



SHARON M. SUZUKI  
President

September 26, 2019

FILED

2019 SEP 26 P 3:17

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 October 2019

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") Energy Cost Recovery factor for October 2019 is 14.692 cents per kilowatt-hour ("kWh"), a decrease of 0.15 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$174.93, a decrease of \$0.77 compared to rates effective September 1, 2019. The decrease in the residential bill is due to the decrease in the Energy Cost Recovery factor.

Hawai'i Electric Light's fuel composite cost of generation decreased 58.26 cents per million BTU to 1,271.95 cents per million BTU. The composite cost of distributed generation decreased 0.78 cents per kWh to 15.313 cents per kWh. The composite cost of purchased energy increased 0.26 cents per kWh to 12.487 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 October 1, 2019.

Sincerely,

Hawai'i Electric Light

Attachments

cc: Division of Consumer Advocacy

## HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST RECOVERY FACTOR

	<u>EFFECTIVE DATES</u>		
	<u>9/01/19</u>	<u>10/01/19</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	1,330.21	1,271.95	(58.26)
Dispersed Generation Energy, ¢/kWh	16.091	15.313	(0.78)
Purchased Energy, ¢/kWh	12.231	12.487	0.26
<u>Residential Schedule "R"</u>			
Energy Cost Recovery - ¢/kWh	14.845	14.692	(0.15)
<u>Others - "G,J,P,F"</u>			
Energy Cost Recovery - ¢/kWh	14.845	14.692	(0.15)
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$175.70	\$174.93	(\$0.77)
600 KWH Consumption - \$/Bill	\$210.32	\$209.40	(\$0.92)

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

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

<u>Line</u>		
1	Effective Date	October 1, 2019
2	Supersedes Factors of	September 1, 2019

**GENERATION COMPONENT**

<b><u>CENTRAL STATION WITH WIND/HYDRO COMPONENT</u></b>					
FUEL PRICES, ¢/mmbtu					
3					
4	Hill Industrial		940.62		
5	Puna Industrial		962.25		
6	Keahole Diesel		1,569.42		
6a	Keahole ULSD		1,638.31		
7	Waimea ULSD Diesel		1,635.15		
8	Hilo Diesel		1,537.01		
8a	Hilo (Kanoelehua) ULSD Diesel <sup>1</sup>		1,607.83		
9	Puna Diesel		1,535.70		
10	Wind		0.00		
11	Hydro		0.00		
BTU MIX, %					
12	Hill Industrial		33.595		
14	Puna Industrial		5.681		
15	Keahole Diesel		44.875		
15a	Keahole ULSD		0.406		
16	Waimea ULSD Diesel		0.502		
17	Hilo Diesel		2.936		
17a	Hilo (Kanoelehua) ULSD Diesel <sup>1</sup>		0.372		
18	Puna Diesel		8.533		
19	Wind		0.000		
20	Hydro		3.100		
			100.000		
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmbtu		1,271.95		
22	% Input to System kWh Mix		53.029		
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	39.276	0.005722	
24	Diesel	0.010480	57.624	0.006039	
25	Other	0.012395	3.100	0.000384	
	(Lines 23, 2		100.0000		
26	Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)]			0.0121450	
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26))			8.19183	
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)			8.19183	
33	Revenue Tax Req Multiplier			1.0975	
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33))			8.99053	
				<b><u>DG ENERGY COMPONENT</u></b>	
				35	COMPOSITE COST OF DG
					ENERGY, ¢/kWh
					15.313
				36	% Input to System kWh Mix
					0.120
				37	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36)
					0.01838
				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)
					0.01838
				42	Loss Factor
					1.072
				43	Revenue Tax Req Multiplier
					1.0975
				44	DG FACTOR, ¢/kWh (Line 41 x 42 x 43)
					0.02162
				SUMMARY OF	
				TOTAL GENERATION FACTOR, ¢/kWh	
				45	Cntrl Stn+Wind/Hydro (line 34)
					8.99053
				46	DG (line 44)
					0.02162
				47	TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)
					9.01215

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



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

**INDUSTRIAL FUEL COSTS:**

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	59.2594	59.2594
Land Transportation Cost - \$/BBL	--	1.3626
Industrial Costs For Filing - \$/BBL	59.2594	60.6220
Conversion Factors - mmbtu/BBL	6.30	6.30
Industrial Costs For Filing - ¢/mmbtu	940.62	962.25

**DIESEL FUEL COSTS:**

	<u>KEAHOLE</u>	<u>PUNA CT-3</u>	<u>HILO</u>
Average Diesel Fuel Cost - \$/BBL	88.9496	88.9496	88.9496
Land Transportation Cost - \$/BBL	3.0186	1.0422	1.1192
Diesel Costs For Filing - \$/BBL	91.9682	89.9918	90.0688
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
Diesel Costs For Filing - ¢/mmbtu	1,569.42	1,535.70	1,537.01

**ULSD FUEL COSTS:**

	<u>KEAHOLE</u>	<u>WAIMEA</u>	<u>HILO</u>	<u>DISPERSED GENERATION</u>
Average ULSD Fuel Cost - \$/BBL	90.8808	90.8808	90.8808	90.8808
Land Transportation Cost - \$/BBL	2.9943	2.8133	1.2479	-
ULSD Costs For Filing - \$/BBL	93.8751	93.6941	92.1287	90.8808
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
ULSD Costs For Filing - ¢/mmbtu	1,638.31	1,635.15	1,607.83	1,586.05

**Dispersed Generation, cents per kWh**

	<u>COMPOSITE COST OF DISP. GEN.</u>
BBIs Fuel:	199.2400
\$/BBI Inv Cost:	90.8808
Fuel \$ (Prod Sim Consumption x Unit Cost)	18,107.09
Net kWh (from Prod Sim)	118,250
cents/kWh:	15.313



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

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 08/31/2019	7,555	485,301.16	10,150.63			
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	(7,812)	(502,523.17)	(10,275.20)			
Actual	7,930	502,963.27	10,556.68			
Consumed: Estimate	8,334	524,411.95	12,717.68			
Actual	<u>(7,487)</u>	<u>(471,114.74)</u>	<u>(11,057.92)</u>			
Balance Per G/L 08/31/2019	<u>8,520</u>	<u>539,038.47</u>	<u>12,091.87</u>			
Purchases	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	15,773	933,024	20,746.38			
Consumed	(13,849)	<u>(862,526.54)</u>	(18,607.02)	62.2808	1.3436	63.6243
Balance @ 09/30/2019	<u>10,444</u>	<u>609,535.99</u>	<u>14,231.23</u>			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	<u>10,444</u>	<u>609,535.99</u>	<u>14,231.23</u>		<u>1.3626</u>	
Reverse Fuel Balance	XXXXXXXXXXXX	(609,535.99)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	618,904.69	XXXXXXXXXXXX			
Total @ 10/01/2019 Avg Price	<u>10,444</u>	<u>618,904.69</u>	<u>14,231.23</u>			

Weighted Avg Cost/BBL by Location

58.3623

1.3626

Weighted Avg Cost/BBL @ Avg Cost

59.2594

1.3626





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

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER BARREL EXCL LT	LT	TOTAL
Balance at 08/31/2019	5,245.5	220,310.0	482,438.5	6,754.1			
Less: Est'd Inven Addition	0.0	0.0	0.0	0.0			
Purchases: Estimate		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Actual		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfers out: Estimate		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Actual		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfers in: Estimate	(6,915.9)	(290,467.0)	(634,735.8)	(7,668.3)			
Actual	6,487.1	272,459.0	614,060.4	7,308.6			
Consumed: Estimate	5,467.2	229,623.0	496,933.7	6,439.3			
Actual	(5,688.1)	(238,902.0)	(517,014.4)	(6,699.6)			
Balance Per G/L 08/31/2019	4,595.8	193,023	441,682.39	6,134.04			
Purchases		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfer in	8,337.3	350,167.0	734,837.3	9,244.4	88.1384		
Consumed	(7,740.1)	(325,086)	(706,216.69)	(9,966.18)	91.2408	1.2876	92.5284
Balance @ 09/30/2019	5,193.0	218,104	470,302.97	5,412.27	90.5656		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 09/30/2019	5,193.0	218,104	470,302.97	5,412.27	90.5656		
Reverse Fuel Balance		XXXXXXXXXXXXXXXXXX	(470,302.97)	XXXXXXXXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXXXXXXXX	461,911.10	XXXXXXXXXXXXXXXXXX			
Total @ 10/01/2019 Avg Price	5,193.0	218,104	461,911.10	5,412.27	88.9496		

Weighted Avg Cost/BBL by Location

90.5656 1.0422

Weighted Avg Cost/BBL @ Avg Cost

88.9496 1.0422

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

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 08/31/2019	1640.6	68,905	149,288	1,805			
Less: Est'd Inven Addition	0.0	0	0	0			
Purchases: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers out: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate	-187.2	-7862.0	-17410.0	-183.2			
Actual	187.2	7862.0	17474.2	183.6			
Consumed: Estimate	384.5	16151.0	34952.8	488.2			
Actual	-304.7	-12796.0	-27692.2	-368.7			
Balance Per G/L 08/31/2019	1720.5	72,260	156,612.97	1,924.59	91.0289		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	0.0	0.0	0.0	0.0	#DIV/0!		
Consumed	-52.2	-2193.0	-4764.1	-57.4	91.2408	1.1000	92.3408
Balance @ 09/30/2019	1,668.3	70,067	151,848.90	1,867.15	91.0222		
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	1,668.3	70,067	151,848.90	1,867.15	91.0222		
Reverse Fuel Balance		XXXXXXXXXXXX	XXXXXXXXXXXX -151,848.90	XXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXX	XXXXXXXXXXXX 148,391.25	XXXXXXXXXXXX			
Total @ 10/01/2019 Avg Price	1,668.3	70,067	148,391.25	1,867.15	88.9496		
Weighted Avg Cost/BBL by Location			91.0222	1.1192			
Weighted Avg Cost/BBL @ Avg Cost			88.9496	1.1192			

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

KEAHOLE DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 08/31/2019	1,983.2	83,293	181,491.91	6,095.28			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(190.0)	(7,980)	(17,992.46)	(540.25)			
Actual	0.0	0	0.00	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate		(442)	0.00	(29.92)			
Actual		(24,396)	(53,461.36)	(1,674.69)			
Consumed: Estimate	419.9	17,636	38,951.54	896.96			
Actual	(302.1)	(12,688)	(28,023.20)	(645.29)	92.7628		
Balance Per G/L 08/31/2019	1,319.6	55,423	120,966.43	4,102.09	91.6693		
Purchases	939.6	39,464	85,628.44	2,671.71	0.0000		
Estimated Purchases	380.0	15,960	34,629.79	1,080.49			
Transfer in	(427.3)	(17,948)	(42,510.01)	(1,215.08)	99.48		
Consumed	(203.3)	(8,537)	(19,412.20)	(624.73)	95.5034	3.0735	98.5769
Balance @ 09/30/2019	2,008.6	84,362	179,302.45	6,014.49	89.2665		
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	2,008.6	84,362	179,302.45	6,014.49	89.2665		
Reverse Fuel Balance		xxxxxxxxxxxx	(179,302.45)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price		xxxxxxxxxxxx	182,544.86	xxxxxxxxxxxx			
Total @ 10/01/2019 Avg Price	2,008.6	84,362	182,544.86	6,014.49	90.8808		

Weighted Avg Cost/BBL by Location

89.2665 2.9943

Weighted Avg Cost/BBL @ Avg Cost

90.8808 2.9943

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

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 08/31/2019	1,133.2	47,593.0	104,403.8	3,197.82			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Purchases: Estimate		(15,821)	(35,671.51)	(892.30)			
Actual		15,821.0	35,671.5	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate	(5.7)	(241)	0.00	0.00			
Actual	8.6	361	0.00	892.30			
Consumed: Estimate	322.7	13,555	29,938.09	1,065.52			
Actual	(253.4)	(10,642)	(23,504.33)	(703.61)			
Balance Per G/L 08/31/2019	1,205.4	50,626	110,837.60	3,559.73	91.9523		
ULSD Purchases	188.1	7,902	14,145.64	445.67	75.1856		
Estimated Purchases	190.0	7,980	14,285.27	450.07			
Transfer in	xxxxxxxxxxxx	(6)	0.00	0.00	#DIV/0!		
Consumed	(103.5)	(4,347)	(9,884.60)	(292.08)	95.5034	2.8220	98.3254
Balance @ 09/30/2019	1,479.9	62,155	129,383.91	4,163.40	87.4286		
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	1,479.9	62,155	129,383.91	4,163.40	87.4286		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(129,383.91)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	134,492.73	xxxxxxxxxxxx			
Total @ 10/01/2019 Avg Price	1,479.9	62,155	134,492.73	4,163.40	90.8808		

Weighted Avg Cost/BBL by Location

87.4286 2.8133

Weighted Avg Cost/BBL @ Avg Cost

90.8808 2.8133

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

KANOELEHUA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP		
Balance at 08/31/2019	997.0	41,874.0	107,455.3	1,327.4		
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			x	x	x	
Actual			x	x	x	
Transfers in: Estimate		0	0.00	0.00		
Actual		0	0.00	0.00		
Consumed: Estimate	182.6	7,668	967.04	26.58		
Actual	(122.3)	(5,137)	(11,345.77)	(120.52)		
Balance Per G/L 08/31/2019	1,057.3	44,405	97,076.59	1,233.46		
ULSD Purchases	0	0	0.00	0.00	#DIV/0!	
Estimated Purchases	0	-	-	-		
Transfer in	0	0	0.00	0.00		
Consumed	(90.1)	(3,786)	(967.04)	(26.58)	95.50337435	1.3314
Balance @ 09/30/2019	967.1	40,619	96,109.55	1,206.88		
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	967.1	40,619	96,109.55	1,206.88		
Reverse Fuel Balance	x	x	(96,109.55)	x		
Fuel Balance @ Avg Price	x	x	87,892.53	x		
Total @ 10/01/2019 Avg Price	967.1	40,619	87,892.53	1,206.88		

Weighted Avg Cost/BBL by Location

99.3772 1.2479

Weighted Avg Cost/BBL @ Avg Cost

90.8808 1.2479

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

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 08/31/2019	137.8	5,786	12,642.87	
Less: Est'd Inven Addition	0.0	XXXXXXXXX	XXXXXXXXXX	
Purchases: Estimate	0.0	0	0.00	
Actual	0.0	0	0.00	
Consumed: Estimate	23.4	981	2,166.67	
Actual	(17.4)	(730)	(1,612.30)	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Balance Per G/L 08/31/2019	143.74	6,037	13,197.24	91.8145
Purchases	0.0	0	0.00	0.0000
Transfer out	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Consumed	0.0	0	0.00	#DIV/0!
Balance @ 09/30/2019	143.7	6,037	13,197.24	91.8145
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 09/30/2019	143.7	6,037	13,197.24	
Reverse Fuel Balance	XXXXXXXXXX	XXXXXXXXXX	(13,197.24)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXX	XXXXXXXXXX	13,063.03	xxxx
Total @ 10/01/2019 Avg Price	143.7	6,037	13,063.03	90.8808



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

		<u>October 1, 2019</u> <u>(¢/kWh)</u>	<u>Floor Rates</u> <u>(¢/kWh)</u>
PGV (25 MW)	- on peak	14.417	6.560
PGV (22 MW)	- off peak	12.931	5.430
WAILUKU HYDRO	- on peak	14.417	7.240
	off peak	12.931	5.970
Other: (<100 KW)	Sch Q Rate	13.450	
		<u>October 1, 2019</u> <u>(¢/kWh)</u>	<u>Floor Rates</u> <u>(¢/kWh)</u>
HEP		12.108	
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**  
October 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 (October 1, 2019)	91,996 mwh
6	Adjustment (Line 4 / Line 5)	(1.204) ¢/kwh

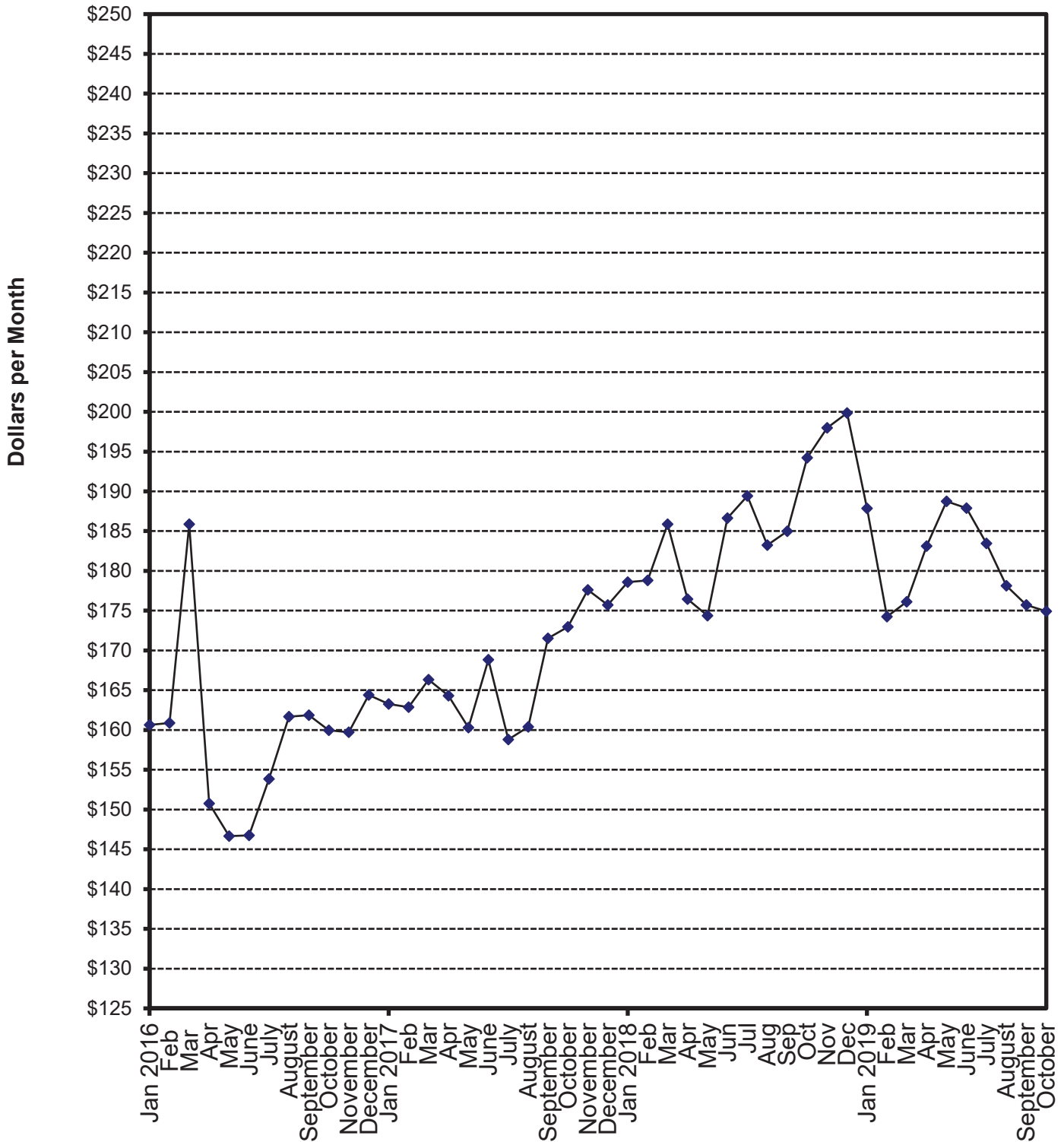
**HAWAII ELECTRIC LIGHT COMPANY, INC.**  
2019 Cumulative Reconciliation Balance

<u>Month</u>	(1) <u>YTD FOA</u> <u>Reconciliation</u>	<u>Qtr</u>	(2) <u>FOA Rec</u> <u>Adjust</u> <u>Variance</u>	(3) <u>FOA Rec</u> <u>Less</u> <u>Variance</u>	(4) <u>Try to</u> <u>Collect</u>	(5) <u>Actual</u> <u>Collect</u>	(6) <u>Month-end</u> <u>Cumulative</u> <u>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)	(1,025,775)	2,033,254
September					(1,009,300)		
October					(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 BILL (\$)</u>	
	<u>RESIDENTIAL &amp; COMMERCIAL</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
October 1, 2019	14.692	174.93	209.40

**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
10/1/2019-10/31/2019	PURCHASED POWER ADJUSTMENT CLAUSE	2.0069 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			
	09/01/19	10/01/19	09/01/19	10/01/19	Difference	
<b>Base Rates</b>	effective date:	2/1/2019	2/1/2019			
Base Fuel Energy Charge	¢/kwh	-	-	\$0.00	\$0.00	\$0.00
Non-Fuel Energy Charge	¢/kwh			\$71.85	\$71.85	\$0.00
First 300 kWh per month	¢/kwh	13.0289	13.0289	\$39.09	\$39.09	\$0.00
Next 700 kWh per month	¢/kwh	16.3807	16.3807	\$32.76	\$32.76	\$0.00
Customer Charge	\$	11.50	11.50	\$11.50	\$11.50	\$0.00
<b>Total Base Charges</b>				\$83.35	\$83.35	\$0.00
<b>Interim Rate Increase 2016 TY</b>	% on base	0.0000%	0.0000%	\$0.00	\$0.00	\$0.00
<b>RBA Rate Adjustment</b>	¢/kwh	0.9069	0.9069	\$4.53	\$4.53	\$0.00
<b>Purchased Power Adj. Clause</b>	¢/kwh	2.0060	2.0069	\$10.03	\$10.03	\$0.00
<b>PBF Surcharge</b>	¢/kwh	0.4775	0.4775	\$2.39	\$2.39	\$0.00
<b>DSM Adjustment</b>	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>SolarSaver Adjustment</b>	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>Energy Cost Recovery</b>	¢/kwh	14.8450	14.6920	\$74.23	\$73.46	-\$0.77
<b>Green Infrastructure Fee</b>	\$	1.1700	1.1700	\$1.17	\$1.17	\$0.00
<b>Avg Residential Bill at 500 kwh</b>				\$175.70	\$174.93	
				Increase (Decrease -)		-\$0.77
				% Change		-0.44%

	Rate		Charge (\$) at 600 Kwh			
	09/01/19	10/01/19	09/01/19	10/01/19	Difference	
<b>Base Rates</b>	effective date:	2/1/2019	2/1/2019			
Base Fuel/Energy Charge	¢/kwh	-	-	\$0.00	\$0.00	\$0.00
Non-Fuel Energy Charge	¢/kwh			\$88.23	\$88.23	\$0.00
First 300 kWh per month	¢/kwh	13.0289	13.0289	\$39.09	\$39.09	\$0.00
Next 700 kWh per month	¢/kwh	16.3807	16.3807	\$49.14	\$49.14	\$0.00
Customer Charge	\$	11.50	11.50	\$11.50	\$11.50	\$0.00
<b>Total Base Charges</b>				\$99.73	\$99.73	\$0.00
<b>Interim Rate Increase 2016 TY</b>	% on base	0.0000%	0.0000%	\$0.00	\$0.00	\$0.00
<b>RBA Rate Adjustment</b>	¢/kwh	0.9069	0.9069	\$5.44	\$5.44	\$0.00
<b>Purchased Power Adj. Clause</b>	¢/kwh	2.0060	2.0069	\$12.04	\$12.04	\$0.00
<b>PBF Surcharge</b>	¢/kwh	0.4775	0.4775	\$2.87	\$2.87	\$0.00
<b>DSM Adjustment</b>	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>SolarSaver Adjustment</b>	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>Energy Cost Recovery</b>	¢/kwh	14.8450	14.6920	\$89.07	\$88.15	-\$0.92
<b>Green Infrastructure Fee</b>	\$	1.1700	1.1700	\$1.17	\$1.17	\$0.00
<b>Avg Residential Bill at 600 kwh</b>				\$210.32	\$209.40	
				Increase (Decrease -)		-\$0.92
				% Change		-0.44%