



SHARON M. SUZUKI
President

March 27, 2019

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

PUBLIC UTILITIES
COMMISSION

Dear Commissioners:

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

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

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

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

The attached sheets set forth the energy cost recovery factor in cents per kWh for each rate schedule that is applicable for pro rata use beginning April 1, 2019.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST RECOVERY FACTOR

	<u>EFFECTIVE DATES</u>		
	<u>3/01/19</u>	<u>4/01/19</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	1,260.51	1,439.13	178.62
Dispersed Generation Energy, ¢/kWh	15.454	15.245	(0.21)
Purchased Energy, ¢/kWh	12.899	13.309	0.41
<u>Residential Schedule "R"</u>			
Energy Cost Recovery - ¢/kWh	14.976	16.469	1.49
<u>Others - "G,J,P,F"</u>			
Energy Cost Recovery - ¢/kWh	14.976	16.469	1.49
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$176.10	\$183.12	\$7.02
600 KWH Consumption - \$/Bill	\$210.75	\$219.17	\$8.42

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

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

<u>Line</u>		
1	Effective Date	April 1, 2019
2	Supersedes Factors of	March 1, 2019

GENERATION COMPONENT

<u>CENTRAL STATION WITH WIND/HYDRO COMPONENT</u>						
FUEL PRICES, ¢/mmbtu						
3						
4	Hill Industrial		1,133.03			
5	Puna Industrial		1,144.86			
6	Keahole Diesel		1,739.84			
6a	Keahole ULSD		1,636.48			
7	Waimea ULSD Diesel		1,636.86			
8	Hilo Diesel		1,711.44			
8a	Hilo (Kanoelehua) ULSD Diesel ¹		1,602.31			
9	Puna Diesel		1,713.05			
10	Wind		0.00			
11	Hydro		0.00			
BTU MIX, %						
12						
13	Hill Industrial		32.842			
14	Puna Industrial		6.063			
15	Keahole Diesel		41.879			
15a	Keahole ULSD		0.337			
16	Waimea ULSD Diesel		0.417			
17	Hilo Diesel		5.326			
17a	Hilo (Kanoelehua) ULSD Diesel ¹		0.386			
18	Puna Diesel		9.299			
19	Wind		0.000			
20	Hydro		3.451			
			100.000			
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmbtu		1,439.13			
22	% Input to System kWh Mix		54.519			
EFFICIENCY FACTOR, mmbtu/kWh						
	(A)	(B)	(C)	(D)		
		Eff Factor	Percent of	Weighted		
	<u>Fuel Type</u>	<u>mmbtu/kwh</u>	<u>Centrl Stn +</u>	<u>Eff Factor</u>		
			<u>Wind/Hydro</u>			
23	Industrial	0.014569	38.905	0.005668		
24	Diesel	0.010480	57.644	0.006041		
25	Other	0.012395	3.451	0.000428		
	(Lines 23, 2					
26	Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)]			0.0121370		
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26))			9.52261		
28	BASE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/mmbtu			0.00		
29	Base % Input to Sys kWh Mix			0.00		
30	Efficiency Factor, mmbtu/kwh			0.000000		
31	WEIGHTED BASE CENTRAL STATION + WIND/HYDRO GENERATION COST ¢/kWh (Lines (28 x 29 x 30))			0.00000		
32	COST LESS BASE (Line 27 - 31)			9.52261		
33	Revenue Tax Req Multiplier			1.0975		
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33))			10.45106		
				<u>DG ENERGY COMPONENT</u>		
				35	COMPOSITE COST OF DG ENERGY, ¢/kWh	15.245
				36	% Input to System kWh Mix	0.122
				37	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36)	0.01857
				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)	0.01857
				42	Loss Factor	1.072
				43	Revenue Tax Req Multiplier	1.0975
				44	DG FACTOR, ¢/kWh (Line 41 x 42 x 43)	0.02185
				SUMMARY OF		
				TOTAL GENERATION FACTOR, ¢/kWh		
				45	Cntrl Stn+Wind/Hydro (line 34)	10.45106
				46	DG (line 44)	0.02185
				47	TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)	10.47291

¹ Hilo ULSD same location as Kanoelehua ULSD

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

INDUSTRIAL FUEL COSTS:

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	71.3811	71.3811
Land Transportation Cost - \$/BBL	--	0.7454
	<hr/>	
Industrial Costs For Filing - \$/BBL	71.3811	72.1265
Conversion Factors - mmbtu/BBL	6.30	6.30
	<hr/>	
Industrial Costs For Filing - ¢/mmbtu	1,133.03	1,144.86
	<hr/> <hr/>	

DIESEL FUEL COSTS:

	<u>KEAHOLE</u>	<u>PUNA CT-3</u>	<u>HILO</u>
Average Diesel Fuel Cost - \$/BBL	99.2285	99.2285	99.2285
Land Transportation Cost - \$/BBL	2.7264	1.1561	1.0620
	<hr/>		
Diesel Costs For Filing - \$/BBL	101.9549	100.3846	100.2905
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
	<hr/>		
Diesel Costs For Filing - ¢/mmbtu	1,739.84	1,713.05	1,711.44
	<hr/> <hr/>		

ULSD FUEL COSTS:

	<u>KEAHOLE</u>	<u>WAIMEA</u>	<u>HILO</u>	<u>DISPERSED GENERATION</u>
Average ULSD Fuel Cost - \$/BBL	90.4791	90.4791	90.4791	90.4791
Land Transportation Cost - \$/BBL	3.2912	3.3130	1.3331	-
	<hr/>			
ULSD Costs For Filing - \$/BBL	93.7703	93.7922	91.8122	90.4791
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
	<hr/>			
ULSD Costs For Filing - ¢/mmbtu	1,636.48	1,636.86	1,602.31	1,579.04
	<hr/> <hr/>			

Dispersed Generation, cents per kWh

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

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

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

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

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

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

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 02/28/2019	6,456	210,864.69	7,746.08			
Less: Est'd Inventory Addition	0	0.00	0.00			
Purchases: Estimate	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers out: Estimate	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate	(4,721)	(133,008.14)	(5,645.09)			
Actual	5,386	130,241.41	2,488.33			
Consumed: Estimate	5,772	357,989.07	8,793.63			
Actual	(5,099)	(316,248.49)	(7,482.87)			
Balance Per G/L 02/28/2019	7,794	249,838.54	5,900.08			
Purchases	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	4,434	339,599	5,301.91			
Consumed	(4,593)	(288,105.79)	(5,510.80)	62.7271	1.1998	63.9270
Balance @ 03/31/2019	7,635	301,331.27	5,691.19			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	7,635	301,331.27	5,691.19		0.7454	
Reverse Fuel Balance	XXXXXXXXXXXX	(301,331.27)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	544,994.53	XXXXXXXXXXXX			
Total @ 04/01/2019 Avg Price	7,635	544,994.53	5,691.19			

Weighted Avg Cost/BBL by Location

39.4671

0.7454

Weighted Avg Cost/BBL @ Avg Cost

71.3811

0.7454

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

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER BARREL EXCL LT	BARREL LT	TOTAL
Balance at 02/28/2019	5,581.6	234,427.2	472,158.6	8,413.3			
Less: Est'd Inven Addition	(4,227.9)	(177,570.2)	(357,265.4)	(4,687.9)			
Purchases: Estimate		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Actual		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfers out: Estimate		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Actual		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfers in: Estimate	(4,842.2)	(203,372.0)	(405,222.2)	(5,369.0)			
Actual	5,530.1	232,266.0	511,158.8	6,279.5			
Consumed: Estimate	7,396.1	310,636.0	610,766.8	4,436.8			
Actual	(5,436.5)	(228,334.0)	(448,946.1)	(3,261.3)			
Balance Per G/L 02/28/2019	4,001.3	168,053	382,650.47	5,811.35			
Purchases		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer in	4,771.8	200,414.0	435,797.6	5,290.9	91.3285		
Consumed	(2,732.8)	(114,776)	(225,559.19)	(4,119.15)	82.5389	1.5073	84.0462
Balance @ 03/31/2019	6,040.3	253,691	592,888.92	6,983.13	98.1562		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 03/31/2019	6,040.3	253,691	592,888.92	6,983.13	98.1562		
Reverse Fuel Balance		XXXXXXXXXXXXXXXXXXXX	(592,888.92)	XXXXXXXXXXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXXXXXXXXXX	599,366.25	XXXXXXXXXXXXXXXXXXXX			
Total @ 04/01/2019 Avg Price	6,040.3	253,691	599,366.25	6,983.13	99.2285		

Weighted Avg Cost/BBL by Location

98.1562 1.1561

Weighted Avg Cost/BBL @ Avg Cost

99.2285 1.1561

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

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 02/28/2019	1575.8	66,182	129,771	1,716			
Less: Est'd Inven Addition	0.0	0	0	0			
Purchases: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers out: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate	-378.9	-15915.0	-31950.0	-370.8			
Actual	378.9	15915.0	34126.2	370.0			
Consumed: Estimate	559.0	23479.0	46164.0	537.4			
Actual	-458.0	-19236.0	-37821.5	-440.3			
Balance Per G/L 02/28/2019	1676.8	70,425	140,290.04	1,812.48	83.6661		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	376.0	15793.0	34624.2	370.0	0.0000		
Consumed	-91.0	-3822.0	-7511.0	-99.1	82.5389	1.0891	83.6280
Balance @ 03/31/2019	1,961.8	82,396	167,403.17	2,083.37	85.3310		
Inven From Offsite/Transfers	0.0	0.0	0.0	0.0			
Est'd Inventory Addition	0.0	0.0	0.0	0.0			
Fuel Balance @ Avg Price	1,961.8	82,396	167,403.17	2,083.37	85.3310		
Reverse Fuel Balance		XXXXXXXXXXXX	XXXXXXXXXXXX -167,403.17	XXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXX	XXXXXXXXXXXX 194,667.46	XXXXXXXXXXXX			
Total @ 04/01/2019 Avg Price	1,961.8	82,396	194,667.46	2,083.37	99.2285		
Weighted Avg Cost/BBL by Location			85.3310	1.0620			
Weighted Avg Cost/BBL @ Avg Cost			99.2285	1.0620			

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

KEAHOLE DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 02/28/2019	2,202.1	92,490	197,150.45	7,243.55			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(379.4)	(15,933)	(33,459.30)	(1,078.67)			
Actual	189.4	7,953	16,978.04	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Transfers in: Estimate		(26)	0.00	(1.76)			
Actual		(87)	0.00	538.42			
Consumed: Estimate	98.7	4,146	9,238.50	314.47			
Actual	(66.1)	(2,776)	(6,185.74)	(210.55)	93.5883		
Balance Per G/L 02/28/2019	2,042.1	85,767	183,721.96	6,805.45	89.9684		
Purchases	0.0	0	0.00	0.00	0.0000		
Estimated Purchases	190.0	7,980	16,678.20	540.25			
Transfer in	(0.9)	(37)	0.00	(2.50)	0.00		
Consumed	(73.3)	(3,078)	(6,721.81)	(241.06)	91.7206	3.2893	95.0100
Balance @ 03/31/2019	2,157.9	90,632	193,678.34	7,102.13	89.7530		
Inventory From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ Avg Price	2,157.9	90,632	193,678.34	7,102.13	89.7530		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(193,678.34)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	195,245.30	xxxxxxxxxxxx			
Total @ 04/01/2019 Avg Price	2,157.9	90,632	195,245.30	7,102.13	90.4791		

Weighted Avg Cost/BBL by Location

89.7530 3.2912

Weighted Avg Cost/BBL @ Avg Cost

90.4791 3.2912

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

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 02/28/2019	1,442.6	60,588.0	129,923.3	4,790.51			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Purchases: Estimate		(7,980)	(16,758.00)	(450.07)			
Actual		7,948.0	17,086.4	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate	16.8	705	0.00	0.00			
Actual	(16.5)	(693)	0.00	448.27			
Consumed: Estimate	311.6	13,089	29,166.13	1,031.97			
Actual	(218.5)	(9,179)	(20,453.50)	(723.69)			
Balance Per G/L 02/28/2019	1,535.2	64,478	138,964.36	5,096.98	90.5193		
ULSD Purchases	0.0	0	0.00	0.00	#DIV/0!		
Estimated Purchases	-	0	0.00	0.00			
Transfer in	xxxxxxxxxxxx	128	0.00	0.00	#DIV/0!		
Consumed	(94.5)	(3,971)	(8,671.97)	(313.97)	91.7206	3.3208	95.0415
Balance @ 03/31/2019	1,443.7	60,635	130,292.40	4,783.01	90.2495		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ Avg Price	1,443.7	60,635	130,292.40	4,783.01	90.2495		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(130,292.40)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	130,623.83	xxxxxxxxxxxx			
Total @ 04/01/2019 Avg Price	1,443.7	60,635	130,623.83	4,783.01	90.4791		

Weighted Avg Cost/BBL by Location

90.2495 3.3130

Weighted Avg Cost/BBL @ Avg Cost

90.4791 3.3130

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

KANOELEHUA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP		
Balance at 02/28/2019	1,343.4	56,424.0	130,681.3	1,541.4		
Less: Est'd Inventory Addition	0.0	0	0.00	0.00		
Purchases: Estimate	0.0	0	0.00	0.00		
Actual	0.0	0	0.00	0.00		
Transfers out: Estimate			x	x		x
Actual			x	x		x
Transfers in: Estimate		0	0.00	0.00		
Actual		0	0.00	0.00		
Consumed: Estimate	118.9	4,994	967.04	26.58		
Actual	(90.7)	(3,808)	(10,457.32)	272.20		
Balance Per G/L 02/28/2019	1,371.7	57,610	121,191.03	1,840.19		
ULSD Purchases	0	0	0.00	0.00	#DIV/0!	
Estimated Purchases	190	-	-	-		
Transfer in	0	0	0.00	0.00		
Consumed	(61.8)	(2,595)	(967.04)	(26.58)	91.7206484	1.1474
Balance @ 03/31/2019	1,499.9	62,995	136,902.19	1,999.54		
Inventory From Offsite/Transfers	0.0	0	0.00	0.00		
Est'd Inventory Addition	0.0	0	0.00	0.00		
Fuel Balance @ Avg Price	1,499.9	62,995	136,902.19	1,999.54		
Reverse Fuel Balance	x	x	(136,902.19)	x		
Fuel Balance @ Avg Price	x	x	135,707.89	x		
Total @ 04/01/2019 Avg Price	1,499.9	62,995	135,707.89	1,999.54		

Weighted Avg Cost/BBL by Location

91.2754 1.3331

Weighted Avg Cost/BBL @ Avg Cost

90.4791 1.3331

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

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 02/28/2019	120.8	5,072	10,836.97	
Less: Est'd Inven Addition	0.0	XXXXXXXXXX	XXXXXXXXXX	
Purchases: Estimate	0.0	0	0.00	
Actual	0.0	0	0.00	
Consumed: Estimate	9.8	410	913.60	
Actual	(9.6)	(404)	(102.80)	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Balance Per G/L 02/28/2019	120.90	5,078	11,647.77	96.3384
Purchases	0.0	0	0.00	0.0000
Transfer out	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Consumed	(3.5)	(146)	(318.84)	91.7206
Balance @ 03/31/2019	117.4	4,932	11,328.93	96.4751
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 03/31/2019	117.4	4,932	11,328.93	
Reverse Fuel Balance	XXXXXXXXXX	XXXXXXXXXX	(11,328.93)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXX	XXXXXXXXXX	10,624.83	xxxx
Total @ 04/01/2019 Avg Price	117.4	4,932	10,624.83	90.4791

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

		<u>April 1, 2019</u> <u>(¢/kWh)</u>	<u>Floor Rates</u> <u>(¢/kWh)</u>
PGV (25 MW)	- on peak	15.876	6.560
PGV (22 MW)	- off peak	14.501	5.430
WAILUKU HYDRO	- on peak	15.876	7.240
	off peak	14.501	5.970
Other: (<100 KW)	Sch Q Rate	14.950	
		<u>April 1, 2019</u> <u>(¢/kWh)</u>	<u>Floor Rates</u> <u>(¢/kWh)</u>
HEP		13.314	
PGV Addtl 5 MW	- on peak	13.0500	0.0000
	- off peak	13.0500	0.0000
PGV Addtl 8 MW	- on peak	9.9500	0.0000
	- off peak	6.6400	0.0000

Hawaii Electric Light Company, Inc.
Energy Cost Reconciliation Adjustment
April 1, 2019

<u>Line No.</u>	<u>Description</u>	<u>Amount</u>
1	Amount to be (returned) or collected	(\$2,598,900)
2	Monthly Amount ($\frac{1}{3}$ x Line 1)	(\$866,300)
3	Revenue Tax Divisor	0.91115
4	Total (Line 2 / Line 3)	(\$950,776)
5	Estimated MWh Sales (April 1, 2019)	85,860 mwh
6	Adjustment (Line 4 / Line 5)	(1.107) ¢/kwh

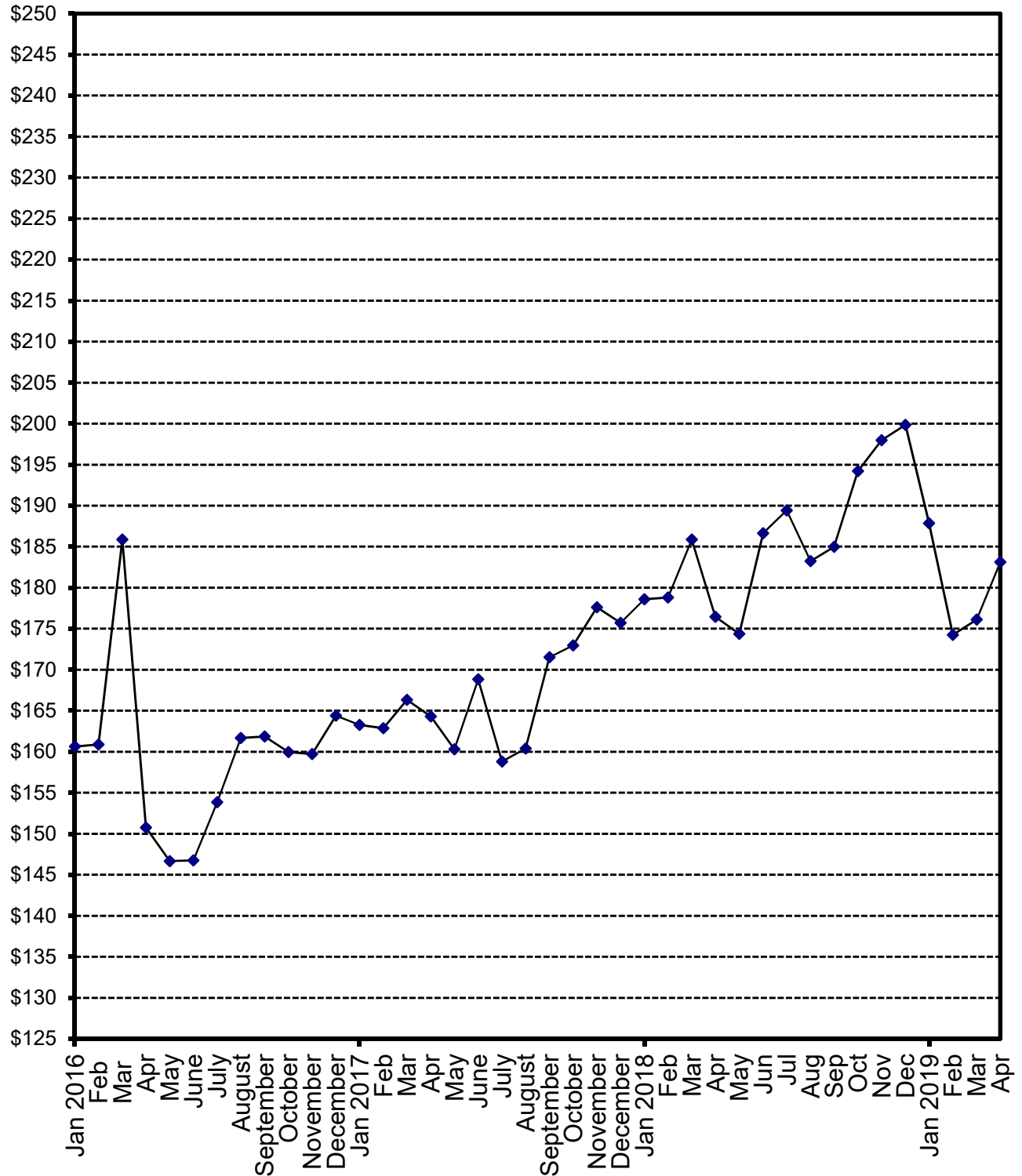
HAWAII ELECTRIC LIGHT COMPANY, INC.
2019 Cumulative Reconciliation Balance

<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)		
April					(866,300)		

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 & 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	

**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

**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			
	03/01/19	04/01/19	03/01/19	04/01/19	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	1.0006	1.0006	\$5.00	\$5.00	\$0.00
Purchased Power Adj. Clause	¢/kwh	1.8372	1.8247	\$9.19	\$9.12	-\$0.07
PBF Surcharge	¢/kwh	0.4658	0.4658	\$2.33	\$2.33	\$0.00
DSM Adjustment	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
SolarSaver Adjustment	¢/kwh	0.0000	(0.0768)	\$0.00	-\$0.38	-\$0.38
Energy Cost Recovery	¢/kwh	14.9760	16.4690	\$74.88	\$82.35	\$7.47
Green Infrastructure Fee	\$	1.3500	1.3500	\$1.35	\$1.35	\$0.00
Avg Residential Bill at 500 kwh				\$176.10	\$183.12	

Increase (Decrease -)	\$7.02
% Change	3.99%

	Rate		Charge (\$) at 600 Kwh			
	03/01/19	04/01/19	03/01/19	04/01/19	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	1.0006	1.0006	\$6.00	\$6.00	\$0.00
Purchased Power Adj. Clause	¢/kwh	1.8372	1.8247	\$11.02	\$10.95	-\$0.07
PBF Surcharge	¢/kwh	0.4658	0.4658	\$2.79	\$2.79	\$0.00
DSM Adjustment	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
SolarSaver Adjustment	¢/kwh	0.0000	(0.0768)	\$0.00	-\$0.46	-\$0.46
Energy Cost Recovery	¢/kwh	14.9760	16.4690	\$89.86	\$98.81	\$8.95
Green Infrastructure Fee	\$	1.3500	1.3500	\$1.35	\$1.35	\$0.00
Avg Residential Bill at 600 kwh				\$210.75	\$219.17	

Increase (Decrease -)	\$8.42
% Change	4.00%