



SHARON M. SUZUKI
President

August 28, 2019

FILED

2019 AUG 28 P 3:22

PUBLIC UTILITIES
COMMISSION

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

Dear Commissioners:

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

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") Energy Cost Recovery factor for September 2019 is 14.845 cents per kilowatt-hour ("kWh"), a decrease of 0.49 cents per kWh from last month.

Hawai'i Electric Light's fuel composite cost of generation decreased 47.65 cents per million BTU to 1,330.21 cents per million BTU. The composite cost of distributed generation increased 0.46 cents per kWh to 16.091 cents per kWh. The composite cost of purchased energy decreased 0.67 cents per kWh to 12.231 cents per kWh.

A residential customer consuming 500 kWh of electricity will be paying \$175.70, a decrease of \$2.44 compared to rates effective August 1, 2019. The decrease in the typical residential bill is due to the decrease of (-\$2.43) of the Energy Cost Recovery Factor and the decrease in the Purchased Power Adjustment rate (-\$0.01).

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 September 1, 2019.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST RECOVERY FACTOR

	<u>EFFECTIVE DATES</u>		
	<u>8/01/19</u>	<u>9/01/19</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	1,377.86	1,330.21	(47.65)
Dispersed Generation Energy, ¢/kWh	15.630	16.091	0.46
Purchased Energy, ¢/kWh	12.901	12.231	(0.67)
<u>Residential Schedule "R"</u>			
Energy Cost Recovery - ¢/kWh	15.331	14.845	(0.49)
<u>Others - "G,J,P,F"</u>			
Energy Cost Recovery - ¢/kWh	15.331	14.845	(0.49)
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$178.14	\$175.70	(\$2.44)
600 KWH Consumption - \$/Bill	\$213.25	\$210.32	(\$2.93)

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

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

<u>Line</u>		
1	Effective Date	September 1, 2019
2	Supercedes Factors of	August 1, 2019

GENERATION COMPONENT

<u>CENTRAL STATION WITH WIND/HYDRO COMPONENT</u>						
FUEL PRICES, ¢/mmbtu						
3						
4	Hill Industrial		988.58			
5	Puna Industrial		1,009.91			
6	Keahole Diesel		1,607.20			
6a	Keahole ULSD		1,720.36			
7	Waimea ULSD Diesel		1,715.98			
8	Hilo Diesel		1,575.78			
8a	Hilo (Kanoelehua) ULSD Diesel ¹		1,689.96			
9	Puna Diesel		1,578.98			
10	Wind		0.00			
11	Hydro		0.00			
BTU MIX, %						
12						
13	Hill Industrial		30.126			
14	Puna Industrial		6.710			
15	Keahole Diesel		42.766			
15a	Keahole ULSD		0.293			
16	Waimea ULSD Diesel		0.386			
17	Hilo Diesel		6.277			
17a	Hilo (Kanoelehua) ULSD Diesel ¹		0.299			
18	Puna Diesel		10.238			
19	Wind		0.000			
20	Hydro		2.904			
			100.000			
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmbtu		1,330.21			
22	% Input to System kWh Mix		53.165			
EFFICIENCY FACTOR, mmbtu/kWh						
	(A)	(B)	(C)	(D)		
		Eff Factor	Percent of	Weighted		
	<u>Fuel Type</u>	<u>mmbtu/kwh</u>	<u>Centrl Stn + Wind/Hydro</u>	<u>Eff Factor</u>		
23	Industrial	0.014569	36.836	0.005367		
24	Diesel	0.010480	60.260	0.006315		
25	Other	0.012395	2.904	0.000360		
	(Lines 23, 2		100.0000			
26	Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)]			0.0120420		
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26))			8.51618		
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)			8.51618		
33	Revenue Tax Req Multiplier			1.0975		
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33))			9.34651		
				<u>DG ENERGY COMPONENT</u>		
				35	COMPOSITE COST OF DG ENERGY, ¢/kWh	16.091
				36	% Input to System kWh Mix	0.117
				37	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36)	0.01883
				38	BASE DG ENERGY COMPOSITE COS	0.000
				39	Base % Input to System kWh Mix	0.00
				40	WEIGHTED BASE DG ENERGY COST, ¢/kWh (Line 38 x 39)	0.00000
				41	Cost Less Base (Line 37 - 40)	0.01883
				42	Loss Factor	1.072
				43	Revenue Tax Req Multiplier	1.0975
				44	DG FACTOR, ¢/kWh (Line 41 x 42 x 43)	0.02215
				SUMMARY OF		
				TOTAL GENERATION FACTOR, ¢/kWh		
				45	Cntrl Stn+Wind/Hydro (line 34)	9.34651
				46	DG (line 44)	0.02215
				47	TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)	9.36866

¹ Hilo ULSD same location as Kanoelehua ULSD

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

INDUSTRIAL FUEL COSTS:

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	62.2808	62.2808
Land Transportation Cost - \$/BBL	--	1.3436
	<hr/>	<hr/>
Industrial Costs For Filing - \$/BBL	62.2808	63.6243
Conversion Factors - mmbtu/BBL	6.30	6.30
	<hr/>	<hr/>
Industrial Costs For Filing - ¢/mmbtu	<u>988.58</u>	<u>1,009.91</u>

DIESEL FUEL COSTS:

	<u>KEAHOLE</u>	<u>PUNA CT-3</u>	<u>HILO</u>
Average Diesel Fuel Cost - \$/BBL	91.2408	91.2408	91.2408
Land Transportation Cost - \$/BBL	2.9409	1.2876	1.1000
	<hr/>	<hr/>	<hr/>
Diesel Costs For Filing - \$/BBL	94.1817	92.5284	92.3408
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
	<hr/>	<hr/>	<hr/>
Diesel Costs For Filing - ¢/mmbtu	<u>1,607.20</u>	<u>1,578.98</u>	<u>1,575.78</u>

ULSD FUEL COSTS:

	<u>KEAHOLE</u>	<u>WAIMEA</u>	<u>HILO</u>	<u>DISPERSED GENERATION</u>
Average ULSD Fuel Cost - \$/BBL	95.5034	95.5034	95.5034	95.5034
Land Transportation Cost - \$/BBL	3.0735	2.8220	1.3314	-
	<hr/>	<hr/>	<hr/>	<hr/>
ULSD Costs For Filing - \$/BBL	98.5769	98.3254	96.8348	95.5034
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
	<hr/>	<hr/>	<hr/>	<hr/>
ULSD Costs For Filing - ¢/mmbtu	<u>1,720.36</u>	<u>1,715.98</u>	<u>1,689.96</u>	<u>1,666.73</u>

Dispersed Generation, cents per kWh

	<u>COMPOSITE COST OF DISP. GEN.</u>
BBIs Fuel:	185.3396
\$/BBI Inv Cost:	<u>95.5034</u>
Fuel \$ (Prod Sim Consumption x Unit Cost)	17,700.55
Net kWh (from Prod Sim)	110,000
cents/kWh:	16.091

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

	SHIPMAN INDUSTRIAL		HILL INDUSTRIAL		COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 06/30/2019	0	0.00	39,779	2,695,453.91			
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	(38,734)	(2,630,073.42)			
Actual	0	0.00	39,025	2,644,210.66			
Consumed: Estimate	0	0.00	35,209	2,483,744.97			
Actual	0	0.00	(34,269)	(2,618,139.93)			
Balance Per G/L 06/30/2019	0	0.00	41,010	2,575,196.19			
Purchases	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0.00	23,673	1,470,197.55			
Consumed	0	0.00	(37,112)	(2,335,250.33)	106.5901	0.0000	106.5901
Balance @ 07/31/2019	0	0.00	27,571	1,710,143.41			
Inv From Offsite/Transfers	0	0.00	895	55,386.71			
Est'd Inventory Addition	0	0.00	0	0.00			
Fuel Balance @ 07/31/2019	0	0.00	28,466	1,765,530.12			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxx	(1,765,530.12)			
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxx	1,772,853.58			
Total @ 08/01/2019 Avg Price	0	0.00	28,466	1,772,853.58			

Weighted Avg Cost/BBL by Location #DIV/0! 62.0235

Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 62.2808

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

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 06/30/2019	5,347	411,757.90	8,159.48			
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	(6,023)	(413,692.52)	(7,922.11)			
Actual	6,163	414,193.02	8,189.12			
Consumed: Estimate	8,553	603,353.42	13,092.08			
Actual	(5,963)	(508,421.88)	(8,925.46)			
Balance Per G/L 06/30/2019	8,077	507,189.94	12,593.11			
Purchases	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	7,812	502,523	10,275.20			
Consumed	(8,334)	(524,411.95)	(12,717.68)	62.9244	1.5260	64.4504
Balance @ 07/31/2019	7,555	485,301.16	10,150.63			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	7,555	485,301.16	10,150.63		1.3436	
Reverse Fuel Balance	XXXXXXXXXXXX	(485,301.16)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	470,531.30	XXXXXXXXXXXX			
Total @ 08/01/2019 Avg Price	7,555	470,531.30	10,150.63			

Weighted Avg Cost/BBL by Location

64.2358

1.3436

Weighted Avg Cost/BBL @ Avg Cost

62.2808

1.3436

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

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER BARREL EXCL LT	BARREL LT	TOTAL
Balance at 06/30/2019	4,083.4	171,503.0	353,715.8	4,809.5			
Less: Est'd Inven Addition	0.0	0.0	0.0	0.0			
Purchases: Estimate		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Actual		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfers out: Estimate		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Actual		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfers in: Estimate	(4,071.6)	(171,007.0)	(355,386.2)	(4,514.6)			
Actual	2,998.4	125,934.0	282,242.6	3,520.8			
Consumed: Estimate	4,576.7	192,221.0	462,412.8	5,175.8			
Actual	(3,790.1)	(159,185.0)	(398,348.6)	(3,466.4)			
Balance Per G/L 06/30/2019	3,796.8	159,466	344,636.32	5,525.01			
Purchases		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer in	6,915.9	290,467.0	634,735.8	7,668.3	91.7795		
Consumed	(5,467.2)	(229,623)	(496,933.69)	(6,439.28)	90.8934	1.1778	92.0712
Balance @ 07/31/2019	5,245.5	220,310	482,438.47	6,754.05	91.9723		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 07/31/2019	5,245.5	220,310	482,438.47	6,754.05	91.9723		
Reverse Fuel Balance		XXXXXXXXXXXXXXXXXXXX	(482,438.47)	XXXXXXXXXXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXXXXXXXXXX	478,601.35	XXXXXXXXXXXXXXXXXXXX			
Total @ 08/01/2019 Avg Price	5,245.5	220,310	478,601.35	6,754.05	91.2408		

Weighted Avg Cost/BBL by Location

91.9723 1.2876

Weighted Avg Cost/BBL @ Avg Cost

91.2408 1.2876

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

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 06/30/2019	1843.6	77,431	196,590	2,341			
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	0.0	0.0	0.0	0.0			
Actual	-1.0	-44.0	0.0	0.0			
Consumed: Estimate	118.0	4957.0	11924.7	147.6			
Actual	-122.6	-5150.0	-41683.5	-378.5			
Balance Per G/L 06/30/2019	1838.0	77,194	166,830.90	2,109.71	90.7700		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	187.2	7862.0	17410.0	183.2	#DIV/0!		
Consumed	-384.5	-16151.0	-34952.8	-488.2	90.8934	1.2696	92.1630
Balance @ 07/31/2019	1,640.6	68,905	149,288.04	1,804.67	90.9963		
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	1,640.6	68,905	149,288.04	1,804.67	90.9963		
Reverse Fuel Balance		XXXXXXXXXXXX	XXXXXXXXXXXX -149,288.04	XXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXX	XXXXXXXXXXXX 149,689.19	XXXXXXXXXXXX			
Total @ 08/01/2019 Avg Price	1,640.6	68,905	149,689.19	1,804.67	91.2408		
Weighted Avg Cost/BBL by Location			90.9963	1.1000			
Weighted Avg Cost/BBL @ Avg Cost			91.2408	1.1000			

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

KEAHOLE DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 06/30/2019	2,159.3	90,690	199,891.52	4,612.35			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(188.4)	(7,911)	(17,116.42)	(535.57)			
Actual	188.4	7,911	17,116.42	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate		229	0.00	15.50			
Actual		(238)	0.00	535.57			
Consumed: Estimate	213.7	8,975	19,872.53	441.36			
Actual	(170.2)	(7,149)	(17,313.06)	1,352.86	101.7133		
Balance Per G/L 06/30/2019	2,202.5	92,507	202,450.99	6,422.07	91.9167		
Purchases	0.0	0	0.00	0.00	0.0000		
Estimated Purchases	190.0	7,980	17,992.46	540.25			
Transfer in	10.5	442	0.00	29.92	0.00		
Consumed	(419.9)	(17,636)	(38,951.54)	(896.96)	92.7628	2.1361	94.8989
Balance @ 07/31/2019	1,983.2	83,293	181,491.91	6,095.28	91.5162		
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	1,983.2	83,293	181,491.91	6,095.28	91.5162		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(181,491.91)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	189,399.11	xxxxxxxxxxxx			
Total @ 08/01/2019 Avg Price	1,983.2	83,293	189,399.11	6,095.28	95.5034		

Weighted Avg Cost/BBL by Location

91.5162 3.0735

Weighted Avg Cost/BBL @ Avg Cost

95.5034 3.0735

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

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 06/30/2019	823.9	34,604.0	73,353.7	2,720.14			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Purchases: Estimate		0	0.00	0.00			
Actual		7,917.0	17,129.4	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate	(0.0)	(2)	0.00	0.00			
Actual	(0.9)	(36)	0.00	446.52			
Consumed: Estimate	180.5	7,583	16,790.35	595.39			
Actual	(118.6)	(4,980)	(8,603.02)	(391.01)			
Balance Per G/L 06/30/2019	1,073.5	45,086	98,670.42	3,371.04	91.9167		
ULSD Purchases	376.7	15,821	35,671.51	892.30	94.6971		
Estimated Purchases	-	0	0.00	0.00			
Transfer in	xxxxxxxxxxxx	241	0.00	0.00	#DIV/0!		
Consumed	(322.7)	(13,555)	(29,938.09)	(1,065.52)	92.7628	3.3015	96.0643
Balance @ 07/31/2019	1,133.2	47,593	104,403.84	3,197.82	92.1346		
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	1,133.2	47,593	104,403.84	3,197.82	92.1346		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(104,403.84)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	108,221.24	xxxxxxxxxxxx			
Total @ 08/01/2019 Avg Price	1,133.2	47,593	108,221.24	3,197.82	95.5034		

Weighted Avg Cost/BBL by Location

92.1346 2.8220

Weighted Avg Cost/BBL @ Avg Cost

95.5034 2.8220

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

KANOELEHUA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP		
Balance at 06/30/2019	1,180.1	49,566.0	111,334.8	1,162.8		
Less: Est'd Inventory Addition	0.0	0	0.00	0.00		
Purchases: Estimate	0.0	0	0.00	0.00		
Actual	0.0	0	0.00	0.00		
Transfers out: Estimate		x	x	x		
Actual		x	x	x		
Transfers in: Estimate		0	0.00	0.00		
Actual		0	0.00	0.00		
Consumed: Estimate	48.4	2,031	967.04	26.58		
Actual	(48.9)	(2,055)	(3,879.50)	164.56		
Balance Per G/L 06/30/2019	1,179.6	49,542	108,422.36	1,353.98		
ULSD Purchases	0	0	0.00	0.00	#DIV/0!	
Estimated Purchases	0	-	-	-		
Transfer in	0	0	0.00	0.00		
Consumed	(182.6)	(7,668)	(967.04)	(26.58)	92.7628	0.9853
Balance @ 07/31/2019	997.0	41,874	107,455.32	1,327.40		
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	997.0	41,874	107,455.32	1,327.40		
Reverse Fuel Balance	x	x	(107,455.32)	x		
Fuel Balance @ Avg Price	x	x	95,216.86	x		
Total @ 08/01/2019 Avg Price	997.0	41,874	95,216.86	1,327.40		

Weighted Avg Cost/BBL by Location

107.7787 1.3314

Weighted Avg Cost/BBL @ Avg Cost

95.5034 1.3314

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

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 06/30/2019	131.1	5,505	13,781.02	
Less: Est'd Inven Addition	0.0	XXXXXXXXXXXXXXXXXXXX		
Purchases: Estimate	0.0	0	0.00	
Actual	28.3	1,187	2,568.22	
Consumed: Estimate	8.9	374	828.11	
Actual	(7.1)	(299)	(2,367.81)	
	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
Balance Per G/L 06/30/2019	161.12	6,767	14,809.54	91.9168
Purchases	0.0	0	0.00	0.0000
Transfer out	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
Consumed	(23.4)	(981)	(2,166.67)	92.7628
Balance @ 07/31/2019	137.8	5,786	12,642.87	91.7733
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 07/31/2019	137.8	5,786	12,642.87	
Reverse Fuel Balance	XXXXXXXXXXXX	XXXXXXXXXXXX	(12,642.87)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXXXX	XXXXXXXXXXXX	13,156.73	xxxx
Total @ 08/01/2019 Avg Price	137.8	5,786	13,156.73	95.5034

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

		September 1, 2019 <u>(¢/kWh)</u>	Floor Rates <u>(¢/kWh)</u>
PGV (25 MW)	- on peak	14.687	6.560
PGV (22 MW)	- off peak	13.097	5.430
WAILUKU HYDRO	- on peak	14.687	7.240
	off peak	13.097	5.970
Other: (<100 KW)	Sch Q Rate	13.670	
		September 1, 2019 <u>(¢/kWh)</u>	Floor Rates <u>(¢/kWh)</u>
HEP		11.743	
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
September 1, 2019

<u>Line No.</u>	<u>Description</u>	<u>Amount</u>
1	Amount to be (returned) or collected	(\$3,027,900)
2	Monthly Amount ($\frac{1}{3}$ x Line 1)	(\$1,009,300)
3	Revenue Tax Divisor	0.91115
4	Total (Line 2 / Line 3)	(\$1,107,721)
5	Estimated MWh Sales (September 1, 2019)	88,849 mwh
6	Adjustment (Line 4 / Line 5)	(1.247) ¢/kwh

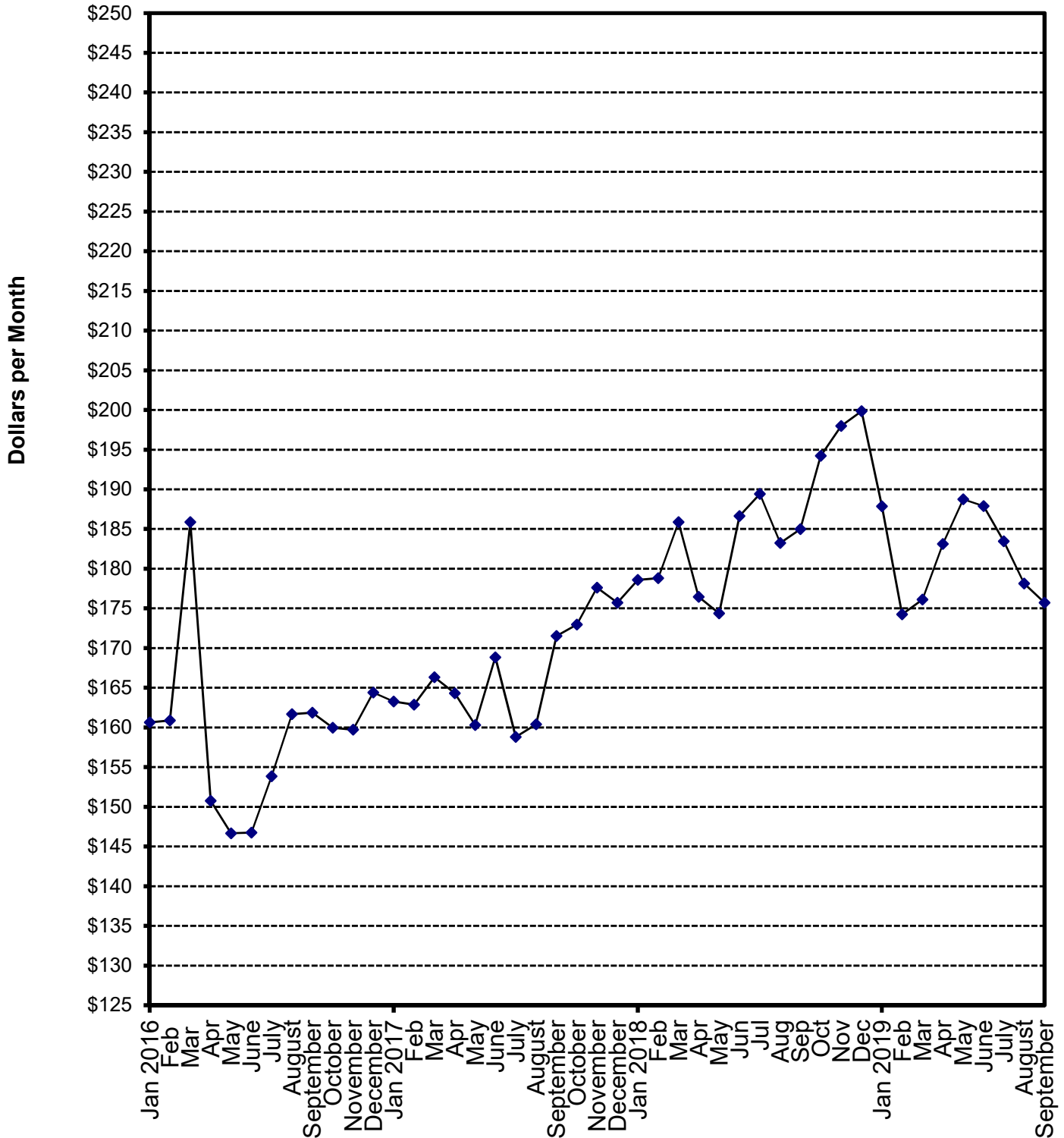
HAWAII ELECTRIC LIGHT COMPANY, INC.
2019 Cumulative Reconciliation Balance

<u>Month</u>	(1) <u>YTD FOA Reconciliation</u>	<u>Qtr</u>	(2) <u>FOA Rec Adjust Variance</u>	(3) <u>FOA Rec Less Variance</u>	(4) <u>Try to Collect</u>	(5) <u>Actual Collect</u>	(6) <u>Month-end Cumulative Balance</u>
January 18					(238,067)	(242,224)	1,462
February	825,100	[4]	(29,783)	854,883	(275,033)	(279,869)	576,476
March					(275,033)	(283,895)	292,581
April					(275,033)	(291,829)	752
May	1,153,900	(1)	(17,855)	1,171,755	(384,633)	(398,709)	773,798
June					(384,633)	(387,715)	386,083
July					(384,633)	(399,033)	(12,950)
August	699,900	[2]	(33,954)	733,854	(233,300)	(244,658)	476,246
September					(233,300)	(240,110)	236,136
October					(233,300)	(241,346)	(5,210)
November	917,000	[3]	(32,568)	949,568	(305,667)	(309,251)	635,107
December 18					(305,667)	(302,091)	333,016
January 19					(305,667)	(300,243)	32,773
February	2,598,900	[4]	(8,054)	2,606,954	(866,300)	(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)		
September					(1,009,300)		

NOTES:

- Col(1): Quarterly FOA reconciliation amounts. (Refer to Attachment 6)
A positive number is an over-collection. A negative number is an under-collection.
- Col(2): FOA reconciliation adjustment variance accumulated during the last three months, starting with the fourth prior month; the difference between the estimated recorded sales used to derive the \$/kwh adjustment and the actual recorded sales.
(Col(5)-Col(4))
- Col(3): FOA reconciliation generated in the current quarter. The YTD FOA reconciliation difference minus the adjustment variance. Col(1)-Col(2)
- Col(4): Amount that the FOA reconciliation adjustment is trying to collect. (Col(1) * 1/3)
- Col(5): Actual collected amount. (recorded sales * \$/kwh adjustment/1.09751)
- Col(6): Cumulative balance of the FOA reconciliation (Previous balance + Col(3) + Col(5))

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



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

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

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

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
04/09/12	FINAL RATE INCREASE (1.28%), DOCKET NO. 2009-0164 (2010 TEST YEAR)	
1/1/2016-1/31/2016	PURCHASED POWER ADJUSTMENT CLAUSE	2.3260 CENTS/KWH
1/1/2016-06/30/16	GREEN INFRASTRUCTURE FEE	1.3000 DOLLARS/MONTH
2/1/2016 - 2/29/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.1114 CENTS/KWH
3/1/2016 - 3/31/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.1401 CENTS/KWH
4/1/2016 - 4/30/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.1228 CENTS/KWH
4/1/2016 - 4/30/16	SOLARSAVER ADJUSTMENT	-0.2779 CENTS/KWH
5/1/2016 - 5/31/16	PURCHASED POWER ADJUSTMENT CLAUSE	1.8623 CENTS/KWH
5/1/2016	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
6/1/2016 - 6/30/16	PURCHASED POWER ADJUSTMENT CLAUSE	1.8442 CENTS/KWH
6/1/2016	RBA RATE ADJUSTMENT	1.4241 CENTS/KWH
7/1/2016-7/31/16	PURCHASED POWER ADJUSTMENT CLAUSE	1.8909 CENTS/KWH
7/1/2016	GREEN INFRASTRUCTURE FEE	1.1300 DOLLARS/MONTH
7/1/2016	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.5865 CENTS/KWH
8/1/2016-8/31/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.3000 CENTS/KWH
9/1/2016-9/30/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.2824 CENTS/KWH
10/1/2016-10/31/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.2930 CENTS/KWH
11/1/2016-11/30/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.3298 CENTS/KWH
12/1/2016-12/31/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.3371 CENTS/KWH
1/1/2017-1/31/2017	PURCHASED POWER ADJUSTMENT CLAUSE	2.3400 CENTS/KWH
1/1/2017	GREEN INFRASTRUCTURE FEE	1.2700 DOLLARS/MONTH
2/1/2017 - 2/28/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.3737 CENTS/KWH
3/1/2017 - 3/31/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.3809 CENTS/KWH
4/1/2017-4/30/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.3781 CENTS/KWH
4/1/2017-4/30/17	SOLARSAVER ADJUSTMENT	-0.2462 CENTS/KWH
5/1/2017-5/31/17	PURCHASED POWER ADJUSTMENT CLAUSE	1.9396 CENTS/KWH
5/1/2017	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
6/1/2017-6/30/17	PURCHASED POWER ADJUSTMENT CLAUSE	1.9225 CENTS/KWH
6/1/2017	RBA RATE ADJUSTMENT	1.4533 CENTS/KWH
7/1/2017 - 7/31/2017	PURCHASED POWER ADJUSTMENT CLAUSE	1.9710 CENTS/KWH
7/1/2017- 12/31/17	GREEN INFRASTRUCTURE FEE	1.1800 DOLLARS/MONTH
7/1/2017	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.4244 CENTS/KWH
8/1/2017-8/31/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.7161 CENTS/KWH
9/1/2017-9/30/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.7515 CENTS/KWH
8/31/2017-4/30/18	INTERIM RATE INCREASE 2016	5.8800 PERCENT ON BASE
8/31/2017	RBA RATE ADJUSTMENT	0.6313 CENTS/KWH
10/1/2017 - 10/31/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.7257 CENTS/KWH
11/1/2017 - 11/30/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.4067 CENTS/KWH
12/1/2017 - 12/31/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.4090 CENTS/KWH
1/1/2018 - 1/31/18	PURCHASED POWER ADJUSTMENT CLAUSE	2.4105 CENTS/KWH
1/1/18-6/30/18	GREEN INFRASTRUCTURE FEE	1.3400 DOLLARS/MONTH
2/1/18-2/28/18	PURCHASED POWER ADJUSTMENT CLAUSE	2.3101 CENTS/KWH
3/1/18 - 3/31/18	PURCHASED POWER ADJUSTMENT CLAUSE	2.3258 CENTS/KWH
04/1/18-04/30/18	PURCHASED POWER ADJUSTMENT CLAUSE	2.3184 CENTS/KWH
04/1/18-04/30/18	SOLARSAVER ADJUSTMENT	-0.1464 CENTS/KWH
05/1/18-05/31/18	PURCHASED POWER ADJUSTMENT CLAUSE	2.3395 CENTS/KWH
05/1/18-05/31/18	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
5/1/2018	INTERIM RATE INCREASE 2016	2.5000 PERCENT ON BASE
06/01/18-06/30/18	PURCHASED POWER ADJUSTMENT CLAUSE	1.6729 CENTS/KWH
6/1/2018	RBA RATE ADJUSTMENT	1.0006 CENTS/KWH
07/01/18-07/31/18	PURCHASED POWER ADJUSTMENT CLAUSE	1.6811 CENTS/KWH
7/1/2018- 12/31/18	GREEN INFRASTRUCTURE FEE	1.2100 DOLLARS/MONTH
7/1/2018	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.4658 CENTS/KWH
08/01/18-08/31/18	PURCHASED POWER ADJUSTMENT CLAUSE	1.6110 CENTS/KWH
09/01/18-09/30/18	PURCHASED POWER ADJUSTMENT CLAUSE	1.5950 CENTS/KWH
10/01/18-10/31/18	PURCHASED POWER ADJUSTMENT CLAUSE	1.8602 CENTS/KWH
10/1/2018	INTERIM RATE INCREASE 2016	0.0000 PERCENT ON BASE
10/1/2018	FINAL RATE INCREASE (TY 2016) 0.53% EFFECTIVE 10/01/18, DOCKET NO. 2015-0170	
11/1/2018-11/30/18	PURCHASED POWER ADJUSTMENT CLAUSE	2.0617 CENTS/KWH
12/1/2018-12/31/18	PURCHASED POWER ADJUSTMENT CLAUSE	2.0577 CENTS/KWH
1/1/2019-1/31/19	PURCHASED POWER ADJUSTMENT CLAUSE	2.0548 CENTS/KWH
1/1/2019- 06/30/19	GREEN INFRASTRUCTURE FEE	1.3500 DOLLARS/MONTH
2/1/2019-2/28/19	PURCHASED POWER ADJUSTMENT CLAUSE	1.8113 CENTS/KWH
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
05/01/2019	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/2019-6/30/19	PURCHASED POWER ADJUSTMENT CLAUSE	1.9474 CENTS/KWH
6/1/2019	RBA RATE ADJUSTMENT	0.9069 CENTS/KWH
7/01/2019-7/31/19	PURCHASED POWER ADJUSTMENT CLAUSE	1.9539 CENTS/KWH
7/1/2019	GREEN INFRASTRUCTURE FEE	1.1700 DOLLARS/MONTH
7/1/2019	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

**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			
	08/01/19	09/01/19	08/01/19	09/01/19	Difference	
Base Rates	effective date:	2/1/2019	2/1/2019			
Base Fuel Energy Charge	¢/kwh	-	-	\$0.00	\$0.00	\$0.00
Non-Fuel Energy Charge	¢/kwh			\$71.85	\$71.85	\$0.00
First 300 kWh per month	¢/kwh	13.0289	13.0289	\$39.09	\$39.09	\$0.00
Next 700 kWh per month	¢/kwh	16.3807	16.3807	\$32.76	\$32.76	\$0.00
Customer Charge	\$	11.50	11.50	\$11.50	\$11.50	\$0.00
Total Base Charges				\$83.35	\$83.35	\$0.00
Interim Rate Increase 2016 TY	% on base	0.0000%	0.0000%	\$0.00	\$0.00	\$0.00
RBA Rate Adjustment	¢/kwh	0.9069	0.9069	\$4.53	\$4.53	\$0.00
Purchased Power Adj. Clause	¢/kwh	2.0075	2.0060	\$10.04	\$10.03	-\$0.01
PBF Surcharge	¢/kwh	0.4775	0.4775	\$2.39	\$2.39	\$0.00
DSM Adjustment	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
SolarSaver Adjustment	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
Energy Cost Recovery	¢/kwh	15.3310	14.8450	\$76.66	\$74.23	-\$2.43
Green Infrastructure Fee	\$	1.1700	1.1700	\$1.17	\$1.17	\$0.00
Avg Residential Bill at 500 kwh				\$178.14	\$175.70	
				Increase (Decrease -)		-\$2.44
				% Change		-1.37%

	Rate		Charge (\$) at 600 Kwh			
	08/01/19	09/01/19	08/01/19	09/01/19	Difference	
Base Rates	effective date:	2/1/2019	2/1/2019			
Base Fuel/Energy Charge	¢/kwh	-	-	\$0.00	\$0.00	\$0.00
Non-Fuel Energy Charge	¢/kwh			\$88.23	\$88.23	\$0.00
First 300 kWh per month	¢/kwh	13.0289	13.0289	\$39.09	\$39.09	\$0.00
Next 700 kWh per month	¢/kwh	16.3807	16.3807	\$49.14	\$49.14	\$0.00
Customer Charge	\$	11.50	11.50	\$11.50	\$11.50	\$0.00
Total Base Charges				\$99.73	\$99.73	\$0.00
Interim Rate Increase 2016 TY	% on base	0.0000%	0.0000%	\$0.00	\$0.00	\$0.00
RBA Rate Adjustment	¢/kwh	0.9069	0.9069	\$5.44	\$5.44	\$0.00
Purchased Power Adj. Clause	¢/kwh	2.0075	2.0060	\$12.05	\$12.04	-\$0.01
PBF Surcharge	¢/kwh	0.4775	0.4775	\$2.87	\$2.87	\$0.00
DSM Adjustment	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
SolarSaver Adjustment	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
Energy Cost Recovery	¢/kwh	15.3310	14.8450	\$91.99	\$89.07	-\$2.92
Green Infrastructure Fee	\$	1.1700	1.1700	\$1.17	\$1.17	\$0.00
Avg Residential Bill at 600 kwh				\$213.25	\$210.32	
				Increase (Decrease -)		-\$2.93
				% Change		-1.37%