



SHARON M. SUZUKI
President

February 26, 2020

FILED

2020 FEB 26 P 3: 33

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 March 2020

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") Energy Cost Recovery factor for March 2020 is 17.424 cents per kilowatt-hour ("kWh"), a decrease of 0.12 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$188.72, a decrease of \$0.50 compared to rates effective February 1, 2020. The decrease in the residential bill is due to the decrease in the Energy Cost Recovery Factor (-\$0.62), partially offset by the increase in Purchased Power Adjustment Clause (+\$0.12).

Hawai'i Electric Light's fuel composite cost of generation increased 45.06 cents per million BTU to 1,358.39 cents per million BTU. The composite cost of distributed generation decreased 16.603 cents per kWh to 0 cents per kWh. The composite cost of purchased energy decreased 0.88 cents per kWh to 14.217 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 March 1, 2020.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST RECOVERY FACTOR

	<u>EFFECTIVE DATES</u>		
	<u>2/01/20</u>	<u>3/01/20</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	1,313.33	1,358.39	45.06
Dispersed Generation Energy, ¢/kWh	16.603	0.000	(16.60)
Purchased Energy, ¢/kWh	15.097	14.217	(0.88)
<u>Residential Schedule "R"</u>			
Energy Cost Recovery - ¢/kWh	17.547	17.424	(0.12)
<u>Others - "G,J,P,F"</u>			
Energy Cost Recovery - ¢/kWh	17.547	17.424	(0.12)
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$189.22	\$188.72	(\$0.50)
600 KWH Consumption - \$/Bill	\$226.49	\$225.90	(\$0.59)

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

ENERGY COST RECOVERY (ECR) FILING - March 1, 2020 (Page 1 of 2)

<u>Line</u>		
1	Effective Date	March 1, 2020
2	Supersedes Factors of	February 1, 2020

GENERATION COMPONENT

<u>CENTRAL STATION WITH WIND/HYDRO COMPONENT</u>			
FUEL PRICES, ¢/mmbtu			
3			
4	Hill Industrial		1,069.03
5	Puna Industrial		1,093.67
6	Keahole Diesel		1,601.90
6a	Keahole ULSD		1,682.66
7	Waimea ULSD Diesel		1,677.50
8	Hilo Diesel		1,574.35
8a	Hilo (Kanoelehua) ULSD Diesel ¹		1,651.33
9	Puna Diesel		1,579.28
10	Wind		0.00
11	Hydro		0.00
BTU MIX, %			
12			
13	Hill Industrial		34.245
14	Puna Industrial		6.305
15	Keahole Diesel		50.515
15a	Keahole ULSD		0.001
16	Waimea ULSD Diesel		0.434
17	Hilo Diesel		1.446
17a	Hilo (Kanoelehua) ULSD Diesel ¹		0.126
18	Puna Diesel		5.192
19	Wind		0.000
20	Hydro		1.736
			100.000
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmbtu		1,358.39
22	% Input to System kWh Mix		54.661
EFFICIENCY FACTOR, mmbtu/kWh			
	(A)	(B)	(C)
			(D)
			Percent of
			Centrl Stn +
			Wind/Hydro
			Weighted
	Fuel Type	Eff Factor	Eff Factor
		mmbtu/kwh	
23	Industrial	0.014389	40.550
24	Diesel	0.010580	57.714
25	Other	0.011999	1.7360
			0.0002
			100.0000
26	Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)]		0.0121490
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26))		9.02075
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)		9.02075
33	Revenue Tax Req Multiplier		1.0975
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33))		9.90027

<u>DG ENERGY COMPONENT</u>		
35	COMPOSITE COST OF DG ENERGY, ¢/kWh	0.000
36	% Input to System kWh Mix	0.000
37	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36)	0.00000
38	BASE DG ENERGY COMPOSITE COST	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)	0.00000
42	Loss Factor	1.072
43	Revenue Tax Req Multiplier	1.0975
44	DG FACTOR, ¢/kWh (Line 41 x 42 x 43)	0.00000

SUMMARY OF		
TOTAL GENERATION FACTOR, ¢/kWh		
45	Cntrl Stn+Wind/Hydro (line 34)	9.90027
46	DG (line 44)	0.00000
47	TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)	9.90027

¹ Hilo ULSD same location as Kanoelehua ULSD

Hawaii Electric Light Company, Inc.
FUEL OIL INVENTORY PRICES FOR March 1, 2020

INDUSTRIAL FUEL COSTS:

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	67.3491	67.3491
Land Transportation Cost - \$/BBL	--	1.5523
Industrial Costs For Filing - \$/BBL	67.3491	68.9014
Conversion Factors - mmbtu/BBL	6.30	6.30
Industrial Costs For Filing - ¢/mmbtu	1,069.03	1,093.67

DIESEL FUEL COSTS:

	KEAHOLE	PUNA CT-3	HILO
Average Diesel Fuel Cost - \$/BBL	91.1085	91.1085	91.1085
Land Transportation Cost - \$/BBL	2.7629	1.4374	1.1483
Diesel Costs For Filing - \$/BBL	93.8714	92.5459	92.2568
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
Diesel Costs For Filing - ¢/mmbtu	1,601.90	1,579.28	1,574.35

ULSD FUEL COSTS:

	KEAHOLE	WAIMEA	HILO	DISPERSED GENERATION
Average ULSD Fuel Cost - \$/BBL	93.1930	93.1930	93.1930	93.1930
Land Transportation Cost - \$/BBL	3.2234	2.9276	1.4281	-
ULSD Costs For Filing - \$/BBL	96.4165	96.1207	94.6211	93.1930
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
ULSD Costs For Filing - ¢/mmbtu	1,682.66	1,677.50	1,651.33	1,626.41

Dispersed Generation, cents per kWh

	COMPOSITE COST OF DISP. GEN.
BBIs Fuel:	15.1991
\$/BBI Inv Cost:	93.1930
Fuel \$ (Prod Sim Consumption x Unit Cost)	1,416.45
Net kWh (from Prod Sim)	0
cents/kWh:	#DIV/0!

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
February 2020

	SHIPMAN INDUSTRIAL		HILL INDUSTRIAL		COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 01/31/2020	0	0.00	41,881	2,502,067.58			
Less: Est'd Inventory Addn			0	0.00			
Purchases: Estimate	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxx	xxxxxxxxxxxxxxxxxxxx			
Actual	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfers out: Estimate	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxx	xxxxxxxxxxxxxxxxxxxx			
Actual	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfers in: Estimate	0	0.00	(47,802)	(2,835,856.74)			
Actual	0	0.00	48,194	2,864,875.40			
Consumed: Estimate	0	0.00	37,234	2,167,867.03			
Actual	0	0.00	(41,622)	(2,423,348.59)			
Balance Per G/L 01/31/2020	0	0.00	37,885	2,275,604.68			
Purchases	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0.00	22,932	1,522,861.39			
Consumed	0	0.00	(29,746)	(1,806,898.95)	106.5901	0.0000	106.5901
Balance @ 02/29/2020	0	0.00	31,071	1,991,567.12			
Inv From Offsite/Transfers	0	0.00	0	0.00			
Est'd Inventory Addition	0	0.00	0	0.00			
Fuel Balance @ 02/29/2020	0	0.00	31,071	1,991,567.12			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxx	(1,991,567.12)			
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxx	2,092,605.28			
Total @ 03/01/2020 Avg Price	0	0.00	31,071	2,092,605.28			

Weighted Avg Cost/BBL by Location #DIV/0! 64.0973

Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 67.3491

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
February 2020

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 01/31/2020	6,199	411,542.19	8,180.94			
Less: Est'd Inventory Addition	0	0.00	0.00			
Purchases: Estimate	XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Actual	XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfers out: Estimate	XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Actual	XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfers in: Estimate	(9,413)	(578,247.05)	(12,381.01)			
Actual	8,601	534,753.91	11,853.57			
Consumed: Estimate	11,592	674,918.48	18,145.51			
Actual	<u>(8,195)</u>	<u>(477,135.69)</u>	<u>(12,125.35)</u>			
Balance Per G/L 01/31/2020	<u>8,784</u>	<u>565,831.84</u>	<u>13,673.66</u>			
Purchases	XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer in	4,751	304,346	6,249.04			
Consumed	(4,675)	<u>(283,979.44)</u>	(6,169.69)	60.7443	1.3197	62.0640
Balance @ 02/29/2020	<u>8,860</u>	<u>586,198.27</u>	<u>13,753.01</u>			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	<u>8,860</u>	<u>586,198.27</u>	<u>13,753.01</u>		<u>1.5523</u>	
Reverse Fuel Balance	XXXXXXXXXXXX	(586,198.27)	XXXXXXXXXXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	596,713.42	XXXXXXXXXXXXXXXXXXXX			
Total @ 03/01/2020 Avg Price	<u>8,860</u>	<u>596,713.42</u>	<u>13,753.01</u>			
Weighted Avg Cost/BBL by Location		66.1623	1.5523			
Weighted Avg Cost/BBL @ Avg Cost		67.3491	1.5523			

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
February 2020

KEAHOLE DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCLUD LT	BARREL LT	TOTAL
Balance at 01/31/2020	39,843.4	1,673,422.0	3,512,017.6	117,917.3			
Less: Est'd Inventory Addition	0.0	0.0	0.0	0.0			
Purchases: Estimate	0.0	0.0	0.0	0.0			
Actual	0.0	0.0	0.0	0.0			
Transfers out: Estimate		xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Actual		xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfers in: Estimate	(53,331.8)	(2,239,935.0)	(4,798,332.8)	(151,643.6)			
Actual	57,453.1	2,413,030.0	5,243,427.4	163,400.92			
Consumed: Estimate	44,044.9	1,849,887.0	3,937,923.4	132,604.16			
Actual	(47,667.5)	(2,002,037.0)	(4,257,370.8)	(132,326.1)	89.3138		
Balance Per G/L 01/31/2020	40,342.1	1,694,367	3,637,664.77	129,952.73	90.1705		
Purchases	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfer out	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfer in	36,158.1	1,518,640.0	3,241,085.3	102,811.9	89.6365		
Consumed	(52,779.5)	(2,216,737.0)	(4,723,772.4)	(156,201.92)	89.5002	2.9595	92.4597
Balance @ 02/29/2020	27,710.7	1,163,850	2,525,329.41	76,562.73	91.1319		
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	27,710.7	1,163,850	2,525,329.41	76,562.73	91.1319		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	(2,525,329.4)	xxxxxxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	2,524,681.1	xxxxxxxxxxxxxxxx			
Total @ 03/01/2020 Avg Price	27,710.7	1,163,850	2,524,681.13	76,562.73	91.1085		

Weighted Avg Cost/BBL by Location

91.1319

2.7629

Weighted Avg Cost/BBL @ Avg Cost

91.1085

2.7629

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
February 2020

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 01/31/2020	4,530.9	190,298.0	404,588.6	5,612.2			
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	(3,175.0)	(133,352.0)	(295,383.0)	(3,520.5)			
Actual	2,295.7	96,418.0	229,179.6	2,721.1			
Consumed: Estimate	3,213.9	134,982.0	287,341.2	3,946.1			
Actual	(4,146.4)	(174,147.0)	(380,550.6)	(3,907.2)			
Balance Per G/L 01/31/2020	2,719.0	114,199	245,175.74	4,851.83			
Purchases		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfer in	5,752.3	241,596.0	518,478.1	6,378.1	90.1343		
Consumed	(4,763.1)	(200,050)	(426,298.06)	(5,899.83)	89.5002	1.2387	90.7389
Balance @ 02/29/2020	3,708.2	155,745	337,355.82	5,330.14	90.9753		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 02/29/2020	3,708.2	155,745	337,355.82	5,330.14	90.9753		
Reverse Fuel Balance		XXXXXXXXXXXXXXXXXX	(337,355.82)	XXXXXXXXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXXXXXXXX	337,849.78	XXXXXXXXXXXXXXXXXX			
Total @ 03/01/2020 Avg Price	3,708.2	155,745	337,849.78	5,330.14	91.1085		

Weighted Avg Cost/BBL by Location 90.9753 1.4374

Weighted Avg Cost/BBL @ Avg Cost 91.1085 1.4374

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
February 2020

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 01/31/2020	1571.1	65,988	136,285	1,563			
Less: Est'd Inven Addition	0.0	0	0	0			
Purchases: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers out: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate	0.9	36.0	0.0	0.0			
Actual	191.6	8048.0	17612.1	0.0			
Consumed: Estimate	49.0	2057.0	4378.8	52.8			
Actual	-43.9	-1842.0	1212.2	358.1			
Balance Per G/L 01/31/2020	1768.7	74,287	159,488.00	1,973.57	90.1705		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX		
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX		
Transfer in	-2.7	-113.0	0.0	0.0	0.0000		
Consumed	-354.0	-14869.0	-31685.2	-352.1	89.5002	0.9946	90.4948
Balance @ 02/29/2020	1,412.0	59,305	127,802.79	1,621.46	90.5104		
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	1,412.0	59,305	127,802.79	1,621.46	90.5104		
Reverse Fuel Balance		XXXXXXXXXXXX	XXXXXXXXXXXX -127,802.79	XXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXX	XXXXXXXXXXXX 128,647.35	XXXXXXXXXXXX			
Total @ 03/01/2020 Avg Price	1,412.0	59,305	128,647.35	1,621.46	91.1085		
Weighted Avg Cost/BBL by Location			90.5104	1.1483			
Weighted Avg Cost/BBL @ Avg Cost			91.1085	1.1483			

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
February 2020

KEAHOLE ULSD

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 01/31/2020	2,225.0	93,449	205,687.87	7,031.30			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(379.0)	(15,918)	(36,183.45)	(1,077.65)			
Actual	189.0	7,938	18,043.99	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Transfers in: Estimate		76	0.00	5.15			
Actual		20	0.00	537.40			
Consumed: Estimate	228.2	9,583	21,007.64	758.78			
Actual	(205.5)	(8,632)	(18,922.88)	(619.47)	92.0715		
Balance Per G/L 01/31/2020	2,059.9	86,516	189,633.17	6,635.51	92.0592		
Purchases	0.0	0	0.00	0.00	0.0000		
Estimated Purchases	0.0	0	0.00	0.00			
Transfer in	3.9	164	0.00	11.10	0.00		
Consumed	(93.1)	(3,909)	(8,641.73)	(294.12)	92.8505	3.1602	96.0106
Balance @ 02/29/2020	1,970.7	82,771	180,991.44	6,352.49	91.8394		
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	1,970.7	82,771	180,991.44	6,352.49	91.8394		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(180,991.44)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	183,659.09	xxxxxxxxxxxx			
Total @ 03/01/2020 Avg Price	1,970.7	82,771	183,659.09	6,352.49	93.1930		

Weighted Avg Cost/BBL by Location

91.8394 3.2234

Weighted Avg Cost/BBL @ Avg Cost

93.1930 3.2234

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
February 2020

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 01/31/2020	997.1	41,880.0	91,690.9	2,918.39			
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	1.7	72	0.00	0.00			
Actual	1.8	76	0.00	0.00			
Consumed: Estimate	177.8	7,467	16,368.99	520.85			
Actual	(146.8)	(6,166)	(13,516.97)	(430.10)			
Balance Per G/L 01/31/2020	1,031.6	43,329	94,542.96	3,009.13	91.6431		
ULSD Purchases	0.0	0	0.00	0.00	#DIV/0!		
Estimated Purchases	-	0	0.00	0.00			
Transfer in	xxxxxxxxxxxx	(158)	0.00	0.00	#DIV/0!		
Consumed	(112.1)	(4,707)	(10,405.89)	(328.00)	92.8505	2.9267	95.7772
Balance @ 02/29/2020	915.8	38,464	84,137.08	2,681.13	91.8718		
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	915.8	38,464	84,137.08	2,681.13	91.8718		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(84,137.08)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	85,347.08	xxxxxxxxxxxx			
Total @ 03/01/2020 Avg Price	915.8	38,464	85,347.08	2,681.13	93.1930		

Weighted Avg Cost/BBL by Location

91.8718 2.9276

Weighted Avg Cost/BBL @ Avg Cost

93.1930 2.9276

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
February 2020

KANOELEHUA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP		
Balance at 01/31/2020	758.9	31,875.0	72,415.0	848.9		
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	184.56		
Consumed: Estimate	42.8	1,798	967.04	26.58		
Actual	(43.5)	(1,827)	(4,005.11)	(47.41)		
Balance Per G/L 01/31/2020	758.2	31,846	69,376.95	1,012.60		
ULSD Purchases	0	0	0.00	0.00	#DIV/0!	
Estimated Purchases	0	-	-	-		
Transfer in	0	0	0.00	0.00		
Consumed	(67.8)	(2,847)	(967.04)	(26.58)	92.85047278	1.1185
Balance @ 02/29/2020	690.5	28,999	68,409.91	986.02		
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	690.5	28,999	68,409.91	986.02		
Reverse Fuel Balance	x	x	(68,409.91)	x		
Fuel Balance @ Avg Price	x	x	64,345.36	x		
Total @ 03/01/2020 Avg Price	690.5	28,999	64,345.36	986.02		
Weighted Avg Cost/BBL by Location			99.0798	1.4281		
Weighted Avg Cost/BBL @ Avg Cost			93.1930	1.4281		

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
February 2020

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 01/31/2020	111.9	4,698	10,234.32	
Less: Est'd Inven Addition	0.0	XXXXXXXXXX	XXXXXXXXXX	
Purchases: Estimate	0.0	0	0.00	
Actual	0.0	0	0.00	
Consumed: Estimate	5.3	222	486.66	
Actual	(4.8)	(200)	(438.44)	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Balance Per G/L 01/31/2020	112.38	4,720	10,282.54	91.4972
Purchases	0.0	0	0.00	0.0000
Transfer out	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Consumed	(10.8)	(453)	(1,001.46)	92.8505
Balance @ 02/29/2020	101.6	4,267	9,281.08	91.3535
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 02/29/2020	101.6	4,267	9,281.08	
Reverse Fuel Balance	XXXXXXXXXX	XXXXXXXXXX	(9,281.08)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXX	XXXXXXXXXX	9,467.97	xxxx
Total @ 03/01/2020 Avg Price	101.6	4,267	9,467.97	93.1930

Hawaii Electric Light Company, Inc.
PURCHASED POWER PRICES FOR March 1, 2020

		<u>March 1, 2020</u> <u>(¢/kWh)</u>	<u>Floor Rates</u> <u>(¢/kWh)</u>
PGV (25 MW)	- on peak	15.265	6.560
PGV (22 MW)	- off peak	14.289	5.430
WAILUKU HYDRO	- on peak	15.265	7.240
	off peak	14.289	5.970
Other: (<100 KW)	Sch Q Rate	14.490	
		<u>March 1, 2020</u> <u>(¢/kWh)</u>	<u>Floor Rates</u> <u>(¢/kWh)</u>
HEP		14.364	
PGV Addtl 5 MW	- on peak	13.250	0.0000
	- off peak	13.250	0.0000
PGV Addtl 8 MW	- on peak	10.100	0.0000
	- off peak	6.740	0.0000

Hawaii Electric Light Company, Inc.
Energy Cost Reconciliation Adjustment
March 1, 2020

<u>Line No.</u>	<u>Description</u>	<u>Amount</u>
1	Amount to be (returned) or collected	(\$141,300)
2	Monthly Amount ($\frac{1}{3}$ x Line 1)	(\$47,100)
3	Revenue Tax Divisor	0.91115
4	Total (Line 2 / Line 3)	(\$51,693)
5	Estimated MWh Sales (March 1, 2020)	84,760 mwh
6	Adjustment (Line 4 / Line 5)	(0.061) ¢/kwh

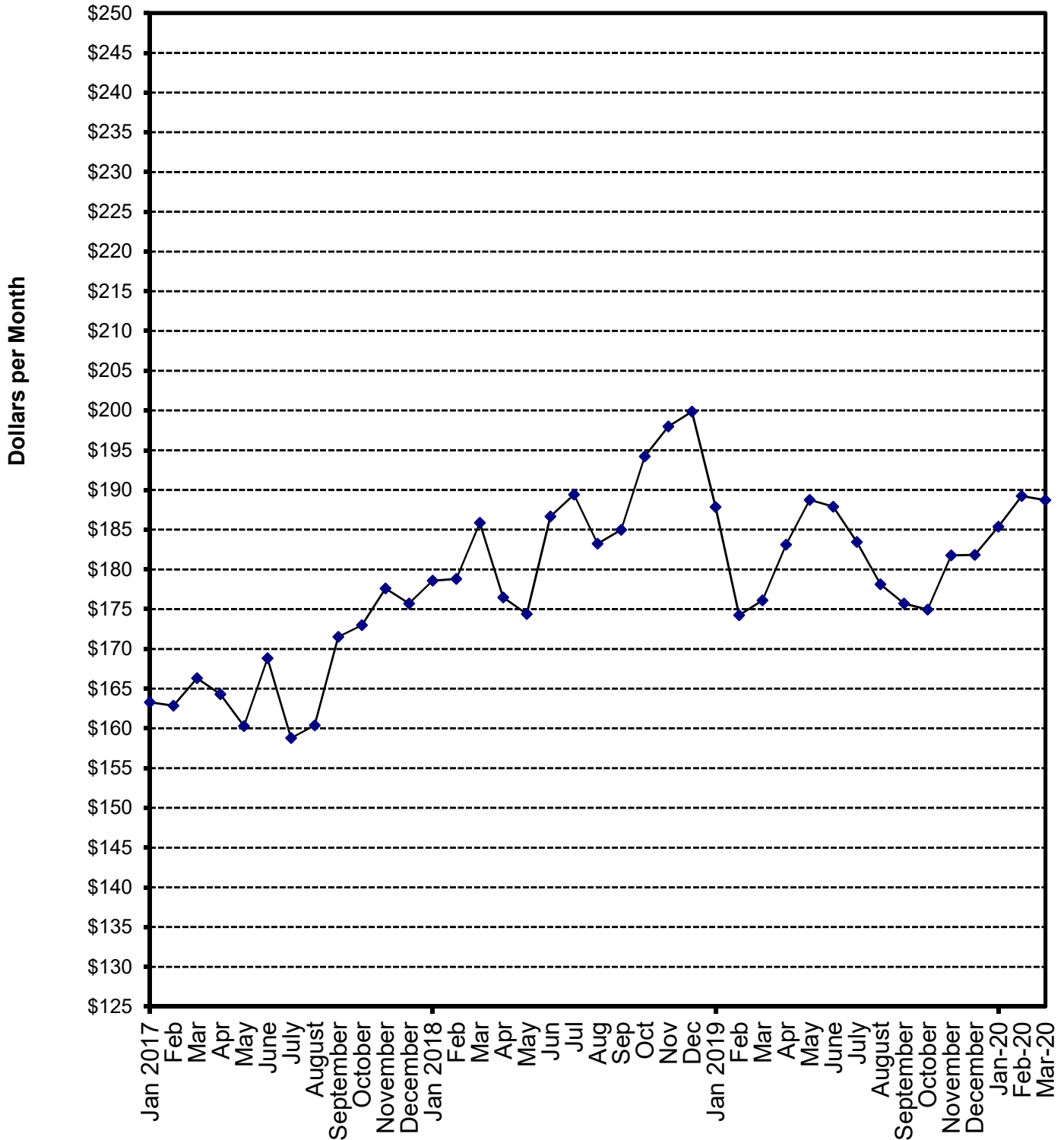
HAWAII ELECTRIC LIGHT COMPANY, INC.
2020 Cumulative Reconciliation Balance

<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 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)	(1,026,151)	1,007,103
October					(1,009,300)	(1,007,209)	(106)
November	1,927,900	[3]	(37,599)	1,965,499	(642,633)	(651,308)	1,314,085
December 19					(642,633)	(646,001)	668,084
January 20					(642,633)	(673,144)	(5,060)
February	141,300	[4]	(9,952)	151,252	(47,100)		
March					(47,100)		

NOTES:

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

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



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

<u>EFFECTIVE DATE</u>	<u>FUEL FACTOR</u> <u>CENTS / KWH</u>		
	<u>RESIDENTIAL & COMMERCIAL</u>	<u>RESIDENTIAL BILL (\$)</u> <u>@ 500 KWH</u>	<u>@ 600 KWH</u>
January 1, 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
November 1, 2019	16.302	181.76	217.59
December 1, 2019	16.288	181.82	217.67
January 1, 2020	16.768	185.37	221.88
February 1, 2020	17.547	189.22	226.49
March 1, 2020	17.424	188.72	225.90

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

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
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
6/1/2019-12/31/2019	RBA RATE ADJUSTMENT	0.9069 CENTS/KWH
7/01/2019-7/31/19	PURCHASED POWER ADJUSTMENT CLAUSE	1.9539 CENTS/KWH
7/1/2019-12/31/2019	GREEN INFRASTRUCTURE FEE	1.1700 DOLLARS/MONTH
7/1/2019-12/31/2019	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
11/1/2019-11/30/2019	PURCHASED POWER ADJUSTMENT CLAUSE	1.7616 CENTS/KWH
12/1/2019-12/31/2019	PURCHASED POWER ADJUSTMENT CLAUSE	1.7884 CENTS/KWH
1/1/2020-1/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE	1.7730 CENTS/KWH
1/1/2020	GREEN INFRASTRUCTURE FEE	1.2500 DOLLARS/MONTH
1/1/2020	RBA RATE ADJUSTMENT	0.1852 CENTS/KWH
1/1/2020	INTERIM RATE ADJUSTMENT 2019	4.0900 PERCENT ON BASE
1/1/2020	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.7437 CENTS/KWH
2/1/2020- 2/29/2020	PURCHASED POWER ADJUSTMENT CLAUSE	1.7631 CENTS/KWH
3/1/2020- 3/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE	1.7883 CENTS/KWH

**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			
	2/01/20	3/01/20	2/01/20	3/01/20	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 Adjustment 2019 TY	% on base	4.0900%	4.0900%	\$3.41	\$3.41	\$0.00
RBA Rate Adjustment	¢/kwh	0.1852	0.1852	\$0.93	\$0.93	\$0.00
Purchased Power Adj. Clause	¢/kwh	1.7631	1.7883	\$8.82	\$8.94	\$0.12
PBF Surcharge	¢/kwh	0.7437	0.7437	\$3.72	\$3.72	\$0.00
DSM Adjustment	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
SolarSaver Adjustment	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
Energy Cost Recovery	¢/kwh	17.5470	17.4240	\$87.74	\$87.12	-\$0.62
Green Infrastructure Fee	\$	1.2500	1.2500	\$1.25	\$1.25	\$0.00
Avg Residential Bill at 500 kwh				\$189.22	\$188.72	

Increase (Decrease -)	-\$0.50
% Change	-0.26%

	Rate		Charge (\$) at 600 Kwh			
	2/01/20	3/01/20	2/01/20	3/01/20	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 Adjustment 2019 TY	% on base	4.0900%	4.0900%	\$4.08	\$4.08	\$0.00
RBA Rate Adjustment	¢/kwh	0.1852	0.1852	\$1.11	\$1.11	\$0.00
Purchased Power Adj. Clause	¢/kwh	1.7631	1.7883	\$10.58	\$10.73	\$0.15
PBF Surcharge	¢/kwh	0.7437	0.7437	\$4.46	\$4.46	\$0.00
DSM Adjustment	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
SolarSaver Adjustment	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
Energy Cost Recovery	¢/kwh	17.5470	17.4240	\$105.28	\$104.54	-\$0.74
Green Infrastructure Fee	\$	1.2500	1.2500	\$1.25	\$1.25	\$0.00
Avg Residential Bill at 600 kwh				\$226.49	\$225.90	

Increase (Decrease -)	-\$0.59
% Change	-0.26%