



SHARON M. SUZUKI  
President

June 26, 2019

FILED

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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 July 2019

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") Energy Cost Recovery factor for July 2019 is 16.450 cents per kilowatt-hour ("kWh"), a decrease of 0.87 cents per kWh from last month.

Hawai'i Electric Light's fuel composite cost of generation decreased 10.23 cents per million BTU to 1,470.21 cents per million BTU. The composite cost of distributed generation increased 0.19 cents per kWh to 15.669 cents per kWh. The composite cost of purchased energy decreased 1.45 cents per kWh to 12.157 cents per kWh.

A residential customer consuming 500 kWh of electricity will be paying \$183.46, a decrease of \$4.43 compared to rates effective June 1, 2019. The decrease in the typical residential bill is due to the decrease of (-\$4.34) of the Energy Cost Recovery Factor, increase in the Purchased Power Adjustment rate (+\$0.03), increase in the Public Benefit Fund Surcharge (+\$0.06), and the decrease in the Green Infrastructure Fee (-\$0.18).

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 July 1, 2019.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

## HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST RECOVERY FACTOR

	<u>EFFECTIVE DATES</u>		
	<u>6/01/19</u>	<u>7/01/19</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	1,480.44	1,470.21	(10.23)
Dispersed Generation Energy, ¢/kWh	15.476	15.669	0.19
Purchased Energy, ¢/kWh	13.606	12.157	(1.45)
<u>Residential Schedule "R"</u>			
Energy Cost Recovery - ¢/kWh	17.318	16.450	(0.87)
<u>Others - "G,J,P,F"</u>			
Energy Cost Recovery - ¢/kWh	17.318	16.450	(0.87)
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$187.89	\$183.46	(\$4.43)
600 KWH Consumption - \$/Bill	\$224.90	\$219.63	(\$5.27)

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

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

<u>Line</u>		
1	Effective Date	July 1, 2019
2	Supersedes Factors of	June 1, 2019

**GENERATION COMPONENT**

<b><u>CENTRAL STATION WITH WIND/HYDRO COMPONENT</u></b>						
FUEL PRICES, ¢/mmbtu						
3						
4	Hill Industrial		1,119.73			
5	Puna Industrial		1,144.02			
6	Keahole Diesel		1,765.34			
6a	Keahole ULSD		1,659.03			
7	Waimea ULSD Diesel		1,680.53			
8	Hilo Diesel		1,745.51			
8a	Hilo (Kanoelehua) ULSD Diesel <sup>1</sup>		1,640.26			
9	Puna Diesel		1,743.47			
10	Wind		0.00			
11	Hydro		0.00			
BTU MIX, %						
12	Hill Industrial		31.944			
14	Puna Industrial		5.842			
15	Keahole Diesel		43.650			
15a	Keahole ULSD		0.300			
16	Waimea ULSD Diesel		0.421			
17	Hilo Diesel		4.297			
17a	Hilo (Kanoelehua) ULSD Diesel <sup>1</sup>		0.377			
18	Puna Diesel		10.432			
19	Wind		0.000			
20	Hydro		2.737			
			100.000			
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmbtu		1,470.21			
22	% Input to System kWh Mix		54.613			
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	37.786	0.005505		
24	Diesel	0.010480	59.477	0.006233		
25	Other	0.012395	2.737	0.000339		
	(Lines 23, 2		100.0000			
26	Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)]			0.0120770		
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26))			9.69693		
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)			9.69693		
33	Revenue Tax Req Multiplier			1.0975		
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33))			10.64238		
				<b><u>DG ENERGY COMPONENT</u></b>		
				35	COMPOSITE COST OF DG ENERGY, ¢/kWh	15.669
				36	% Input to System kWh Mix	0.117
				37	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36)	0.01833
				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)	0.01833
				42	Loss Factor	1.072
				43	Revenue Tax Req Multiplier	1.0975
				44	DG FACTOR, ¢/kWh (Line 41 x 42 x 43)	0.02157
				<b>SUMMARY OF</b>		
				TOTAL GENERATION FACTOR, ¢/kWh		
				45	Cntrl Stn+Wind/Hydro (line 34)	10.64238
				46	DG (line 44)	0.02157
				47	TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)	10.66395

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

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

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

<u>Line</u>	<u>PURCHASED ENERGY COMPONENT</u>			<u>Line</u>	<u>SYSTEM COMPOSITE</u>
	PURCHASED ENERGY PRICE, ¢/kWh -- Fossil				
48	HEP		11.590		
	PURCHASED ENERGY PRICE, ¢/kWh -- Renewable				
49	PGV	On Peak	15.401		
50	PGV	Off Peak	13.837		
51	PGV - Add'l 5 MW	On Peak	13.050		
52	PGV - Add'l 5 MW	Off Peak	13.050		
53	PGV - Add'l 8 MW	On Peak	9.950		
54	PGV - Add'l 8 MW	Off Peak	6.640		
55	Wailuku Hydro	On Peak	15.401		
56	Wailuku Hydro	Off Peak	13.837		
57	Hawi Renewable Dev.	On Peak	15.401		
58	Hawi Renewable Dev.	Off Peak	13.837		
59	Tawhiri (Pakini Nui)	On Peak	12.050		
60	Tawhiri (Pakini Nui)	Off Peak	12.080		
61					
62	Small Hydro (>100 KW)	On Peak	15.401		
63	Small Hydro (>100 KW)	Off Peak	13.837		
64	Sch Q Hydro (<100 KW)		14.390		
65	FIT		23.800		
	PURCHASED ENERGY KWH MIX, %, Fossil				
66	HEP		65.199		
	PURCHASED ENERGY KWH MIX, %, Renewable				
67	PGV	On Peak	0.000		
68	PGV	Off Peak	0.000		
69	PGV - Addtl	On Peak	0.000		
70	PGV - Addtl	Off Peak	0.000		
71	PGV - Add'l 8 MW	On Peak	0.000		
72	PGV - Add'l 8 MW	Off Peak	0.000		
73	Wailuku Hydro	On Peak	1.995		
74	Wailuku Hydro	Off Peak	1.294		
75	Hawi Renewable Dev.	On Peak	5.311		
76	Hawi Renewable Dev.	Off Peak	2.570		
77	Tawhiri (Pakini Nui)	On Peak	14.140		
78	Tawhiri (Pakini Nui)	Off Peak	8.546		
79					
80	Small Hydro (>100 KW)	On Peak	0.000	93A	Ocean Cargo Insurance Exp, \$000 \$8.2 HELCO-R-503, page 1, line 4
81	Small Hydro (>100 KW)	Off Peak	0.000	93B	Revenue Tax Adjustment 1.097514
82	Sch Q Hydro (<100 KW)		0.222	93C	Non-Adj Revenues, \$000 \$9.0
83	FIT		0.723	93D	2016 TY Sales, MWh 1,040,692 HELCO-WP-302z
			100.000	93E	Non-Adj Revenues, ¢/kWh 0.00086
83a	Comp. Cost Purchased Energy Fossil, ¢/kWh		11.5900		
83b	Comp. Cost Purchased Energy Renewable, ¢/kWh		13.2181		
84	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh		12.157		
85	% Input to System kWh Mix		45.270		
86	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (Lines (88 x 89))		5.50347		
87	BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh		0.000		
88	Base % Input to Sys kWh Mix		0.00		
89	WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (Lines (91 x 92))		0.00000		
90	COST LESS BASE (Lines (90 - 93))		5.50347		
91	Loss Factor		1.072		
92	Revenue Tax *		1.0975		
93	PURCHASED ENERGY FACTOR, ¢/kWh (Lines (94 x 95 x 96))		6.47494		
				94	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (Lines (47 + 93)) 17.13889
				95	Not Used 0.000
				96	Non-Adjustable Component 0.00086
				97	ECA Reconciliation Adjustment (0.690)
				98	ECA FACTOR, ¢/kWh (Lines (94 + 95+ 96 + 97)) 16.450

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

**INDUSTRIAL FUEL COSTS:**

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	70.5429	70.5429
Land Transportation Cost - \$/BBL	--	1.5307
Industrial Costs For Filing - \$/BBL	70.5429	72.0736
Conversion Factors - mmbtu/BBL	6.30	6.30
Industrial Costs For Filing - ¢/mmbtu	<u>1,119.73</u>	<u>1,144.02</u>

**DIESEL FUEL COSTS:**

	<u>KEAHOLE</u>	<u>PUNA CT-3</u>	<u>HILO</u>
Average Diesel Fuel Cost - \$/BBL	101.0365	101.0365	101.0365
Land Transportation Cost - \$/BBL	2.4124	1.1309	1.2507
Diesel Costs For Filing - \$/BBL	103.4488	102.1674	102.2871
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
Diesel Costs For Filing - ¢/mmbtu	<u>1,765.34</u>	<u>1,743.47</u>	<u>1,745.51</u>

**ULSD FUEL COSTS:**

	<u>KEAHOLE</u>	<u>WAIMEA</u>	<u>HILO</u>	<u>DISPERSED GENERATION</u>
Average ULSD Fuel Cost - \$/BBL	92.9968	92.9968	92.9968	92.9968
Land Transportation Cost - \$/BBL	2.0654	3.2977	0.9904	-
ULSD Costs For Filing - \$/BBL	95.0622	96.2945	93.9871	92.9968
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
ULSD Costs For Filing - ¢/mmbtu	<u>1,659.03</u>	<u>1,680.53</u>	<u>1,640.26</u>	<u>1,622.98</u>

**Dispersed Generation, cents per kWh**

	<u>COMPOSITE COST OF DISP. GEN.</u>
BBIs Fuel:	193.7641
\$/BBI Inv Cost:	<u>92.9968</u>
Fuel \$ (Prod Sim Consumption x Unit Cost)	18,019.43
Net kWh (from Prod Sim)	115,000
cents/kWh:	15.669

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

	SHIPMAN INDUSTRIAL		HILL INDUSTRIAL		COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 05/31/2019	0	0.00	39,179	2,885,221.51			
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	(18,304)	(1,310,234.92)			
Actual	0	0.00	21,773	1,560,766.53			
Consumed: Estimate	0	0.00	18,638	1,403,363.12			
Actual	0	0.00	(21,743)	(1,637,156.58)			
Balance Per G/L 05/31/2019	<u>0</u>	<u>0.00</u>	<u>39,543</u>	<u>2,901,959.66</u>			
Purchases	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0.00	31,531	2,150,127.29			
Consumed	<u>0</u>	<u>0.00</u>	<u>(30,365)</u>	<u>(2,198,003.93)</u>	106.5901	0.0000	106.5901
Balance @ 06/30/2019	0	0.00	40,709	2,854,083.02			
Inv From Offsite/Transfers	0	0.00	0	0.00			
Est'd Inventory Addition	0	0.00	0	0.00			
Fuel Balance @ 06/30/2019	<u>0</u>	<u>0.00</u>	<u>40,709</u>	<u>2,854,083.02</u>			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxx	(2,854,083.02)			
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxx	2,871,729.73			
Total @ 07/01/2019 Avg Price	<u>0</u>	<u>0.00</u>	<u>40,709</u>	<u>2,871,729.73</u>			

Weighted Avg Cost/BBL by Location #DIV/0! 70.1094

Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 70.5429

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

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 05/31/2019	7,144	519,481.44	9,031.95			
Less: Est'd Inventory Addition	0	0.00	0.00			
Purchases: Estimate	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers out: Estimate	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate	(12,940)	(955,296.75)	(17,020.11)			
	12,210	920,019.64	16,761.00			
Consumed: Estimate	13,225	995,786.96	19,129.96			
	(9,825)	(739,781.24)	(13,202.48)			
Balance Per G/L 05/31/2019	9,814	740,210.05	14,700.32			
Purchases	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	3,438	238,484	4,522.04			
Consumed	(3,988)	(288,675.77)	(5,042.03)	72.3861	1.2643	73.6504
Balance @ 06/30/2019	9,264	690,018.28	14,180.33			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	9,264	690,018.28	14,180.33		1.5307	
Reverse Fuel Balance	XXXXXXXXXXXX	(690,018.28)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	653,509.16	XXXXXXXXXXXX			
Total @ 07/01/2019 Avg Price	9,264	653,509.16	14,180.33			

Weighted Avg Cost/BBL by Location

74.4838

1.5307

Weighted Avg Cost/BBL @ Avg Cost

70.5429

1.5307

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

KEAHOLE CT

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COVER EXCLUD LT	BARREL LT	TOTAL
Balance at 05/31/2019	50,915.5	2,138,449.0	5,556,737.2	95,661.0			
Less: Est'd Inventory Addition	0.0	0.0	0.0	0.0			
Purchases: Estimate	0.0	0.0	0.0	0.0			
	0.0	0.0	0.0	0.0			
Transfers out: Estimate		xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
		xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfers in: Estimate	(36,171.7)	(1,519,210.0)	(3,580,896.0)	(102,850.5)			
	34,344.7	1,442,478.0	3,374,064.1	95,334.87			
Consumed: Estimate	40,502.3	1,701,098.0	3,990,767.8	111,976.80			
	(39,038.5)	(1,639,617.0)	(3,846,533.7)	(107,929.7)	98.5318		
Balance Per G/L 05/31/2019	50,552.3	2,123,198	5,494,139.43	92,192.46	108.6822		
Purchases	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfer out	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfer in	29,765.8	1,250,162.0	2,863,613.0	84,636.0	96.2049		
Consumed	(31,726.6)	(1,332,517.0)	(3,401,256.0)	(59,607.93)	107.2052	1.8788	109.0840
Balance @ 06/30/2019	48,591.5	2,040,843	4,956,496.42	117,220.50	102.0034		
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	48,591.5	2,040,843	4,956,496.42	117,220.50	102.0034		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	(4,956,496.4)	xxxxxxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	4,909,513.4	xxxxxxxxxxxxxxxx			
Total @ 07/01/2019 Avg Price	48,591.5	2,040,843	4,909,513.37	117,220.50	101.0365		

Weighted Avg Cost/BBL by Location 102.0034 2.4124

Weighted Avg Cost/BBL @ Avg Cost 101.0365 2.4124





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

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 05/31/2019	1993.3	83,720	214,545	2,098			
Less: Est'd Inven Addition	0.0	0	0	0			
Purchases: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers out: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate	-376.0	-15792.0	-36874.3	-185.0			
	375.7	15778.0	36698.7	184.1			
Consumed: Estimate	316.6	13296.0	31192.4	327.4			
	-292.1	-12268.0	-28780.7	120.9			
Balance Per G/L 05/31/2019	2017.5	84,734	216,780.71	2,545.23	107.4514		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	190.8	8014.0	18228.7	186.7	#DIV/0!		
Consumed	-150.8	-6335.0	-16170.1	-158.7	107.2052	1.0524	108.2576
Balance @ 06/30/2019	2,057.5	86,413	218,839.26	2,573.22	106.3642		
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	2,057.5	86,413	218,839.26	2,573.22	106.3642		
Reverse Fuel Balance		XXXXXXXXXXXX	XXXXXXXXXXXX -218,839.26	XXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXX	XXXXXXXXXXXX 207,877.71	XXXXXXXXXXXX			
Total @ 07/01/2019 Avg Price	2,057.5	86,413	207,877.71	2,573.22	101.0365		
Weighted Avg Cost/BBL by Location			106.3642	1.2507			
Weighted Avg Cost/BBL @ Avg Cost			101.0365	1.2507			

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

KEAHOLE DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COBBER EXCLUD LT	BARREL LT	TOTAL
Balance at 05/31/2019	2,192.5	92,083	201,454.80	4,432.70			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(378.9)	(15,913)	(37,662.20)	(1,077.31)			
	377.1	15,839	37,486.23	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate		25	0.00	1.69			
		(92)	0.00	1,072.30			
Consumed: Estimate	62.0	2,604	5,705.86	201.51			
	(111.0)	(4,660)	(10,675.79)	(360.64)	96.2196		
Balance Per G/L 05/31/2019	2,140.1	89,886	196,308.90	4,270.25	91.7270		
Purchases	0.0	0	0.00	0.00	0.0000		
Estimated Purchases	190.0	7,980	18,912.60	540.25			
Transfer in	(1.0)	(41)	0.00	(2.78)	0.00		
Consumed	(69.7)	(2,927)	(6,401.00)	(140.90)	91.8490	2.0218	93.8708
Balance @ 06/30/2019	2,259.5	94,898	208,820.50	4,666.82	92.4199		
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	2,259.5	94,898	208,820.50	4,666.82	92.4199		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(208,820.50)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	210,123.95	xxxxxxxxxxxx			
Total @ 07/01/2019 Avg Price	2,259.5	94,898	210,123.95	4,666.82	92.9968		

Weighted Avg Cost/BBL by Location

92.4199 2.0654

Weighted Avg Cost/BBL @ Avg Cost

92.9968 2.0654

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

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 05/31/2019	1,092.3	45,877.0	98,085.4	3,600.58			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Purchases: Estimate		0	0.00	0.00			
Actual		0.0	0.0	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate	(5.3)	(223)	0.00	0.00			
Actual	3.5	147	0.00	0.00			
Consumed: Estimate	69.6	2,924	6,407.04	230.67			
Actual	(73.8)	(3,098)	(6,788.31)	(244.40)			
Balance Per G/L 05/31/2019	1,086.4	45,627	97,704.08	3,586.85	89.9373		
ULSD Purchases	0.0	0	0.00	0.00	#DIV/0!		
Estimated Purchases	-	0	0.00	0.00			
Transfer in	xxxxxxxxxxxx	57	0.00	0.00	#DIV/0!		
Consumed	(79.5)	(3,337)	(7,297.62)	(261.90)	91.8490	3.2963	95.1453
Balance @ 06/30/2019	1,008.3	42,347	90,406.46	3,324.95	89.6656		
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	1,008.3	42,347	90,406.46	3,324.95	89.6656		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(90,406.46)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	93,765.08	xxxxxxxxxxxx			
Total @ 07/01/2019 Avg Price	1,008.3	42,347	93,765.08	3,324.95	92.9968		

Weighted Avg Cost/BBL by Location

89.6656 3.2977

Weighted Avg Cost/BBL @ Avg Cost

92.9968 3.2977

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

KANOELEHUA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP		
Balance at 05/31/2019	1,261.9	53,000.0	118,290.8	1,446.0		
Less: Est'd Inventory Addition	0.0	0	0.00	0.00		
Purchases: Estimate	(190.0)	(7,980)	(18,912.60)	(185.93)		
	188.2	7,904	18,706.01	0.00		
Transfers out: Estimate			x	x	x	
			x	x	x	
Transfers in: Estimate		0	0.00	0.00		
		126	0.00	368.40		
Consumed: Estimate	38.8	1,630	967.04	26.58		
	(39.9)	(1,675)	(3,670.24)	(427.20)		
Balance Per G/L 05/31/2019	1,262.0	53,005	115,380.99	1,227.83		
ULSD Purchases	0	0	0.00	0.00	#DIV/0!	
Estimated Purchases	190	-	-	-		
Transfer in	0	0	0.00	0.00		
Consumed	(51.4)	(2,157)	(967.04)	(26.58)	91.849	1.1459
Balance @ 06/30/2019	1,400.7	58,828	133,326.55	1,387.18		
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	1,400.7	58,828	133,326.55	1,387.18		
Reverse Fuel Balance	x	x	(133,326.55)	x		
Fuel Balance @ Avg Price	x	x	130,257.45	x		
Total @ 07/01/2019 Avg Price	1,400.7	58,828	130,257.45	1,387.18		

Weighted Avg Cost/BBL by Location

95.1879 0.9904

Weighted Avg Cost/BBL @ Avg Cost

92.9968 0.9904

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

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 05/31/2019	147.0	6,174	13,277.52	
Less: Est'd Inven Addition	0.0	XXXXXXXXXX	XXXXXXXXXX	
Purchases: Estimate	0.0	0	0.00	
Actual	0.0	0	0.00	
Consumed: Estimate	1.7	72	157.77	
Actual	(5.6)	(235)	1,462.51	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Balance Per G/L 05/31/2019	143.12	6,011	14,897.80	104.0938
Purchases	0.0	0	0.00	0.0000
Transfer out	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Consumed	(4.2)	(175)	(382.70)	91.8490
Balance @ 06/30/2019	139.0	5,836	14,515.10	104.4609
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 06/30/2019	139.0	5,836	14,515.10	
Reverse Fuel Balance	XXXXXXXXXX	XXXXXXXXXX	(14,515.10)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXX	XXXXXXXXXX	12,922.12	xxxx
Total @ 07/01/2019 Avg Price	139.0	5,836	12,922.12	92.9968

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

TYPE OF OIL BURNED

<b>INDUSTRIAL *</b>	<u>Hill Industrial</u>		<u>Puna Industrial</u>	
	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax <sup>1</sup>	58.45	3.6822	58.45	3.6822
Ocean Transportation	47.47	2.8822	0.00	0.0000
Storage	31.16	2.1410	33.98	2.1410
Wharfage	6.43	0.3900	6.19	0.3900
Fees <sup>2</sup>	0.00	0.0000	0.00	0.0000
			<u>Hilo Diesel</u>	
			<u>¢/MBTU</u>	<u>\$/BBL</u>
<b>DIESEL *</b>				
Tax <sup>1</sup>	91.50	5.3613	91.50	5.3613
Ocean Transportation	49.18	2.8822	49.18	2.8822
Storage	28.34	1.6606	28.34	1.6606
Wharfage	6.66	0.3900	6.66	0.3900
Fees <sup>2</sup>	0.00	0.0000	0.00	0.0000
			<u>Waimea Diesel</u>	
			<u>¢/MBTU</u>	<u>\$/BBL</u>
			<u>Kona Diesel</u>	
			<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax <sup>1</sup>	91.50	5.3613	91.50	5.3613
Ocean Transportation	49.18	2.8822	49.18	2.8822
Storage	28.34	1.6606	28.34	1.6606
Wharfage	6.66	0.3900	6.66	0.3900
Fees <sup>2</sup>	0.00	0.0000	0.00	0.0000
			<u>CT3 Diesel</u>	
			<u>¢/MBTU</u>	<u>\$/BBL</u>
			<u>ULSD</u>	
<b>ULSD **</b>			<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax <sup>1</sup>	98.55	5.6471		
Ocean Transportation	0.00	0.0000		
Storage	0.00	0.0000		
Wharfage	0.00	0.0000		
Fees <sup>2</sup>	0.00	0.0000		

<sup>1</sup> Tax includes HGET, Hawaii Use Tax, Liquid Fuel Tax, LUST Tax and Environmental Response Tax.

<sup>2</sup> With the change in supplier to PAR some fees have been taken off the pricing sheet.

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

\* Land Transportation Costs are shown in Attachment 3, Sheet 1.

\*\* ULSD includes Waimea, Kanoelehua, and Keahole.

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

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

		<u>July 1, 2019</u> (¢/kWh)	<u>Floor Rates</u> (¢/kWh)
PGV (25 MW)	- on peak	15.401	6.560
PGV (22 MW)	- off peak	13.837	5.430
WAILUKU HYDRO	- on peak	15.401	7.240
	off peak	13.837	5.970
Other: (<100 KW)	Sch Q Rate	14.390	
		<u>July 1, 2019</u> (¢/kWh)	<u>Floor Rates</u> (¢/kWh)
HEP		11.590	
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**  
July 1, 2019

<u>Line No.</u>	<u>Description</u>	<u>Amount</u>
1	Amount to be (returned) or collected	(\$1,745,900)
2	Monthly Amount ( $\frac{1}{3}$ x Line 1)	(\$581,967)
3	Revenue Tax Divisor	0.91115
4	Total (Line 2 / Line 3)	(\$638,717)
5	Estimated MWh Sales (July 1, 2019)	92,540 mwh
6	Adjustment (Line 4 / Line 5)	(0.690) ¢/kwh

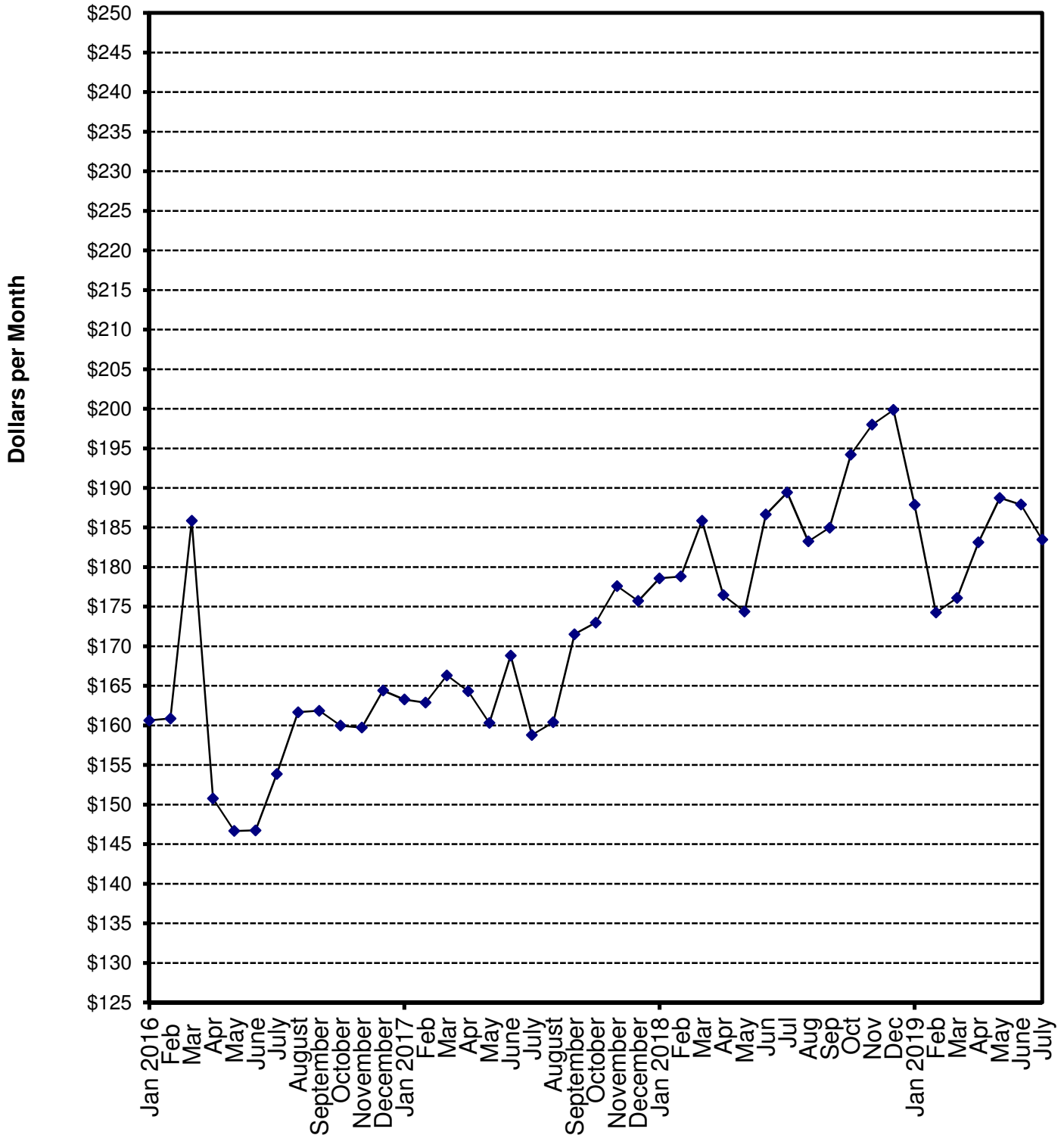
**HAWAII ELECTRIC LIGHT COMPANY, INC.**  
2019 Cumulative Reconciliation Balance

Month	(1) YTD FOA Reconciliation	Qtr	(2) FOA Rec Adjust Variance	(3) FOA Rec Less Variance	(4) Try to Collect	(5) Actual Collect	(6) Month-end Cumulative Balance
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)		
July					(581,967)		

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 &amp; COMMERCIAL @ 500 KWH</u>	<u>RESIDENTIAL BILL (\$) @ 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

**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
<b>10/1/2018</b>	<b>INTERIM RATE INCREASE 2016</b>	<b>0.0000 PERCENT ON BASE</b>
<b>10/1/2018</b>	<b>FINAL RATE INCREASE (TY 2016) 0.53% EFFECTIVE 10/01/18, DOCKET NO. 2015-0170</b>	
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
<b>05/01/2019</b>	<b>SOLARSAVER ADJUSTMENT</b>	<b>0.0000 CENTS/KWH</b>
06/01/2019-6/30/19	PURCHASED POWER ADJUSTMENT CLAUSE	1.9474 CENTS/KWH
<b>6/1/2019</b>	<b>RBA RATE ADJUSTMENT</b>	<b>0.9069 CENTS/KWH</b>
<b>7/01/2019-7/31/19</b>	<b>PURCHASED POWER ADJUSTMENT CLAUSE</b>	<b>1.9539 CENTS/KWH</b>
7/1/2019	GREEN INFRASTRUCTURE FEE	1.1700 DOLLARS/MONTH
7/1/2019	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.4775 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			
	06/01/19	07/01/19	06/01/19	07/01/19	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	1.9474	1.9539	\$9.74	\$9.77	\$0.03
<b>PBF Surcharge</b>	¢/kwh	0.4658	0.4775	\$2.33	\$2.39	\$0.06
<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	17.3180	16.4500	\$86.59	\$82.25	-\$4.34
<b>Green Infrastructure Fee</b>	\$	1.3500	1.1700	\$1.35	\$1.17	-\$0.18
<b>Avg Residential Bill at 500 kwh</b>				\$187.89	\$183.46	
				Increase (Decrease -)		-\$4.43
				% Change		-2.36%

	Rate		Charge (\$) at 600 Kwh			
	06/01/19	07/01/19	06/01/19	07/01/19	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	1.9474	1.9539	\$11.68	\$11.72	\$0.04
<b>PBF Surcharge</b>	¢/kwh	0.4658	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	17.3180	16.4500	\$103.91	\$98.70	-\$5.21
<b>Green Infrastructure Fee</b>	\$	1.3500	1.1700	\$1.35	\$1.17	-\$0.18
<b>Avg Residential Bill at 600 kwh</b>				\$224.98	\$219.63	
				Increase (Decrease -)		-\$5.35
				% Change		-2.38%