.3	49,992	193,385.15	1,532.12	162.4695		
		-,	,	,			
Purchases	xxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxx			
Transfer out	xxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxx			
Transfer in	1887.7	79285.0	305058.0	2363.4	0.0000		
Consumed	-964.2	-40498.0	-155060.0	-1212.8	160.8109	1.2578	162.0687
Balance @ 10/31/2022	2,113.8		343,383.13	2,682.75	162.4494		
Inven From Offsite/Transfers	0.0	0.0					
Est'd Inventory Addition	0.0	0.0	0.0	0.0			
5 ID I OA D:	2 112 0	00 770	242 202 42	2 602 75	462.4404		
Fuel Balance @ Avg Price	2,113.8	88,779	343,383.13	2,682.75	162.4494		
Devenue Final Balanti			242 202 42				
Reverse Fuel Balance	XXXXXXXXXXX						
Fuel Balance @ Avg Price	XXXXXXXXXXX	XXXXXXXXXXXX	326,308.45	xxxxxxxxxxx			
Total @ 11/01/2022 Avg Price	2,113.8	88,779	326,308.45	2,682.75	154.3716		
Inotal @ 11/01/2022 Avg Plice	2,113.8	00,779	320,300.43	2,002.73	134.3/10		
Weighted Avg Cost/BBL by Location			162 4404	1 2602			
weignted Avg Cost/BBL by Location			162.4494	1.2692			
Weighted Avg Cost/BBL @ Avg Cost			154.3716	1.2692			
WEIGHTEN AVE COST DDL W AVE COST			124.2/10	1.2032			

Estimated Weighted Average November 2022

KEAHOLE ULSD

			COST	LAND	COST PER BARREL		
ULSD	BBL	GALLONS	EXCLUDE LT	TRANSP	EXCLUD LT	LT	TOTAL
Balance at 09/30/2022	2,198.3	92,330	323,597.78	6,680.65			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(376.1)	(15,796)	(59,820.12)	(1,370.94)			
Actual	376.1	15,796	59,820.12	0.00			
Transfers out: Estimate		xxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxx			
Actual		xxxxxxxxxx	XXXXXXXXXXXXXX	XXXXXXXXXXX			
Transfers in: Estimate		483	0.00	41.92			
Actual		(483)	0.00	1,370.94			
Consumed: Estimate	299.3	12,570	39,610.70	1,106.10			
Actual	(209.5)	(8,799)	(19,675.85)	(761.65)	93.9181		
Balance Per G/L 09/30/2022	2,288.1	96,101	343,532.63	7,067.02	150.1376		
Purchases	188.5	7,917	27,895.41	687.12	0.0000		
Estimated Purchases	0.0	0	0.00	0.00			
Transfer in	(8.8)	(369)	0.00	(32.03)	0.00		
Consumed	(261.2)	(10,971)	(39,420.29)	(793.83)	150.9117	3.0390	153.9507
Balance @ 10/31/2022	2,206.6	92,678	332,007.75	6,928.28	150.4599		
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	2,206.6	92,678	332,007.75	6,928.28	150.4599		
Reverse Fuel Balance	xxxxxxxxxxx	xxxxxxxxxx	(332,007.75)	xxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxx			xxxxxxxxxx			
Total @ 11/01/2022 Avg Price	2,206.6	92,678	331,327.46	6,928.28	150.1516		
Weighted Avg Cost/BBL by Location			150.4599	3.1398			
Weighted Avg Cost/BBI @ Avg Cost			150.1516	3.1398			

Weighted Avg Cost/BBL @ Avg Cost 150.1516 3.1398

Estimated Weighted Average November 2022

WAIMEA DIESEL

			COST	LAND	COST PER BARREL		
ULSD	BBL	GALLONS	EXCLUDE LT	TRANSP		LT	TOTAL
Release at 00/20/2022	904.0	22 806 0	129 760 0	2 420 20			
Balance at 09/30/2022	804.9	33,806.0	128,769.0	2,429.28			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Durah sasar Estimata		(22.702)	(00.000.55)	(4 740 74)			
Purchases: Estimate Actual		(23,782)		(1,718.71) 0.00			
Actual		15,802.0	59,854.2	0.00			
Transfers out: Estimate		xxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxx			
Actual		xxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxx			
Transfers in: Estimate	0.3	14	0.00	0.00			
Actual	(0.3)	(14)		1,142.00			
Actual	(0.3)	(14)	0.00	1,142.00			
Consumed: Estimate	475.0	19,950	62,866.63	1,447.47			
Actual	(333.8)	(14,019)	(47,887.37)	(964.48)			
Balance Per G/L 09/30/2022	756.1	31,757	113,521.87	2,335.56	150.1376		
ULSD Purchases	378.5	15,898	56,016.32	1,148.93	147.9863		
o Lob T di citases	370.3	13,030	30,010.32	1,140.55	147.5005		
Estimated Purchases	=	0	0.00	0.00			
		(0.4)			## ## ## ## ## ## ## ## ## ## ## ## ##		
Transfer in	XXXXXXXXXXX	(34)	0.00	0.00	#DIV/0!		
Consumed	(232.3)	(9,758)	(35,061.82)	(701.21)	150.9117	3.0181	153.9298
		(-,,	(/ /	,			
Balance @ 10/31/2022	901.5	37,863	134,476.37	2,783.29	149.1696		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
5 151 64 5:	204.5	27.002	424 476 27	2 702 20	140 4606		
Fuel Balance @ Avg Price	901.5	37,863	134,476.37	2,783.29	149.1696		
Reverse Fuel Balance	XXXXXXXXXXX	xxxxxxxxxxx	(134.476.37)	xxxxxxxxxx			
Fuel Balance @ Avg Price		XXXXXXXXXXXX		XXXXXXXXXXXX			
ruer Balance & Avg Frice	AAAAAAAAA	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	133,301.70	XXXXXXXXXX			
Total @ 11/01/2022 Avg Price	901.5	37,863	135,361.70	2,783.29	150.1516		
.							
Weighted Avg Cost/BBL by Location			149.1696	3.0874			
Weighted Aug Cost/DDL CO Aug Co.			450 4540	2.0074			
Weighted Avg Cost/BBL @ Avg Cost			150.1516	3.0874			

Estimated Weighted Average November 2022

KANOELEHUA DIESEL

			COST	LAND
ULSD	BBL	GALLONS	EXCLUDE LT	TRANSP
Balance at 09/30/2022	1,059.8	44,512.0	160,398.6	1369.2
Less: Est'd Inventory Addition	0.0	0	0.00	0.00
Purchases: Estimate Actual	(376.4) 376.4	(15,808) 15,808	, ,	(471.23) 0.00
Transfers out: Estimate Actual		x x	x x	x x
Transfers in: Estimate Actual		(153) 153	0.00 0.00	(4.56) 471.23
Consumed: Estimate Actual	390.1 (284.0)	16,386 (11,927)		493.45 (357.25)
	1,166.0	48,971	175,056.83	1,500.83
ULSD Purchases	377	15,827	55,766.17	471.80
Estimated Purchases	0	-	-	-
Transfer in	0	9	0.00	0.27
Consumed	(275.1)	(11,556)	(41,522.28)	(355.46)
Balance @ 10/31/2022 Inventory From Offsite/Transfers	1,267.9 0.0	53,251 0	189,300.72 0.00	1,617.44 0.00
Est'd Inventory Addition	0.0	0	0.00	0.00
Fuel Balance @ Avg Price =	1,267.9	53,251	189,300.72	1,617.44
Reverse Fuel Balance Fuel Balance @ Avg Price	x x	x x	(189,300.72) 190,374.40	x x
Total @ 11/01/2022 Avg Price	1,267.9	53,251	190,374.40	1,617.44
Weighted Avg Cost/BBL by Location			149.3048	1.2757
Weighted Avg Cost/BBL @ Avg Cost			150.1516	1.2757

Estimated Weighted Average November 2022

DISPERSED GENERATION

	0. 2. (023 0	IENERATION		
	BBL	GALLONS	COST	COST/BBL
Balance at 09/30/2022	139.1	5,842	21,387.37	
Less: Est'd Inven Addition	0.0	xxxxxxxx	xxxxxxxx	
Purchases: Estimate Actual	, ,	(3,073) 2,823	•	
Consumed: Estimate Actual		1,583 (1,108)	•	
		xxxxxxxxxx xxxxxxxxxx		
		xxxxxxxxxx xxxxxxxxxx		
Balance Per G/L 09/30/2022	144.45	6,067	21,687.73	150.1376
Purchases	0.0	0	0.00	0.0000
Transfer out	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx	
Transfer in	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx	
Consumed	(8.2)	(346)	(1,243.22)	150.9117
Balance @ 10/31/2022	127.6	5,361	20,444.51	160.1696
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 10/31/2022	127.6	5,361	20,444.51	
Reverse Fuel Balance Fuel Balance @ Avg Price		xxxxxxxxxxx	(20,444.51) xxx 19,165.78 xxx	
Total @ 11/01/2022 Avg Price	127.6	5,361	19,165.78	150.1516

Hawaii Electric Light Company, Inc. PURCHASED POWER PRICES FOR November 1, 2022

		November 1, 2022 (¢/kWh)	Floor Rates (¢/kWh)
PGV (25 MW) PGV (22 MW)	- on peak - off peak	21.000 20.738	6.560 5.430
WAILUKU HYDRO	- on peak off peak	21.000 20.738	7.240 5.970
Other: (<100 KW)	Sch Q Rate	20.500	
		November 1, 2022 (¢/kWh)	Floor Rates (¢/kWh)
HEP		23.179	
PGV Addtl 5 MW	- on peak - off peak	13.650 13.650	0.0000 0.0000

Hawaii Electric Light Company, Inc. Energy Cost Reconciliation Adjustment

November 1, 2022

Line No.	<u>Description</u>	<u>Amount</u>
1	Amount to be (returned) or collected	(\$492,400)
2	Monthly Amount (¹ / ₃ x Line 1)	(\$164,133)
3	Revenue Tax Divisor	0.91115
4	Total (Line 2 / Line 3)	(\$180,139)
5	Estimated MWh Sales (November 1, 2022)	88,981 mwh
6	Adjustment (Line 4 / Line 5)	(0.202) ¢/kwh

HAWAII ELECTRIC LIGHT COMPANY, INC. 2022 FUEL OIL ADJUSTMENT RECONCILIATION SUMMARY (Thousand \$)

<u>LINE</u>	DESCRIPTION	Info Only September 2022 YTD Total No Deadband	collectn by company*	Basis for Recon September 2022 YTD Total <u>Deadband</u>	
	ACTUAL COSTS:				
1	Generation	\$98,831.5		\$98,831.5	
2	Distributed Generation	\$24.5		\$24.5	
3	Purch Power	\$91,712.9	· ·	\$91,712.9	
4	TOTAL	\$190,568.9		\$190,568.9	
	FUEL FILING COST				
5	Generation	\$97,360.4		\$98,478.2	
6	Distributed Generation	\$24.5		\$24.5	
7	Purch Power	\$91,712.9		\$91,712.9	
8	TOTAL	\$189,097.8		\$190,215.6	
	BASE FUEL COST				
9	Generation	\$0.0		\$0.0	
10	Distributed Generation	\$0.0		\$0.0	
11	Purch Power	\$0.0		\$0.0	
12	TOTAL	\$0.0		\$0.0	
13	FUEL-BASE COST (Line 8-12)	\$189,097.8		\$190,215.6	
14	ACTUAL FOA LESS TAX	\$191,031.8		\$191,031.8	
15	Less: FOA reconciliation adj for prior year	\$1,114.8		\$1,114.8	
15A	Less: Non-Adjustable Component Revenues Less Tax	\$9.7		\$9.7	
16	ADJUSTED FOA LESS TAX	\$189,907.3		\$189,907.3	
17	FOA-(FUEL-BASE) (Line 16-13)	\$809.5	over	-\$308.3	under
	ADJUSTMENTS:				
18	Current year FOA accrual reversal	-\$3,076.9		-\$3,076.9	
19	Other prior year FOA	\$0.0		\$0.0	
20	Other	\$0.0	<u>.</u>	\$0.0	
21	QUARTERLY FOA RECONCILIATION (Line 17+18+19+20)	-\$2,267.4	under	-\$3,385.2	under
21A	YTD Fossil Fuel Cost Risk Sharing Adjustment	\$444.4		\$444.4	
21B	QUARTERLY FOA RECON w/Fossil Risk Adj (L21+L21A)	-\$1,823.0	:	-\$2,940.7	under
22	Second Quarter Reconciliation			-3,433.1	
23	FOA Reconciliation to be returned or Collected			492.4	over

^{*} Over means an over-collection by the Company. Under means an under-collection by the Company.

Hawai`i Electric Light Company DEADBAND CALCULATION

For Period: January 1, 2022 to September 30, 2022

	Notes	YTD
Industrial		
Industrial Efficiency Factor (per D&O), BTU/kWh* Industrial Deadband Definition, +/- BTU/kWh	u d	14,970 100
		100 424 702
Industrial Portion of Recorded Sales, kWh Industrial Consumption (Recorded), MMBTU	a b	109,431,783 1,578,061
Industrial Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	14,421
madstral Efficiency Factor (Neodraed), BTO/KWII	0-(b/a) x 1000	17,721
Lower limit of Industrial Deadband, BTU/kWh	e= f-d	14,870
Higher limit of Industrial Deadband, BTU/kWh	g=f+d	15,070
Industrial Efficiency Factor for cost-recovery, BTU/kWh	h=c, e, or g	14,870
<u>Diesel</u>		
Diesel Efficiency Factor (per D&O), BTU/kWh*	f	10,915
Diesel Deadband Definition, +/- BTU/kWh	d	200
,		
Diesel Portion of Recorded Sales, MWh	а	263,791,464
Diesel Consumption (Recorded), MMBTU	b	2,942,514
Diesel Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	11,155
Lower limit of Diesel Deadband, BTU/kWh	e= f-d	10,715
Higher limit of Diesel Deadband, BTU/kWh	g=f+d	11,115
Diesel Efficiency Factor for cost-recovery, BTU/kWh	h=c, e, or g	11,115
<u>Hydro</u>		
Hydro Efficiency Factor (per D&O), BTU/kWh*	f	12,426
Hydro Deadband Definition, +/- BTU/kWh	d	100
Hydro Portion of Recorded Sales, MWh	а	4,532,009
Hydro Consumption (Recorded), MMBTU	b	54,096
Hydro Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	11,936
Lower limit of Hydro Deadband, BTU/kWh	e= f-d	12,326
Higher limit of Hydro Deadband, BTU/kWh	g=f+d	12,526
-		•
Hydro Efficiency Factor for cost-recovery, BTU/kWh	h=c, e, or g	12,326

^{*} YTD Efficiency Factor (per D&O) is actual YTD & projected to the end of the year weighted by calendar days in the year.

HAWAII ELECTRIC LIGHT COMPANY, INC. GENERATION FUEL FILING COST AND GENERATION BASE FUEL COST WITHOUT and WITH DEADBAND

January 1 - September 30, 2022

		With Deadband
	Without Deadband	As Filed
	<u>Jan 1 - Sep 30</u>	<u>Jan 1 - Sep 30</u>
INDUSTRIAL FUEL FILING COST		
Industrial Portion of Recorded Sales , kWh	109,431,783	109,431,783
Industrial Efficiency Factor (mmbtu/kwh)	0.014970	0.014870
Mmbtu adjusted for Sales Efficiency Factor	1,638,194	1,627,251
\$/mmbtu	<u>\$16.2649</u>	<u>\$16.2649</u>
TOTAL INDUSTRIAL \$000s TO BE RECOVERED	\$26,645.007	\$26,467.018
DIESEL FUEL FILING COST		
Diesel Portion of Recorded Sales, kWh	263,791,464	263,791,464
Diesel Efficiency Factor (mmbtu/kwh)	0.014870	0.011115
Mmbtu adjusted for Sales Efficiency Factor	3,922,579	2,932,042
\$/mmbtu	\$18.0278	<u>\$24.5601</u>
TOTAL DIESEL \$000s TO BE RECOVERED	\$70,715.421	\$72,011.168
HYDRO FUEL FILING COST		
Hydro Portion of Recorded Sales , kWh	4,532,009	4,532,009
Hydro Efficiency Factor (mmbtu/kwh)	0.012426	0.012326
Mmbtu adjusted for Sales Efficiency Factor	56,315	55,862
\$/mmbtu	<u>\$0.0000</u>	<u>\$0.0000</u>
TOTAL HYDRO \$000s TO BE RECOVERED	\$0.000	\$0.000
TOTAL GENERATION FUEL FILING COST, \$000s	\$97,360.4	\$98,478.2
CALCULATION OF GENERATION BASE FUEL COST		
TOTAL GENERATION BASE FUEL COST, \$000s	\$0.0	\$0.0
TOTAL GENERATION FUEL FILING COST, \$000s YTD	\$97,360.4	\$98,478.2
TOTAL GENERATION BASE FUEL COST YTD	\$0.0	\$0.0

	Fossil Fuel Cost Risk Sharing Mechanism and	Non-Adjustable Com	ponent,
	LSFO/IFO Fossil Fuel Cost Risk Sharing	Baseline	YTD Subject to Fossil Risk
Α	MMBtu	208,648	1,578,061
В	\$ cost, actuals	\$2,858,536	25,661,824
C = B / A (Baseline Column)	Baseline \$/mmbtu	13.700275	13.700275
D	IFO Gen kWh		116,789,114
E	Total kWh, Gen, Purch Pwr, DG		837,002,184
F	Sales kWh		784,565,089
G = (D / E) x F	IFO kWh-sales		109,472,428
Н	Target Heat Rate		14,970
I1	Calculated Heat Rate (YTD subject to fossil risk	, before deadband)	14,421
1	Recovery Heat Rate (YTD subject to fossil risk,	after deadband)	14,870
J = B / A ytd	Actual Cost \$/MMbtu		16.2616163
K = C x H x G / 1,000,000	Base Cost Recovery w/Target Heat Rate		\$22,452,042
L = I x J x G / 1,000,000	Fuel Filing Cost Recovery		\$26,471,554
M = 0.02 x (L-K)	IFO Cost Risk Sharing		\$80,390
	Diesel with target heat rate Fossil Fuel Cos	t Risk Sharing	
AA	MMBtu	329,377	2,942,514
ВВ	\$ cost, actuals	6,258,505	73,169,673
CC = BB / AA (Baseline Column)	Baseline \$/mmbtu	19.0010470	19.0010470
DD	Diesel Gen kWh		281,447,824
EE	Total kWh, Gen, Purch Pwr, DG		837,002,184
FF	Sales kWh		784,565,089
$GG = (DD / EE) \times FF$	Diesel kWh-sales		263,815,485
нн	Target Heat Rate		10,915
II1	Calculated Heat Rate (YTD subject to fossil risk	, before deadband)	11,155
II	Recovery Heat Rate (YTD subject to fossil risk,	after deadband)	11,115
JJ = BB/AA (YTD Column)	Actual Cost \$/MMbtu		24.8663824
KK = CC x HH x GG / 1,000,000	Base Cost Recovery w/Target Heat Rate		\$54,714,389
LL = II x JJ x GG / 1,000,000	Fuel Filing Cost Recovery		\$72,915,920
$MM = 0.02 \times (LL-KK)$	Diesel Cost Risk Sharing (with target heat rate	e)	\$364,031
FFF	Annual Cap (non-prorated)		600,000
GGG	# Days		365
ННН	Annual Cap (pro-rated, if applicable)		\$600,000
III = M + MM + E, up to cap	Total Fossil Fuel Cost Risk Sharing Adjustmen	t, subject to cap	\$444,421
	Non-Adjustable Component		
AAAA = F	YTD kWh under ECRC		784,565,089
BBBB	Non-Adjustable Component, cents/kWh		0.00135
CCCC	Non-Adjustable Component Revenues w/tax		\$10,592
DDDD	Non-Adjustable Component Revenues less tax		\$9,651

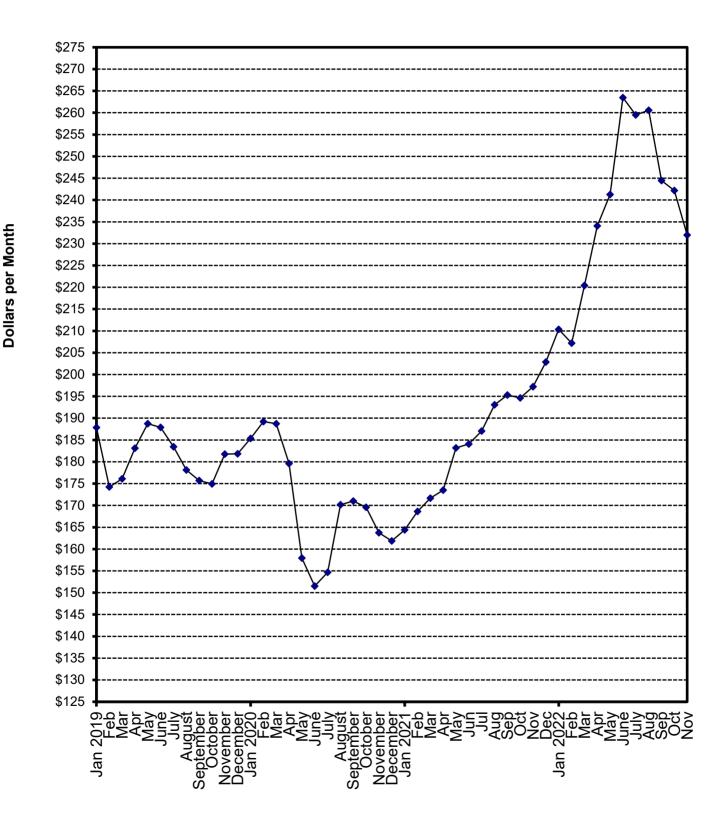
2022 Cumulative Reconciliation Balance

	(1)		(2) FOA Rec	(3) FOA Rec	(4)	(5)	(6) Month-end
	YTD FOA		Adjust	Less	Try to	Actual	Cumulative
<u>Month</u>	Reconciliation	<u>Qtr</u>	<u>Variance</u>	<u>Variance</u>	<u>Collect</u>	<u>Collect</u>	<u>Balance</u>
January 21					(261,333)	(275,071)	12,258
February 21	374,300	[4]	(9,409)	383,709	(124,767)	(125,584)	270,383
March					(124,767)	(134,386)	135,997
April					(124,767)	(131,121)	4,876
May	(707,400)	(1)	(24,174)	(683,226)	235,800	261,182	(417,168)
June					235,800	262,654	(154,514)
July					235,800	253,310	98,796
August	(80,900)	[2]	45,882	(126,782)	26,967	29,218	1,232
September					26,967	28,336	29,568
October					26,967	27,747	57,315
November	(794,600)	[3]	21,130	(815,730)	264,867	280,992	(477,423)
December					264,867	292,531	(184,892)
January 22					264,867	270,827	85,935
February 22	(849,900)	[4]	44,569	(894,469)	283,300	291,654	(516,880)
March					283,300	304,924	(211,956)
April					283,300	310,129	98,173
May	(2,364,200)	[1]	35,938	(2,400,138)	788,067	865,010	(1,436,955)
June					788,067	818,932	(618,023)
July					788,067	790,896	172,873
August	(1,068,900)	[2]	134,637	(1,203,537)	356,300	361,221	(669,443)
September					356,300	365,659	(303,784)
October					356,300		
November	492,400	[3]	17,109	475,291	(164,133)		

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

FUEL FACTOR CENTS / KWH

	CENTS / KWH RESIDENTIAL &	RESIDENT	IAL BILL (\$)
EFFECTIVE DATE	COMMERCIAL		@ 600 KWH
January 1, 2019 February 1, 2019 March 1, 2019 April 1, 2019 May 1, 2019 June 1, 2019 July 1, 2019 August 1, 2019 September 1, 2019 October 1, 2019 November 1, 2019 December 1, 2019	6.867	187.86	224.86
	14.631	174.25	208.53
	14.976	176.1	210.75
	16.469	183.12	219.17
	17.396	188.74	225.93
	17.318	187.89	224.90
	16.450	183.46	219.63
	15.331	178.14	213.25
	14.845	175.70	210.32
	14.692	174.93	209.40
	16.302	181.76	217.59
	16.288	181.82	217.67
January 1, 2020	16.768	185.37	221.88
February 1, 2020	17.547	189.22	226.49
March 1, 2020	17.424	188.72	225.90
April 1, 2020	15.644	179.61	214.96
May 1, 2020	11.215	157.94	188.96
June 1, 2020	10.575	151.51	181.25
July 1, 2020	11.359	154.68	185.07
August 1, 2020	14.389	170.16	203.65
September 1, 2020	14.569	171.01	204.67
October 1, 2020	14.274	169.56	202.93
November 1, 2020	13.426	163.74	195.96
December 1, 2020	13.032	161.87	193.70
January 1, 2021 February 1, 2021 March 1, 2021 April 1, 2021 May 1, 2021 June 1, 2021 July 1, 2021 August 1, 2021 September 1, 2021 October 1, 2021 November 1, 2021 December 1, 2021	13.543	164.41	196.74
	14.523	168.63	201.81
	15.091	171.67	205.45
	15.486	173.51	207.68
	16.982	183.19	219.28
	16.726	184.08	220.35
	17.040	187.04	223.92
	18.134	193.08	231.16
	18.588	195.30	233.83
	18.447	194.63	233.01
	19.470	197.22	236.14
	20.549	202.87	242.91
January 1, 2022	20.942	210.36	251.90
February 1, 2022	20.361	207.20	248.09
March 1, 2022	22.943	220.40	263.93
April 1, 2022	25.717	234.05	280.30
May 1, 2022	27.068	241.26	288.97
June 1,2022	31.165	263.48	315.62
July 1, 2022	30.355	259.50	310.86
August 1, 2022	30.507	260.56	312.13
September 1, 2022	27.322	244.46	292.81
October 1, 2022	26.850	242.17	290.06
November 1, 2022	24.879	231.99	277.85

HAWAII ELECTRIC LIGHT COMPANY, INC. RESIDENTIAL SURCHARGE DATA

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE		RATE
1/1/2020-10/31/2020	INTERIM RATE ADJUSTMENT 2019	4.0900	PERCENT ON BASE
1/1/2020-6/30/2020	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.7437	CENTS/KWH
2/1/2020- 2/29/2020	PURCHASED POWER ADJUSTMENT CLAUSE	1.7631	CENTS/KWH
3/1/2020- 3/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE	1.7883	CENTS/KWH
4/1/2020- 4/30/2020	PURCHASED POWER ADJUSTMENT CLAUSE	1.7717	CENTS/KWH
4/1/2020- 4/30/2020	SOLARSAVER ADJUSTMENT	-0.0267	CENTS/KWH
05/01/2020-5/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE		CENTS/KWH
5/1/2020 -3/31/2021	SOLARSAVER ADJUSTMENT		CENTS/KWH
06/01/2020-6/30/2020	PURCHASED POWER ADJUSTMENT CLAUSE		CENTS/KWH
6/1/2020-5/31/2021	RBA RATE ADJUSTMENT		CENTS/KWH
07/01/2020-7/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE		CENTS/KWH
7/1/2020- 6/30/2021	RESIDENTIAL PBF SURCHARGE ADJUSTMENT		CENTS/KWH
7/1/2020	GREEN INFRASTRUCTURE FEE		DOLLARS/MONTH
8/1/2020-8/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE		CENTS/KWH
9/1/2020-9/30/2020 10/1/2020-10/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE PURCHASED POWER ADJUSTMENT CLAUSE		CENTS/KWH CENTS/KWH
11/1/2020-10/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE PURCHASED POWER ADJUSTMENT CLAUSE		CENTS/KWH
11/1/2020	Final Rates (TY2019), Docket No. 2018-0368, Order No.		CLIVI 3/RVVII
12/1/2020-12/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE		CENTS/KWH
1/1/2021-1/31/2021	PURCHASED POWER ADJUSTMENT CLAUSE		CENTS/KWH
1/1/2021-6/30/2021	GREEN INFRASTRUCTURE FEE		DOLLARS/MONTH
2/1/2021-2/28/2021	PURCHASED POWER ADJUSTMENT CLAUSE		CENTS/KWH
3/1/2021-3/31/2021	PURCHASED POWER ADJUSTMENT CLAUSE		CENTS/KWH
4/1/2021-4/30/2021	PURCHASED POWER ADJUSTMENT CLAUSE	1.7966	CENTS/KWH
4/1/2021-4/30/2021	SOLARSAVER ADJUSTMENT	-0.0033	CENTS/KWH
5/1/2021-5/31/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.2319	CENTS/KWH
5/1/2021-3/31/2022	SOLARSAVER ADJUSTMENT	0.0000	CENTS/KWH
6/1/2021-6/30/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.2333	CENTS/KWH
6/1/2021-12/31/2021	RBA RATE ADJUSTMENT	-0.0299	CENTS/KWH
7/1/2021-12/31/2021	GREEN INFRASTRUCTURE FEE		DOLLARS/MONTH
7/1/2021-7/31/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.4649	CENTS/KWH
7/1/2021-06/30/2022	RESIDENTIAL PBF SURCHARGE ADJUSTMENT		CENTS/KWH
8/1/2021-8/31/2021	PURCHASED POWER ADJUSTMENT CLAUSE		CENTS/KWH
8/1/2021-10/31/2021	RESIDENTIAL DSM ADJUSTMENT		CENTS/KWH
9/1/2021-9/30/2021	PURCHASED POWER ADJUSTMENT CLAUSE		CENTS/KWH
10/1/2021-10/31/2021	PURCHASED POWER ADJUSTMENT CLAUSE		CENTS/KWH
11/1/2021-11/30/2021 11/1/2021	PURCHASED POWER ADJUSTMENT CLAUSE RESIDENTIAL DSM ADJUSTMENT		CENTS/KWH CENTS/KWH
12/1/2021-12/31/2021	PURCHASED POWER ADJUSTMENT CLAUSE		CENTS/KWH
1/1/2022-06/30/2022	GREEN INFRASTRUCTURE FEE		DOLLARS/MONTH
1/1/2022-5/31/2022	RBA RATE ADJUSTMENT		CENTS/KWH
1/1/2022-1/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE		CENTS/KWH
2/1/2022-2/28/2022	PURCHASED POWER ADJUSTMENT CLAUSE		CENTS/KWH
2/1/2022- 4/30/2022	RESIDENTIAL DSM ADJUSTMENT	-0.0043	CENTS/KWH
3/1/2022-3/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE		CENTS/KWH
4/1/2022-4/30/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.1141	CENTS/KWH
4/1/2022-4/30/2022	SOLARSAVER ADJUSTMENT	-0.0011	CENTS/KWH
5/1/2022-5/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.2917	CENTS/KWH
5/1/2022	SOLARSAVER ADJUSTMENT	0.0000	CENTS/KWH
5/1/2022-7/31/2022	RESIDENTIAL DSM ADJUSTMENT	-0.0912	CENTS/KWH
6/1/2022-6/30/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.3052	CENTS/KWH
6/1/2022	RBA RATE ADJUSTMENT		CENTS/KWH
7/1/2022-7/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE		CENTS/KWH
7/1/2022-12/31/2022	GREEN INFRASTRUCTURE FEE		DOLLARS/MONTH
7/1/2022	RESIDENTIAL PBF SURCHARGE ADJUSTMENT		CENTS/KWH
8/1/2022-8/31/2022 8/1/2022-10/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE RESIDENTIAL DSM ADJUSTMENT		CENTS/KWH CENTS/KWH
9/1/2022-10/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE		CENTS/KWH
10/1/2022-9/30/2022	PURCHASED POWER ADJUSTMENT CLAUSE		CENTS/KWH
11/1/2022-11/30/2022	PURCHASED POWER ADJUSTMENT CLAUSE		CENTS/KWH
11/1/2022	RESIDENTIAL DSM ADJUSTMENT		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 Adjustment 2019 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				
	10/01/22	11/01/22		
effective date:	11/01/2020	11/01/2020		
¢/kwh	-	-		
¢/kwh				
¢/kwh	13.4059	13.4059		
¢/kwh	16.7577	16.7577		
\$	11.50	11.50		
% on base	0.0000%	0.0000%		
¢/kwh	1.3708	1.3708		
¢/kwh	2.2771	2.2180		
¢/kwh	0.6488	0.6488		
¢/kwh	0.0035	(0.0017)		
¢/kwh	0.0000	0.0000		
¢/kwh	26.8500	24.8790		
\$	1.18	1.18		

Charge (\$) at 500 Kwh				
10/01/22	11/01/22	Difference		
\$0.00	\$0.00	\$0.00		
\$73.74	\$73.74	\$0.00		
\$40.22	\$40.22	\$0.00		
\$33.52	\$33.52	\$0.00		
\$11.50	\$11.50	\$0.00		
\$85.24	\$85.24	\$0.00		
\$0.00	\$0.00	\$0.00		
\$6.85	\$6.85	\$0.00		
\$11.39	\$11.09	-\$0.30		
\$3.24	\$3.24	\$0.00		
\$0.02	-\$0.01	-\$0.03		
\$0.00	\$0.00	\$0.00		
\$134.25	\$124.40	-\$9.85		
\$1.18	\$1.18	\$0.00		
\$242.17	\$231.99			

Increase (Decrease -) % Change

-\$10.18 -4.20%

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 Adjustment 2019 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				
	10/01/22	11/01/22		
effective date: ¢/kwh ¢/kwh ¢/kwh ¢/kwh	11/01/2020 - 13.4059 16.7577 11.50	11/01/2020 - 13.4059 16.7577 11.50		
% on base ¢/kwh	0.0000% 1.3708	0.0000% 1.3708		
¢/kwh	2.2771	2.2180		
¢/kwh	0.6488	0.6488		
¢/kwh	0.0035	(0.0017)		
¢/kwh	0.0000	0.0000		
¢/kwh	26.8500	24.8790		
\$	1.18	1.18		

Charge (\$) at 600 Kwh				
10/01/22	11/01/22	Difference		
\$0.00	\$0.00	\$0.00		
\$90.49	\$90.49	\$0.00		
\$40.22	\$40.22	\$0.00		
\$50.27	\$50.27	\$0.00		
\$11.50	\$11.50	\$0.00		
\$101.99	\$101.99	\$0.00		
\$0.00	\$0.00	\$0.00		
\$8.22	\$8.22	\$0.00		
\$13.66	\$13.31	\$5.09		
\$3.89	\$3.89	\$0.00		
\$0.02	-\$0.01	-\$0.03		
\$0.00	\$0.00	\$0.00		
\$161.10	\$149.27	-\$11.83		
\$1.18	\$1.18	\$0.00		
\$290.06	\$277.85			

Increase (Decrease -) % Change

-\$12.21 -4.21%

Phillipson, Yvonne

From: puc@hawaii.gov

Sent: Wednesday, October 26, 2022 11:35 AM

To: Phillipson, Yvonne

Subject: Hawaii PUC eFiling Confirmation of Filing

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