

SHARON M. SUZUKI President

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

2019 HAY 31 P 12: 25

PUBLIC UTILITIES COMMISSION

Dear Commissioners:

Subject: Hawai'i Electric Light Energy Cost Recovery Factor for June 2019
Revised Attachments Reflecting RBA Rate Adjustment

Enclosed for filing are revised Attachments 1, 8, 9A, 9B, and 10 of Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") energy cost recovery filing, reflecting the impact of the Company's Revenue Balancing Account ("RBA") rate adjustment, as approved by the Commission in order No. 36336 issued on May 29, 2019.

On May 29, 2019, Hawai'i Electric Light filed its energy cost Recovery Factor for June 2019 and indicated that it would file the enclosed revised attachments after the Commission issued its decision on the Company's RBA rate adjustment proposal submitted in Transmittal No. 19-02 and incorporate the impact in the customer bill analysis. There is no change to the energy cost adjustment as filed on May 29, 2019.

A residential customer consuming 500 kWh of electricity will be paying \$187.89, a decrease of \$0.85 compared to the rates effective May 1, 2019. The decrease in the typical bill is due to the decrease in the energy cost recovery factor (-\$0.39), the increase in the Purchased Power Adjustment (+\$0.01) and the decrease in the RBA rate adjustment (-\$0.47).

For the Commission's convenience, Hawai'i Electric Light is refiling all of the attachments included in the May 29, 2019 filing. The revised attachments are notated with "Revised 5/31/2019" in the headers; the other attachments are unchanged.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

Show M. Agled

ENERGY COST RECOVERY FACTOR

	<u>EFFECTIVI</u>	E DATES	
	<u>5/01/19</u>	6/01/19	<u>Change</u>
Composite Cost			
Generation, ¢/mmbtu Dispersed Generation Energy, ¢/kWh Purchased Energy, ¢/kWh	1,491.69 15.506 13.916	1,480.44 15.476 13.606	(11.25) (0.03) (0.31)
Residential Schedule "R"			
Energy Cost Recovery - ¢/kWh	17.396	17.318	(0.08)
Others - "G,J,P,F"			
Energy Cost Recovery - ¢/kWh	17.396	17.318	(0.08)
Residential Customer with:			
500 KWH Consumption - \$/Bill 600 KWH Consumption - \$/Bill	\$188.74 \$225.93	\$187.89 \$224.90	(\$0.85) (\$1.03)

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

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

Line

1 Effective Date June 1, 2019 2 Supercedes Factors of May 1, 2019

GENERATION COMPONENT

	_	ENTRAL STATI	ON WITH WIND/F	INDBU COMBO	IENT			
	<u> </u>			IT DRO CONIFOI	ALIA I			
	3	FUEL PRICES,	φπιποια					
		I III In alcontain			4 440 00			
	4	Hill Industrial			1,148.99			
	5	Puna Industrial			1,169.05			
	6	Keahole Diesel			1,861.50			
	6a	Keahole ULSD			1,638.23			
	7	Waimea ULSD [Diesel		1,660.48			
	8	Hilo Diesel			1,847.40			
	8a	Hilo (Kanoelehu	a) ULSD Diesel ¹		1,622.95			
	9	Puna Diesel	.,		1,850.49		DG ENERGY COMPONENT	
						25		
	10	Wind			0.00	33	COMPOSITE COST OF DG	
	11	Hydro			0.00		ENERGY, ¢/kWh	15.476
						36	% Input to System kWh Mix	0.121
		BTU MIX, %						
	12					37	WEIGHTED COMPOSITE DG ENERGY COST,	
	13	Hill Industrial			36.650		¢/kWh (Lines 35 x 36)	0.01873
	14	Puna Industrial			5.754		<i>p</i> ////// (2.1.00 00 // 00)	0.0.0.0
	15	Keahole Diesel			33.459	38	BASE DG ENERGY COMPOSITE COS	0.000
E-0	13					30	BASE DG ENERGT COMPOSITE COS	0.000
I5a	40	Keahole ULSD	D: 1		0.274		B 0/1 // 0 / 114/1 M	0.00
	16	Waimea ULSD	Diesel		0.353		Base % Input to System kWh Mix	0.00
	17	Hilo Diesel			6.324	40	WEIGHTED BASE DG ENERGY COST,	
7a		Hilo (Kanoelehu	a) ULSD Diesel ¹		0.338			
	18	Puna Diesel	, -		12.784		¢/kWh (Line 38 x 39)	0.00000
	19				0.000		priceria (Emile de x de)	0.00000
					4.064	11	Cost Less Base (Line 37 - 40)	0.01873
	20	Hydro					` ,	
					100.000		Loss Factor	1.072
	21		OST OF GENERA				Revenue Tax Req Multiplier	1.0975
		CENTRAL STA	ATION + WIND/H	YDRO ¢/mmbtu	1,480.44	44	DG FACTOR, ¢/kWh	
	22	% Input to Syste	m kWh Mix		51.602		(Line 41 x 42 x 43)	0.02204
		EFFICIENCY FA	ACTOR, mmbtu/k\	Νh				
		(A)	(B)	(C)	(D)			
		()	()	Percent of	()			
			Eff Factor	Centrl Stn +	Weighted			
		Fuel Type	mmbtu/kwh	Wind/Hydro	Eff Factor			
	00		IIIIIDtu/KWII					
			0.014560			100 0000		
	23	Industrial	0.014569	42.404	0.006178	100.0000		
	24	Industrial Diesel	0.010480	53.532	0.005610	100.0000		
		Industrial Diesel Other				100.0000		
	24	Industrial Diesel	0.010480	53.532	0.005610	100.0000		
	24 25	Industrial Diesel Other (Lines 23, 2	0.010480	53.532 4.064	0.005610	100.0000		
	24 25	Industrial Diesel Other (Lines 23, 2 Weighted Efficie	0.010480 0.012395 ency Factor, mmbt	53.532 4.064	0.005610	100.0000		
	24 25	Industrial Diesel Other (Lines 23, 2	0.010480 0.012395 ency Factor, mmbt	53.532 4.064	0.005610 0.000504	100.0000		
	24 25 26	Industrial Diesel Other (Lines 23, 2 Weighted Efficie [Lines 23(D) +	0.010480 0.012395 ency Factor, mmbt 24(D) + 25(D)]	53.532 4.064 u/kWh	0.005610 0.000504	100.0000		
	24 25 26	Industrial Diesel Other (Lines 23, 2 Weighted Efficie [Lines 23(D) +	0.010480 0.012395 ency Factor, mmbt 24(D) + 25(D)] MPOSITE CENTI	53.532 4.064 u/kWh RAL STATION +	0.005610 0.000504	100.0000		
	24 25 26	Industrial Diesel Other (Lines 23, 2 Weighted Efficie [Lines 23(D) + WEIGHTED CO WIND/HYDRO	0.010480 0.012395 ency Factor, mmbt 24(D) + 25(D)] MPOSITE CENTI GENERATION C	53.532 4.064 u/kWh RAL STATION +	0.005610 0.000504 0.0122920	100.0000		
	24 25 26	Industrial Diesel Other (Lines 23, 2 Weighted Efficie [Lines 23(D) +	0.010480 0.012395 ency Factor, mmbt 24(D) + 25(D)] MPOSITE CENTI GENERATION C	53.532 4.064 u/kWh RAL STATION +	0.005610 0.000504	100.0000		
	24252627	Industrial Diesel Other (Lines 23, 2 Weighted Efficie [Lines 23(D) + WEIGHTED CO WIND/HYDRO (Lines (21 x 22)	0.010480 0.012395 ency Factor, mmbt 24(D) + 25(D)] MPOSITE CENTI GENERATION C x 26))	53.532 4.064 u/kWh RAL STATION + OST, ¢/kWh	0.005610 0.000504 0.0122920	100.0000		
	24252627	Industrial Diesel Other (Lines 23, 2 Weighted Efficie [Lines 23(D) + WEIGHTED CO WIND/HYDRO (Lines (21 x 22)	0.010480 0.012395 ency Factor, mmbt 24(D) + 25(D)] MPOSITE CENTI GENERATION C	53.532 4.064 u/kWh RAL STATION + OST, ¢/kWh	0.005610 0.000504 0.0122920 9.39031	100.0000		
	24252627	Industrial Diesel Other (Lines 23, 2 Weighted Efficie [Lines 23(D) + WEIGHTED CO WIND/HYDRO (Lines (21 x 22) BASE CENTRA	0.010480 0.012395 ency Factor, mmbt 24(D) + 25(D)] MPOSITE CENTI GENERATION C x 26))	53.532 4.064 u/kWh RAL STATION + OST, ¢/kWh	0.005610 0.000504 0.0122920	100.0000		
	2425262728	Industrial Diesel Other (Lines 23, 2 Weighted Efficie [Lines 23(D) + WEIGHTED CO WIND/HYDRO (Lines (21 x 22) BASE CENTRAL GENERATIO	0.010480 0.012395 ency Factor, mmbt 24(D) + 25(D)] MPOSITE CENTI GENERATION C x 26)) L STATION + WIP DN COST, ¢/mmb	53.532 4.064 u/kWh RAL STATION + OST, ¢/kWh	0.005610 0.000504 0.0122920 9.39031	100.0000		
	242526272829	Industrial Diesel Other (Lines 23, 2 Weighted Efficie [Lines 23(D) + WEIGHTED CO WIND/HYDRO (Lines (21 x 22) BASE CENTRA GENERATIC Base % Input to	0.010480 0.012395 ency Factor, mmbt 24(D) + 25(D)] MPOSITE CENTI GENERATION C x 26)) L STATION + WINDON COST, ¢/mmb Sys kWh Mix	53.532 4.064 u/kWh RAL STATION + OST, ¢/kWh	0.005610 0.000504 0.0122920 9.39031 0.00 0.00	100.0000		
	24 25 26 27 28 29 30	Industrial Diesel Other (Lines 23, 2 Weighted Efficie [Lines 23(D) + WEIGHTED CO WIND/HYDRO (Lines (21 x 22 BASE CENTRAL GENERATIC Base % Input to Efficiency Factor	0.010480 0.012395 ency Factor, mmbt 24(D) + 25(D)] MPOSITE CENTI GENERATION C x 26)) L STATION + WII DN COST, ¢/mmb Sys kWh Mix r, mmbtu/kwh	53.532 4.064 u/kWh RAL STATION + OST, ¢/kWh	0.005610 0.000504 0.0122920 9.39031	100.0000		
	24 25 26 27 28 29 30	Industrial Diesel Other (Lines 23, 2 Weighted Efficie [Lines 23(D) + WEIGHTED CO WIND/HYDRO (Lines (21 x 22 BASE CENTRA GENERATIC Base % Input to Efficiency Factol WEIGHTED BA	0.010480 0.012395 ency Factor, mmbt 24(D) + 25(D)] MPOSITE CENTI GENERATION C x 26)) L STATION + WIND DN COST, ¢/mmb Sys kWh Mix r, mmbtu/kwh SE CENTRAL ST	53.532 4.064 u/kWh RAL STATION + OST, ¢/kWh ND/HYDRO tu	0.005610 0.000504 0.0122920 9.39031 0.00 0.00	100.0000		
	24 25 26 27 28 29 30	Industrial Diesel Other (Lines 23, 2 Weighted Efficie [Lines 23(D) + WEIGHTED CO WIND/HYDRO (Lines (21 x 22 BASE CENTRA GENERATIO Base % Input to Efficiency Factor WEIGHTED BA WIND/HYDRO	0.010480 0.012395 ency Factor, mmbt 24(D) + 25(D)] MPOSITE CENTE GENERATION C x 26)) L STATION + WIN DN COST, ¢/mmb Sys kWh Mix r, mmbtu/kwh SE CENTRAL ST. GENERATION C	53.532 4.064 u/kWh RAL STATION + OST, ¢/kWh ND/HYDRO tu	0.005610 0.000504 0.0122920 9.39031 0.00 0.0000000	100.0000		
	24 25 26 27 28 29 30	Industrial Diesel Other (Lines 23, 2 Weighted Efficie [Lines 23(D) + WEIGHTED CO WIND/HYDRO (Lines (21 x 22 BASE CENTRA GENERATIC Base % Input to Efficiency Factol WEIGHTED BA	0.010480 0.012395 ency Factor, mmbt 24(D) + 25(D)] MPOSITE CENTE GENERATION C x 26)) L STATION + WIN DN COST, ¢/mmb Sys kWh Mix r, mmbtu/kwh SE CENTRAL ST. GENERATION C	53.532 4.064 u/kWh RAL STATION + OST, ¢/kWh ND/HYDRO tu	0.005610 0.000504 0.0122920 9.39031 0.00 0.00	100.0000		
	24 25 26 27 28 29 30 31	Industrial Diesel Other (Lines 23, 2 Weighted Efficie [Lines 23(D) + WEIGHTED CO WIND/HYDRO (Lines (21 x 22 BASE CENTRA GENERATIC Base % Input to Efficiency Factor WEIGHTED BA WIND/HYDRO (Lines (28 x 2)	0.010480 0.012395 ency Factor, mmbt 24(D) + 25(D)] MPOSITE CENTI GENERATION C x 26)) L STATION + WIR DN COST, ¢/mmb Sys kWh Mix r, mmbtu/kwh SE CENTRAL ST GENERATION C 9 x 30))	53.532 4.064 u/kWh RAL STATION + OST, ¢/kWh ND/HYDRO tu	0.005610 0.000504 0.0122920 9.39031 0.00 0.00 0.000000	100.0000	SUMMARY OF	
	24 25 26 27 28 29 30 31	Industrial Diesel Other (Lines 23, 2 Weighted Efficie [Lines 23(D) + WEIGHTED CO WIND/HYDRO (Lines (21 x 22 BASE CENTRA GENERATIC Base % Input to Efficiency Factor WEIGHTED BA WIND/HYDRO (Lines (28 x 2)	0.010480 0.012395 ency Factor, mmbt 24(D) + 25(D)] MPOSITE CENTE GENERATION C x 26)) L STATION + WIN DN COST, ¢/mmb Sys kWh Mix r, mmbtu/kwh SE CENTRAL ST. GENERATION C	53.532 4.064 u/kWh RAL STATION + OST, ¢/kWh ND/HYDRO tu	0.005610 0.000504 0.0122920 9.39031 0.00 0.0000000	100.0000	SUMMARY OF TOTAL GENERATION FACTOR, ¢/kWh	
	24 25 26 27 28 29 30 31	Industrial Diesel Other (Lines 23, 2 Weighted Efficie [Lines 23(D) + WEIGHTED CO WIND/HYDRO (Lines (21 x 22 BASE CENTRA GENERATIC Base % Input to Efficiency Factor WEIGHTED BA WIND/HYDRO (Lines (28 x 2)	0.010480 0.012395 ency Factor, mmbt 24(D) + 25(D)] MPOSITE CENTI GENERATION C x 26)) L STATION + WIP DN COST, ¢/mmb Sys kWh Mix r, mmbtu/kwh SE CENTRAL ST GENERATION C 9 x 30)) SE (Line 27 - 31)	53.532 4.064 u/kWh RAL STATION + OST, ¢/kWh ND/HYDRO tu	0.005610 0.000504 0.0122920 9.39031 0.00 0.00 0.000000			10.30587
	24 25 26 27 28 29 30 31 32 33	Industrial Diesel Other (Lines 23, 2 Weighted Efficie [Lines 23(D) + WEIGHTED CO WIND/HYDRO (Lines (21 x 22 BASE CENTRAL GENERATIC Base % Input to Efficiency Factor WEIGHTED BA WIND/HYDRO (Lines (28 x 2) COST LESS BA Revenue Tax Re	0.010480 0.012395 ency Factor, mmbt 24(D) + 25(D)] MPOSITE CENTI GENERATION C x 26)) L STATION + WIP DN COST, ¢/mmb Sys kWh Mix r, mmbtu/kwh SE CENTRAL ST GENERATION C 9 x 30)) SE (Line 27 - 31)	53.532 4.064 u/kWh RAL STATION + OST, ¢/kWh ND/HYDRO tu ATION + OST ¢/kWh	0.005610 0.000504 0.0122920 9.39031 0.00 0.000 0.000000 0.000000 9.39031	45	TOTAL GENERATION FACTOR, ¢/kWh	10.30587 0.02204
	24 25 26 27 28 29 30 31 32 33	Industrial Diesel Other (Lines 23, 2 Weighted Efficie [Lines 23(D) + WEIGHTED CO WIND/HYDRO (Lines (21 x 22 BASE CENTRAL GENERATIC Base % Input to Efficiency Factor WEIGHTED BA WIND/HYDRO (Lines (28 x 2 COST LESS BA Revenue Tax Re CENTRAL STAT	0.010480 0.012395 ency Factor, mmbt 24(D) + 25(D)] MPOSITE CENTI GENERATION C x 26)) L STATION + WIP DN COST, ¢/mmb Sys kWh Mix r, mmbtu/kwh SE CENTRAL ST. GENERATION C 9 x 30)) SE (Line 27 - 31) eq Multiplier FION + WIND/HYI	53.532 4.064 u/kWh RAL STATION + OST, ¢/kWh ND/HYDRO tu ATION + OST ¢/kWh	0.005610 0.000504 0.0122920 9.39031 0.00 0.000 0.000000 0.000000 9.39031	45 46	TOTAL GENERATION FACTOR, ¢/kWh Cntrl Stn+Wind/Hydro (line 34) DG (line 44)	
	24 25 26 27 28 29 30 31 32 33	Industrial Diesel Other (Lines 23, 2 Weighted Efficie [Lines 23(D) + WEIGHTED CO WIND/HYDRO (Lines (21 x 22 BASE CENTRAL GENERATIC Base % Input to Efficiency Factor WEIGHTED BA WIND/HYDRO (Lines (28 x 2) COST LESS BA Revenue Tax Re	0.010480 0.012395 Incy Factor, mmbt 24(D) + 25(D)] MPOSITE CENTE GENERATION C x 26)) L STATION + WIND COST, ¢/mmb Sys kWh Mix r, mmbtu/kwh SE CENTRAL ST. GENERATION C 9 x 30)) SE (Line 27 - 31) eq Multiplier FION + WIND/HYIFACTOR,	53.532 4.064 u/kWh RAL STATION + OST, ¢/kWh ND/HYDRO tu ATION + OST ¢/kWh	0.005610 0.000504 0.0122920 9.39031 0.00 0.000 0.000000 0.000000 9.39031	45 46	TOTAL GENERATION FACTOR, ¢/kWh Cntrl Stn+Wind/Hydro (line 34)	

 $^{^{\}mathrm{1}}\,$ Hilo ULSD same location as Kanoelehua ULSD

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

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

	PURCHASED EN	IERGY COMPONEN	<u>IT</u>			
	PURCHASED ENERGY PRICE	CE d/kWh = Fossil	ļ			
48	HEP	JE, ψ/ΚΥΥΠ FUSSII	13.632			
	PURCHASED ENERGY PRICE	CE, ¢/kWh Renewable	Э			
49	PGV	On Peak	16.368			
50	PGV	Off Peak	14.924			
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	16.368			
	Wailuku Hydro	Off Peak	14.924			
	Hawi Renewable Dev.	On Peak	16.368			
	Hawi Renewable Dev.	Off Peak	14.924			
	Tawhiri (Pakini Nui)	On Peak	11.980			
	Tawhiri (Pakini Nui)	Off Peak	12.050			
61		OII I CUR	12.000			
	Small Hydro (>100 KW)	On Peak	16.368			
	Small Hydro (>100 KW)	Off Peak	14.924			
	,	OII I GAN	15.440			
	Sch Q Hydro (<100 KW) FIT		23.800			
00	ГП		∠ა.800			
	PURCHASED ENERGY KWI	HMIY % Facail	ļ			
66	HEP	7 IVIIA, 70, FUSSII	66.784			
00	HEF		00.704			
	PURCHASED ENERGY KWI	H MIX % Renewable	ļ			
67	PGV	On Peak	0.000			
	PGV	Off Peak	0.000			
	PGV - Addt'l		0.000			
		On Peak	0.000			
	PGV - Addt'l	Off Peak				
	PGV - Add'l 8 MW	On Peak	0.000			
	PGV - Add'l 8 MW	Off Peak	0.000			
	Wailuku Hydro	On Peak	1.764			
	Wailuku Hydro	Off Peak	1.248			
	Hawi Renewable Dev.	On Peak	5.322			
	Hawi Renewable Dev.	Off Peak	2.773			
	Tawhiri (Pakini Nui)	On Peak		Derivation of	of Non-Adjustable Component:	
78	Tawhiri (Pakini Nui)	Off Peak	8.590			
79			J	93A	Ocean Cargo Insurance Exp, \$000	
0.0	Small Hydro (>100 KW)	On Peak	0.000			
δÚ			0.000		HELCO-R-503, page 1, line 4	
	Small Hydro (>100 KW)	Off Peak	0.000	93B	HELCO-R-503, page 1, line 4 Revenue Tax Adjustment	
81	Small Hydro (>100 KW) Sch Q Hydro (<100 KW)			93B 93C	· -	
81 82	- , , , ,		0.000 0.224	93C	Revenue Tax Adjustment Non-Adj Revenues, \$000	
81 82	Sch Q Hydro (<100 KW)		0.000 0.224 0.678		Revenue Tax Adjustment Non-Adj Revenues, \$000 2016 TY Sales, MWh	
81 82	Sch Q Hydro (<100 KW)		0.000 0.224	93C	Revenue Tax Adjustment Non-Adj Revenues, \$000 2016 TY Sales, MWh HELCO-WP-302z	
81 82 83	Sch Q Hydro (<100 KW) FIT	Off Peak	0.000 0.224 0.678 100.000	93C 93D	Revenue Tax Adjustment Non-Adj Revenues, \$000 2016 TY Sales, MWh	
81 82 83 83a	Sch Q Hydro (<100 KW) FIT a Comp. Cost Purchased Energ	Off Peak gy Fossil, ¢/kWh	0.000 0.224 0.678 100.000 13.6320	93C 93D	Revenue Tax Adjustment Non-Adj Revenues, \$000 2016 TY Sales, MWh HELCO-WP-302z	
81 82 83 83a 83b	Sch Q Hydro (<100 KW) FIT a Comp. Cost Purchased Energy Comp. Cost Purchased Energy	Off Peak gy Fossil, ¢/kWh gy Renewable, ¢/kWh	0.000 0.224 0.678 100.000	93C 93D	Revenue Tax Adjustment Non-Adj Revenues, \$000 2016 TY Sales, MWh HELCO-WP-302z	
81 82 83 83a 83b	Sch Q Hydro (<100 KW) FIT a Comp. Cost Purchased Energy Comp. Cost Purchased Energy COMPOSITE COST OF PUR	Off Peak gy Fossil, ¢/kWh gy Renewable, ¢/kWh	0.000 0.224 0.678 100.000 13.6320 13.5553	93C 93D	Revenue Tax Adjustment Non-Adj Revenues, \$000 2016 TY Sales, MWh HELCO-WP-302z	
81 82 83 83a 83b 84	Sch Q Hydro (<100 KW) FIT a Comp. Cost Purchased Energy Comp. Cost Purchased Energy COMPOSITE COST OF PUR ENERGY, ¢/kWh	Off Peak gy Fossil, ¢/kWh gy Renewable, ¢/kWh	0.000 0.224 0.678 100.000 13.6320 13.5553	93C 93D	Revenue Tax Adjustment Non-Adj Revenues, \$000 2016 TY Sales, MWh HELCO-WP-302z	
81 82 83 83a 83b 84 85	Sch Q Hydro (<100 KW) FIT a Comp. Cost Purchased Energy Comp. Cost Purchased Energy COMPOSITE COST OF PUR ENERGY, ¢/kWh % Input to System kWh Mix	Off Peak gy Fossil, ¢/kWh gy Renewable, ¢/kWh RCHASED	0.000 0.224 0.678 100.000 13.6320 13.5553	93C 93D	Revenue Tax Adjustment Non-Adj Revenues, \$000 2016 TY Sales, MWh HELCO-WP-302z	
81 82 83 83a 83b 84 85	Sch Q Hydro (<100 KW) FIT a Comp. Cost Purchased Energy COMPOSITE COST OF PURENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PURENGY PURCHASED	Off Peak gy Fossil, ¢/kWh gy Renewable, ¢/kWh RCHASED URCHASED ENERGY	0.000 0.224 0.678 100.000 13.6320 13.5553 13.606 48.277	93C 93D	Revenue Tax Adjustment Non-Adj Revenues, \$000 2016 TY Sales, MWh HELCO-WP-302z	
81 82 83 83a 83b 84 85	Sch Q Hydro (<100 KW) FIT a Comp. Cost Purchased Energy Comp. Cost Purchased Energy COMPOSITE COST OF PUR ENERGY, ¢/kWh % Input to System kWh Mix	Off Peak gy Fossil, ¢/kWh gy Renewable, ¢/kWh RCHASED URCHASED ENERGY	0.000 0.224 0.678 100.000 13.6320 13.5553	93C 93D	Revenue Tax Adjustment Non-Adj Revenues, \$000 2016 TY Sales, MWh HELCO-WP-302z	
81 82 83 83a 83b 84 85 86	Sch Q Hydro (<100 KW) FIT a Comp. Cost Purchased Energy COMPOSITE COST OF PUR ENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PUR COST, ¢/kWh (Lines (88 x 8)	Off Peak gy Fossil, ¢/kWh gy Renewable, ¢/kWh RCHASED URCHASED ENERGY 89))	0.000 0.224 0.678 100.000 13.6320 13.5553 13.606 48.277	93C 93D	Revenue Tax Adjustment Non-Adj Revenues, \$000 2016 TY Sales, MWh HELCO-WP-302z	
81 82 83 83a 83b 84 85 86	Sch Q Hydro (<100 KW) FIT a Comp. Cost Purchased Energy Comp. Cost Purchased Energy COMPOSITE COST OF PUF ENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PU COST, ¢/kWh (Lines (88 x & BASE PURCHASED ENERGY	Off Peak gy Fossil, ¢/kWh gy Renewable, ¢/kWh RCHASED URCHASED ENERGY 89))	0.000 0.224 0.678 100.000 13.6320 13.5553 13.606 48.277 6.56857	93C 93D 93E	Revenue Tax Adjustment Non-Adj Revenues, \$000 2016 TY Sales, MWh HELCO-WP-302z Non-Adj Revenues, ¢/kWh	POSITE
81 82 83 83a 83b 84 85 86	Sch Q Hydro (<100 KW) FIT a Comp. Cost Purchased Energy Comp. Cost Purchased Energy COMPOSITE COST OF PUF ENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PUF COST, ¢/kWh (Lines (88 x 8) BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh	Off Peak gy Fossil, ¢/kWh gy Renewable, ¢/kWh RCHASED URCHASED ENERGY 39))	0.000 0.224 0.678 100.000 13.6320 13.5553 13.606 48.277 6.56857	93C 93D	Revenue Tax Adjustment Non-Adj Revenues, \$000 2016 TY Sales, MWh HELCO-WP-302z	POSITE
81 82 83 83a 83b 84 85 86 87	Sch Q Hydro (<100 KW) FIT a Comp. Cost Purchased Energy Comp. Cost Purchased Energy COMPOSITE COST OF PUR ENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PUR COST, ¢/kWh (Lines (88 x 8) BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh Base % Input to Sys kWh Mix	Off Peak gy Fossil, ¢/kWh gy Renewable, ¢/kWh RCHASED URCHASED ENERGY 39)) SY	0.000 0.224 0.678 100.000 13.6320 13.5553 13.606 48.277 6.56857	93C 93D 93E	Revenue Tax Adjustment Non-Adj Revenues, \$000 2016 TY Sales, MWh HELCO-WP-302z Non-Adj Revenues, ¢/kWh	
81 82 83 83a 83b 84 85 86 87	Sch Q Hydro (<100 KW) FIT a Comp. Cost Purchased Energy Comp. Cost Purchased Energy COMPOSITE COST OF PURENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PURCHASED ENERGY COMPOSITE COST, ¢/kWh Base % Input to Sys kWh Mix WEIGHTED BASE PURCHA	Off Peak gy Fossil, ¢/kWh gy Renewable, ¢/kWh RCHASED URCHASED ENERGY 39)) SY n K SED ENERGY	0.000 0.224 0.678 100.000 13.6320 13.5553 13.606 48.277 6.56857	93C 93D 93E	Revenue Tax Adjustment Non-Adj Revenues, \$000 2016 TY Sales, MWh HELCO-WP-302z Non-Adj Revenues, ¢/kWh SYSTEM COMP	
81 82 83 83a 83b 84 85 86 87	Sch Q Hydro (<100 KW) FIT a Comp. Cost Purchased Energy Comp. Cost Purchased Energy COMPOSITE COST OF PUR ENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PUR COST, ¢/kWh (Lines (88 x 8) BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh Base % Input to Sys kWh Mix	Off Peak gy Fossil, ¢/kWh gy Renewable, ¢/kWh RCHASED URCHASED ENERGY 39)) SY n K SED ENERGY	0.000 0.224 0.678 100.000 13.6320 13.5553 13.606 48.277 6.56857	93C 93D 93E	Revenue Tax Adjustment Non-Adj Revenues, \$000 2016 TY Sales, MWh HELCO-WP-302z Non-Adj Revenues, ¢/kWh SYSTEM COMP 94 GENERATION AND PURCHASED E FACTOR, ¢/kWh (Lines (47 + 93))	
81 82 83 83a 83b 84 85 86 87 88 89	Sch Q Hydro (<100 KW) FIT a Comp. Cost Purchased Energy Comp. Cost Purchased Energy COMPOSITE COST OF PURENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PURCHASED ENERGY COMPOSITE COST, ¢/kWh Base % Input to Sys kWh Mix WEIGHTED BASE PURCHA COST, ¢/kWh (Lines (91 x 9)	Off Peak gy Fossil, ¢/kWh gy Renewable, ¢/kWh RCHASED URCHASED ENERGY 39)) SY n (SED ENERGY	0.000 0.224 0.678 100.000 13.6320 13.5553 13.606 48.277 6.56857 0.000 0.000	93C 93D 93E	Revenue Tax Adjustment Non-Adj Revenues, \$000 2016 TY Sales, MWh HELCO-WP-302z Non-Adj Revenues, ¢/kWh SYSTEM COMP 94 GENERATION AND PURCHASED E FACTOR, ¢/kWh (Lines (47 + 93)) 95 Not Used	
81 82 83 83a 83b 84 85 86 87 88 89	Sch Q Hydro (<100 KW) FIT a Comp. Cost Purchased Energy Comp. Cost Purchased Energy COMPOSITE COST OF PUB- ENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PUBLISHED COMPOSITE PUBLISHED ENERGY COMPOSITE COST, ¢/kWh Base % Input to Sys kWh Mix WEIGHTED BASE PURCHA COST, ¢/kWh (Lines (91 x 92) COST LESS BASE (Lines (94)	Off Peak gy Fossil, ¢/kWh gy Renewable, ¢/kWh RCHASED URCHASED ENERGY 39)) SY n (SED ENERGY	0.000 0.224 0.678 100.000 13.6320 13.5553 13.606 48.277 6.56857 0.000 0.000	93C 93D 93E	Revenue Tax Adjustment Non-Adj Revenues, \$000 2016 TY Sales, MWh HELCO-WP-302z Non-Adj Revenues, ¢/kWh SYSTEM COMP 94 GENERATION AND PURCHASED E FACTOR, ¢/kWh (Lines (47 + 93)) 95 Not Used 96 Non-Adjustable Component	
81 82 83 83a 83b 84 85 86 87 88 89 90 91	Sch Q Hydro (<100 KW) FIT a Comp. Cost Purchased Energy Comp. Cost Purchased Energy COMPOSITE COST OF PURENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PURCHASED ENERGY COMPOSITE COST, ¢/kWh Base % Input to Sys kWh Mix WEIGHTED BASE PURCHA COST, ¢/kWh (Lines (91 x 9) COST LESS BASE (Lines (90) Loss Factor	Off Peak gy Fossil, ¢/kWh gy Renewable, ¢/kWh RCHASED URCHASED ENERGY 39)) SY n (SED ENERGY	0.000 0.224 0.678 100.000 13.6320 13.5553 13.606 48.277 6.56857 0.000 0.00 0.000 6.56857 1.072	93C 93D 93E	Revenue Tax Adjustment Non-Adj Revenues, \$000 2016 TY Sales, MWh HELCO-WP-302z Non-Adj Revenues, ¢/kWh SYSTEM COMP 94 GENERATION AND PURCHASED E FACTOR, ¢/kWh (Lines (47 + 93)) 95 Not Used 96 Non-Adjustable Component 97 ECA Reconciliation Adjustment	
81 82 83 83a 83b 84 85 86 87 88 89 90 91 92	Sch Q Hydro (<100 KW) FIT a Comp. Cost Purchased Energy Comp. Cost Purchased Energy COMPOSITE COST OF PUB- ENERGY, ¢/kWh % Input to System kWh Mix WEIGHTED COMPOSITE PUBLISHED COMPOSITE PUBLISHED ENERGY COMPOSITE COST, ¢/kWh Base % Input to Sys kWh Mix WEIGHTED BASE PURCHA COST, ¢/kWh (Lines (91 x 92) COST LESS BASE (Lines (94)	Off Peak gy Fossil, ¢/kWh gy Renewable, ¢/kWh RCHASED URCHASED ENERGY 39)) 5Y 1 (SED ENERGY 92)) 0 - 93))	0.000 0.224 0.678 100.000 13.6320 13.5553 13.606 48.277 6.56857 0.000 0.000	93C 93D 93E	Revenue Tax Adjustment Non-Adj Revenues, \$000 2016 TY Sales, MWh HELCO-WP-302z Non-Adj Revenues, ¢/kWh SYSTEM COMP 94 GENERATION AND PURCHASED E FACTOR, ¢/kWh (Lines (47 + 93)) 95 Not Used 96 Non-Adjustable Component	

Hawaii Electric Light Company, Inc.

FUEL OIL INVENTORY PRICES FOR June 1, 2019

INDUSTRIAL FUEL COSTS: Average Industrial Fuel Cost - \$/BBL Land Transportation Cost - \$/BBL	<u>HILO</u> 72.3861 	<u>PUNA</u> 72.3861 1.2643		
Industrial Costs For Filing - \$/BBL Conversion Factors - mmbtu/BBL	72.3861 6.30	73.6504 6.30		
Industrial Costs For Filing - ¢/mmbtu	1,148.99	1,169.05		
DIESEL FUEL COSTS: Average Diesel Fuel Cost - \$/BBL Land Transportation Cost - \$/BBL	KEAHOLE 107.2052 1.8788	PUNA CT-3 107.2052 1.2333	HILO 107.2052 1.0524	
Diesel Costs For Filing - \$/BBL Conversion Factors - mmbtu/BBL	109.0841 5.86	108.4386 5.86	108.2576 5.86	
Diesel Costs For Filing - ¢/mmbtu	1,861.50	1,850.49	1,847.40	:
ULSD FUEL COSTS: Average ULSD Fuel Cost - \$/BBL Land Transportation Cost - \$/BBL	KEAHOLE 91.8490 2.0218	WAIMEA 91.8490 3.2963	HILO 91.8490 1.1459	DISPERSED GENERATION 91.8490 -
ULSD Costs For Filing - \$/BBL Conversion Factors - mmbtu/BBL	93.8708 5.73	95.1453 5.73	92.9948 5.73	91.8490 5.73
ULSD Costs For Filing - ¢/mmbtu	1,638.23	1,660.48	1,622.95	1,602.95

Dispersed Generation, cents per kWh

	COMPOSITE COST
	OF DISP. GEN.
BBIs Fuel:	187.0245
\$/BBI Inv Cost:	91.8490
Fuel \$ (Prod Sim Consumption x Unit Cost)	17,178.00
Net kWh (from Prod Sim)	111,000
cents/kWh:	15.476

Estimated Weighted Average May 2019

SHIPMAN INDUSTRIAL HILL INDUSTRIAL

	31111 1417 (14 11	NDUSTRIAL	TILL INDU	9911(I) (E				
					COST PER BARREL			
	BBL	COST	BBL	COST	EXCL LT	LT Total		
Balance at 04/30/2019	0	0.00	44,887	3,592,307.34				
Less: Est'd Inventory Addn			0	0.00				
Purchases: Estimate	xxxxxx xxxx	xxxxxxxxxx	xxxxxxxx	xxxxxxxxxxxx				
Actual	XXXXXX XXXX	xxxxxxxxxx	xxxxxxx	xxxxxxxxxxxx				
Transfers out: Estimate	XXXXXX XXXX	xxxxxxxxxx	xxxxxxx	xxxxxxxxxxx				
Actual	XXXXXX XXXX	xxxxxxxxxx	xxxxxxx	xxxxxxxxxxxx				
Transfers in: Estimate	0	0.00	(39,165)	(2,901,310.07)				
Actual	0	0.00	29,232	2,161,821.24				
Consumed: Estimate	0	0.00	31,498	2,248,361.18				
Actual	0	0.00	(26,939)	(2,122,829.98)				
Balance Per G/L 04/30/2019	0	0.00	39,513	2,978,349.71				
Purchases	xxxxxx xxxx	xxxxxxxxxx	xxxxxxx	xxxxxxxxxxxx				
Transfer out	xxxxxx xxxx	xxxxxxxxxx	xxxxxxx	xxxxxxx xxxxxxxxxxxxx				
Transfer in	0	0.00	18,304	1,310,234.92				
Consumed	0	0.00	(18,638)	(1,403,363.12)	106.5901	0.0000	106.5901	
Balance @ 05/31/2019	0	0.00	39,179	2,885,221.51				
Inv From Offsite/Transfers	0	0.00	0	0.00				
Est'd Inventory Addition	0	0.00	0	0.00				
Fuel Balance @ 05/31/2019	0	0.00	39,179	2,885,221.51				
Reverse Fuel Balance	xxxxxx	0.00	xxxxxxx	(2,885,221.51)				
Fuel Bal @ Avg Price	XXXXXX	0.00	xxxxxxx	2,836,016.44				
Total @ 06/01/2019 Avg Price	0	0.00	39,179	2,836,016.44				

Weighted Avg Cost/BBL by Location #DIV/0! 73.6420

Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 72.3861

Estimated Weighted Average May 2019

PUNA INDUSTRIAL

	T ONA INDOSTI	(I) (L				
			LAND	COST PER BA	RREL	
	BBL	COST	TRANSP	EXCLUDE LT	LT	TOTAL
Balance at 04/30/2019	10,022	542,215.26	14,496.43			
	•	0.65	2.22			
Less: Est'd Inventory Addition	0	0.00	0.00			
Purchases: Estimate	vvvvvvvvvv v	·····	····			
Actual			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
Actual	******	*****	xxxxxxxxxxxxxxxxx			
Transfers out: Estimate	xxxxxxxxxxx x	xxxxxxxxxxxx	xxxxxxxxxxxxxxxxxx			
Actual			xxxxxxxxxxxxxxxxxx			
Accuar	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX					
Transfers in: Estimate	(10,828)	(814,645.48)	(12,947.47))		
Actual	9,368	709,618.88	11,593.90			
	7,	,.	,			
Consumed: Estimate	6,523	465,618.77	4,862.29			
Actual	(7,656)	(342,835.78)	· ·)		
		, , ,				
Balance Per G/L 04/30/2019	7,429	559,971.65	11,141.80			
				_		
Purchases	xxxxxxxxxx x	xxxxxxxxxxx	xxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxxxxxx x	xxxxxxxxxxx	xxxxxxxxxxxxxxxxxxx			
Transfer in	12,940	955,297	17,020.11			
	((000 -00 00)	(10.100.00)			
Consumed	(13,225)_	(995,786.96)	(19,129.96)	75.2958	1.4465	76.7423
Delegas @ 05/21/2010	7111	F10 401 4F	0.021.05			
Balance @ 05/31/2019	7,144	519,481.45	9,031.95			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	7,144	519,481.45	9,031.95		1.2643	
Tuel bal @ Avg File	7,144	313,401.43	5,051.95		1,2043	
Reverse Fuel Balance	xxxxxxxxxxx	(519 /121 /15)	xxxxxxxxxxxxxxxxxx			
Fuel Balance @ Avg Price			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
The balance w Avg File	XXXXXXXXXXX	317,120.30	^^^^^^^			
Total @ 06/01/2019 Avg Price	7,144	517,126.56	9,031.95	_		
1.0001 @ 00/01/2013 Avg 1 1100	7,144	317,120.30	5,051.95			
Weighted Avg Cost/BBL by Location		72.7158	1.2643			
Weighted Avg Cost/DDL by Location		, 2., 136	1.2043			
Weighted Avg Cost/BBL @ Avg Cost		72.3861	1.2643			
ANEIGHTER WAS COST DDF OF WAS COST		72.3001	1.2045			

Estimated Weighted Average May 2019

KEAHOLE CT

Weighted Avg Cost/BBL @ Avg Cost

			COST	LAND	COST PER	BARREL	
HS Diesel	BBL	GALLONS	EXCLUDE LT	TRANSP	EXCLUD LT	LT	TOTAL
Balance at 04/30/2019	59,381.5	2,494,022.0	5,849,113.2	164,170.1			
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	>	xxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxxxx			
Actual	>	XXXXXXXXXXXXX	xxxxxxxxxxxxx	xxxxxxxxxxxxxx			
Transfers in: Estimate	(49,888.7)	(2,095,325.0)	(4,772,969.9)	(141,853.5)			
Actual	43,065.9	1,808,766.0	4,390,603.7	119,523.54			
Consumed: Estimate	36,402.4	1,528,900.0	3,612,154.4	99,246.35			
Actual	(33,714.9)	(1,416,026.0)		(136,299.1)	92.3121		
Balance Per G/L 04/30/2019	55,246.1	2,320,337	5,966,609.02	104,787.32	108.0005		
Purchases	xxxxxxxxxxx	xxxxxxxxxxx	xxxxxxxxxxxxx	xxxxxxxxxxxxx			
Transfer out	xxxxxxxxxxx	xxxxxxxxxxx	xxxxxxxxxxxxx	xxxxxxxxxxxxxx			
Transfer in	36,171.7	1,519,210.0	3,580,896.0	102,850.5	98.9973		
Consumed	(40,502.3)	(1,701,098.0)	(3,990,767.8)	(111,976.80)	98.5318	2.7647	101.2965
Balance @ 05/31/2019	50,915.5	2,138,449	5,556,737.23	95,661.04	109.1366		
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	50,915.5	2,138,449	5,556,737.23	95,661.04	109.1366		
Reverse Fuel Balance	xxxxxxxxxxx	xxxxxxxxxxx	(5,556,737.2)	xxxxxxxxxxxxxx			
Fuel Balance @ Avg Price	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	xxxxxxxxxxxx	5,458,403.3	xxxxxxxxxxxxxx			
Total @ 06/01/2019 Avg Price	50,915.5	2,138,449	5,458,403.27	95,661.04	107.2052		
Weighted Avg Cost/BBL by Location			109.1366	1.8788			

107.2052

1.8788

Estimated Weighted Average May 2019

PUNA CT-3

			COST	LAND	COST PER B	ARREL			
HS Diesel	BBL	GALLONS	EXCLUD LT	TRANSP	EXCL LT	LT	TOTAL		
Balance at 04/30/2019	3,503.9	147,162.0	373,513.4	2,477.2					
Less: Est'd Inven Addition	0.0	0.0	0.0	0.0					
Purchases: Estimate	X	xxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxx					
Actual	X	XXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXX							
To sefere a Lifetimete									
Transfers out: Estimate		xxxxxxxxxxxxx							
Actual	XXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXX								
Transfers in: Estimate	(4 940 2)	(202 671 0)	(AAE 260 7\	/E 276 0\					
Actual	(4,849.3)	(203,671.0)							
Actual	5,370.3	225,551.0	560,686.7	6,059.0					
Consumed: Estimate	5,301.1	222,648.0	526,024.6	6,128.6					
Actual	(4,145.7)	(174,120.0)	•						
Actual	(4,143.7)	(174,120.0)	(455,387.0)	(4,732.2)					
Balance Per G/L 04/30/2019	5,180.2	217,570	559,468.36	4,495.64					
Bulance 1 ch 3/2 04/30/2013	3,100.2	217,370	333,400.30	4,433.04					
Purchases	xxxxxxxxxxx x	xxxxxxxxxxxxx	xxxxxxxxxxx	xxxxxxxxxx					
Transfer out	xxxxxxxxxx x	xxxxxxxxxxxxx	xxxxxxxxxxx	xxxxxxxxxx					
Transfer in	3,829.3	160,832.0	367,551.8	4,246.0	95.9832				
Consumed	(4,725.5)	(198,471)	(465,612.02)	(3,340.93)	98.5318	0.7070	99.2388		
Balance @ 05/31/2019	4,284.1	179,931	461,408.17	5,400.68	107.7032				
Inven From Offsite/Transfers	0.0	0	0.00	0.00					
Est'd Inventory Addition	0.0	0	0.00	0.00					
Fuel Balance @ 05/31/2019	5,223.0	219,365	552,958.44	6,441.73	105.8705				
Reverse Fuel Balance		xxxxxxxxxxxxx							
Fuel Balance @ Avg Price	XXXXXXXXXXX X	xxxxxxxxxxxxx	559,929.90	XXXXXXXXXX					
Total @ 06/01/2019 Avg Price	5,223.0	219,365	559,929.90	6,441.73	107.2052				
Weighted Avg Cost/BBL by Location			105.8705	1.2333					
Weighted Avg Cost/BBL @ Avg Cost			107.2052	1.2333					

Estimated Weighted Average May 2019

TOTAL HILO HS-DIESEL

		TOTAL HILU	115 DIESEE				
			COST	LAND	COST PER	BARREL	
HS Diesel	BBL	GALLONS	EXCLUDE LT	TRANSP	EXCL LT	LT	TOTAL
Balance at 04/30/2019	1905.0	80,010	165,730	1,970			
Less: Est'd Inven Addition	0.0	0	0	0			
Purchases: Estimate		xxxxxxxxxx	xxxxxxxxxxx	xxxxxxxxxx			
Actual		xxxxxxxxxx	(XXXXXXXXXXX)	xxxxxxxxxx			
Transfers out: Estimate		xxxxxxxxxx	xxxxxxxxxxx				
Actub		xxxxxxxxxx	XXXXXXXXXXXX	xxxxxxxxxx			
Transfers in: Estimate	-563.4	-23662.0	-52982.9	-551.3			
Actual	562.7	23635.0	58006.5	553.2			
Consumed: Estimate	297.0	12475.0	29473.2	315.4			
Actual	-267.5	-11234.0	8635.8	-47.1			
Balance Per G/L 04/30/2019	1933.9	81,224	208,862.70	2,240.21	108.0005		
Purchases	xxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxx			
Transfer out	xxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxx			
Transfer in	376.0	15792.0	36874.3	185.0	99.0723		
Consumed	-316.6	-13296.0	-31192.4	-327.4	98.5318	1.0341	99.5659
Balance @ 05/31/2019	1,993.3	83,720	214,544.63	2,097.80	107.6311		
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	1,993.3	83,720	214,544.63	2,097.80	107.6311		
Reverse Fuel Balance	xxxxxxxxxxx	xxxxxxxxxx	c -214,544.63	xxxxxxxxxx			
Fuel Balance @ Avg Price			213,695.78				
Total @ 06/01/2019 Avg Price	1,993.3	83,720	213,695.78	2,097.80	107.2052		
Weighted Avg Cost/BBL by Location			107.6311	1.0524			

107.2052

1.0524

Weighted Avg Cost/BBL @ Avg Cost

Estimated Weighted Average May 2019

KEAHOLE DIESEL

		KEAHOLE DIES		1.44.5	000T DES		
			COST	LAND	COST PER BARREL		
ULSD	BBL	GALLONS	EXCLUDE LT	TRANSP	EXCLUD LT	LT	TOTAL
Balance at 04/30/2019	2,030.4	85,277	184,252.19	6,598.96			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	0.0	0	0.00	0.00			
Actual	189.0	7,936	19,226.69	0.00			
Transfers out: Estimate	:	xxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxx			
Actual	;	xxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxx			
Transfers in: Estimate		(15,874)	(35,613.47)	(1,074.67)			
Actual		(105)	0.00	537.27			
Consumed: Estimate	189.8	7,973	17,175.95	624.78			
Actual	(152.6)	(6,408)	(15,542.90)	(3,127.75)	101.8729		
Balance Per G/L 04/30/2019	1,876.2	78,799	169,498.46	3,558.59	90.3430		
Purchases	188.9	7,933	18,775.48	537.06	0.0000		
Estimated Purchases	190.0	7,980	18,886.72	540.25			
Transfer in	(0.6)	(25)	0.00	(1.69)	0.00		
Consumed	(62.0)	(2,604)	(5,705.86)	(201.51)	92.0300	3.2501	95.2801
Balance @ 05/31/2019	2,192.5	92,083	201,454.80	4,432.70	91.8856		
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	2,192.5	92,083	201,454.80	4,432.70	91.8856		
Reverse Fuel Balance	xxxxxxxxxxx	xxxxxxxxxxx	(201.454.80)	xxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxx			xxxxxxxxxx			
Total @ 06/01/2019 Avg Price	2,192.5	92,083	201,374.49	4,432.70	91.8490		
Weighted Avg Cost/BBL by Location			91.8856	2.0218			
Weighted Avg Cost/BBL @ Avg Cost			91.8490	2.0218			

Estimated Weighted Average May 2019

WAIMEA DIESEL

		WAIMEA DIES					
			COST	LAND	COST PER BARRE	<u>L</u>	
ULSD	BBL	GALLONS	EXCLUDE LT	TRANSP		LT	TOTAL
Deleges at 04/20/2010	1 120 4	47 475 0	102.005.2	2.745.26			
Balance at 04/30/2019	1,130.4	47,475.0	102,065.3	3,745.26			
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	vvvvvvvvvvv			
Actual			XXXXXXXXXXXXXXX				
/ totali		7,000,000,000,000	7,000,000,000,000	7,7,0,0,0,0,0,0,0			
Transfers in: Estimate	(1.1)	(48)	0.00	0.00			
Actual	1.5	61	0.00	0.00			
Company of Fatiments	1545	C 400	12.076.07	F11 70			
Consumed: Estimate	154.5	6,488	13,976.87	511.79			
Actual	(128.5)	(5,398)	(11,549.76)	(425.80)			
Balance Per G/L 04/30/2019	1,156.6	48,578	104,492.39	3,831.25	90.3430		
		-		-			
ULSD Purchases	0.0	0	0.00	0.00	#DIV/0!		
Estimated Durahasas		0	0.00	0.00			
Estimated Purchases	-	U	0.00	0.00			
Transfer in	xxxxxxxxxxx	223	0.00	0.00	#DIV/0!		
Consumed	(69.6)	(2,924)	(6,407.04)	(230.67)	92.0300	3.3133	95.3433
Balance @ 05/31/2019	1,092.3	45,877	98,085.35	3,600.58	89.7963		
Inven From Offsite/Transfers	0.0	45,877	0.00	0.00	69.7903		
Est'd Inventory Addition	0.0	0	0.00	0.00			
List a inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ Avg Price	1,092.3	45,877	98,085.35	3,600.58	89.7963		
Reverse Fuel Balance	xxxxxxxxxx	xxxxxxxxxxx	(98,085.35)	xxxxxxxxxx			
Fuel Balance @ Avg Price	XXXXXXXXXXX	XXXXXXXXXXXX	100,327.51	XXXXXXXXXXX			
Total @ 06/01/2019 Avg Price	1 002 2	AE 077	100 227 51	3,600.58	91.8490		
Liorai @ 00/01/2013 Avg Filice	1,092.3	45,877	100,327.51	3,000.58	91.8490		
Weighted Avg Cost/BBL by Location			89.7963	3.2963			
Weighted Avg Cost, but by Location			65.7903	3.2303			
Weighted Avg Cost/BBL @ Avg Cost			91.8490	3.2963			

Estimated Weighted Average May 2019

KANOELEHUA DIESEL

			COST	LAND		
ULSD	BBL	GALLONS	EXCLUDE LT	TRANSP		
Balance at 04/30/2019	1,098.9	46,155.0	104,766.9	1,620.3		
Less: Est'd Inventory Addition	0.0	0	0.00	0.00		
Purchases: Estimate	0.0	0	0.00	0.00		
Actula	0.0	0	0.00	0.00		
Transfers out: Estimate		x	х	x		
Actula		Х	Х	х		
Transfers in: Estimate		0	0.00	0.00		
Actula		0	0.00	0.00		
Consumed: Estimate	104.2	4,377	967.04	26.58		
Actula	(92.4)	(3,882)	(5,388.70)	(360.20)		
Balance Per G/L 04/30/2019	1,110.7	46,650	100,345.22	1,286.63		
ULSD Purchases	0	0	0.00	0.00	#DIV/0!	
Estimated Purchases	190	-	-	-		
Transfer in	0	0	0.00	0.00		
Consumed	(38.8)	(1,630)	(967.04)	(26.58)	92.03	1.4744
Balance @ 05/31/2019	1,261.9	53,000	118,290.78	1,445.98		
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	1,261.9	53,000	118,290.78	1,445.98		
Reverse Fuel Balance	х	x	(118,290.78)	x		
Fuel Balance @ Avg Price	x	х	115,904.65	х		
Total @ 06/01/2019 Avg Price	1,261.9	53,000	115,904.65	1,445.98		
Weighted Avg Cost/BBL by Location			93.7399	1.1459		
Weighted Avg Cost/BBL @ Avg Cost			91.8490	1.1459		

Estimated Weighted Average May 2019

DISPERSED GENERATION

		ENERATION		
	BBL	GALLONS	COST	COST/BBL
Balance at 04/30/2019	139.7	5,869	13,795.07	
Less: Est'd Inven Addition	0.0	xxxxxxx	xxxxxxxx	
Purchases: Estimate Actual	, ,	(2,738) 2,738	•	
Consumed: Estimate Actual	25.4 (16.4)	1,067 (690)	2,298.60 (2,801.18)	
		xxxxxxxxxx xxxxxxxxxx		
		xxxxxxxxxx xxxxxxxxxx		
Balance Per G/L 04/30/2019	148.71	6,246	13,435.29	90.3430
Purchases	0.0	0	0.00	0.0000
Transfer out	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx	
Transfer in	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx	
Consumed	(1.7)	(72)	(157.77)	92.0300
Balance @ 05/31/2019	147.0	6,174	13,277.52	90.3233
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 05/31/2019	147.0	6,174	13,277.52	
Reverse Fuel Balance Fuel Balance @ Avg Price		xxxxxxxxxxx	(13,277.52) xxx 13,501.80 xxx	
Total @ 06/01/2019 Avg Price	147.0	6,174	13,501.80	91.8490

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

TYPE OF OIL BURNED

THE OF OIL BORNED	Hill Industrial		Puna Industrial	
INDUSTRIAL *	¢/MBTU	 \$/BBL	¢/MBTU	 \$/BBL
Tax ¹ Ocean Transportation Storage Wharfage Fees ²	67.52 50.72 31.16 6.43 0.83	4.2537 3.0793 2.1410 0.3900 0.0525	67.52 48.88 33.98 6.19 0.83	4.2537 3.0793 2.1410 0.3900 0.0525
	Hilo Die	esel	Waimea I	Diesel
DIESEL * Tax 1 Ocean Transportation Storage Wharfage Fees 2	¢/MBTU 103.03 52.55 28.34 6.66 1.79	\$/BBL 6.0371 3.0793 1.6606 0.3900 0.1050	¢/MBTU 103.03 52.55 28.34 6.66 1.79	\$/BBL 6.0371 3.0793 1.6606 0.3900 0.1050
	Kona Di	esel	CT3 Die	esel
	¢/MBTU	\$/BBL	¢/MBTU	\$/BBL
Tax ¹ Ocean Transportation Storage Wharfage Fees ²	103.03 52.55 28.34 6.66 1.79	6.0371 3.0793 1.6606 0.3900 0.1050	103.03 52.55 28.34 6.66 1.79	6.0371 3.0793 1.6606 0.3900 0.1050
	ULSI	D		
ULSD ** Tax ¹ Ocean Transportation Storage Wharfage Fees ²	¢/MBTU 26.38 0.00 0.00 0.00 1.83	\$/BBL 2.0211 0.0000 0.0000 0.0000 0.1050		

¹ Tax includes HGET, Hawaii Use Tax, Liquid Fuel Tax, LUST Tax and Environmental Response Tax.

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

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

² Fees include Custom Duty and Fed Oil Spill Recovery

^{*} Land Transportation Costs are shown in Attachment 3, Sheet 1.

^{**} ULSD includes Waimea, Kanoelehua, and Keahole.

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

		June 1, 2019 (¢/kWh)	Floor Rates (¢/kWh)
PGV (25 MW)	- on peak	16.368	6.560
PGV (22 MW)	- off peak	14.924	5.430
WAILUKU HYDRO	- on peak	16.368	7.240
	off peak	14.924	5.970
Other: (<100 KW)	Sch Q Rate	15.440	
		June 1, 2019 (¢/kWh)	Floor Rates (¢/kWh)
HEP		13.632	
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

June 1, 2019

Line No.	<u>Description</u>	<u>Amount</u>
1	Amount to be (returned) or collected	(\$1,745,900)
2	Monthly Amount (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 (June 1, 2019)	86,383 mwh
6	Adjustment (Line 4 / Line 5)	(0.739) ¢/kwh

2019 Cumulative Reconciliation Balance

	(1) YTD FOA		(2) FOA Rec Adjust	(3) FOA Rec Less	(4) Try to	(5)	(6) Month-end Cumulative
<u>Month</u>	Reconciliation	<u>Qtr</u>	<u>Variance</u>	<u>Variance</u>	<u>Collect</u>	<u>Collect</u>	<u>Balance</u>
January 18					(238,067)	(242,224)	1,462
February	825,100	[4]	(29,783)	854,883	(275,033)	(279,869)	576,476
March					(275,033)	(283,895)	292,581
April					(275,033)	(291,829)	752
May	1,153,900	(1)	(17,855)	1,171,755	(384,633)	(398,709)	773,798
June					(384,633)	(387,715)	386,083
July					(384,633)	(399,033)	(12,950)
August	699,900	[2]	(33,954)	733,854	(233,300)	(244,658)	476,246
September					(233,300)	(240,110)	236,136
October					(233,300)	(241,346)	(5,210)
November	917,000	[3]	(32,568)	949,568	(305,667)	(309,251)	635,107
December 1	8				(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)		
June					(581,967)		

NOTES:

Col(1):	Quarterly FOA reconciliation amounts. (I	Refer to Attachment 6)
	A positive number is an over-collection.	A negative number is ar

A positive number is an over-collection. A negative number is an under-collection. FOA reconciliation adjustment variance accumulated during the last three months,

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))

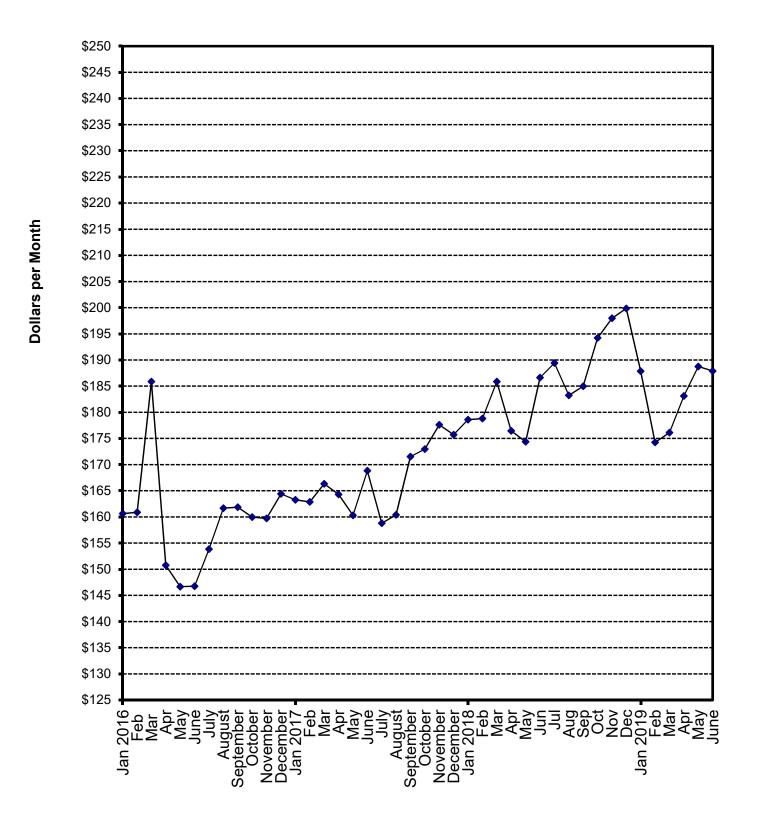
Col(3): FOA reconciliation generated in the current quarter. The YTD FOA reconciliation difference minus the adjustment variance. Col(1)-Col(2)

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

FUEL FACTOR CENTS / KWH

RESIDENTIAL & RESIDENTIAL BILL (\$)

<u>EFFECTIVE DATE</u>

COMMERCIAL @ 500 KWH @ 600 KWH

January 1, 2015 February 1, 2015 March 1, 2015 April 1, 2015 May 1, 2015 June 8, 2015 July 1, 2015 August 1, 2015 September 1, 2015 October 1, 2015 December 1, 2015	2.369 0.485 -0.519 -0.990 -0.420 -0.579 0.264 -0.586 -0.927 -1.671 -2.727 -2.859	189.62 179.22 174.32 170.37 175.10 175.16 178.14 174.16 172.43 168.73 163.20 162.59	227.20 214.71 208.85 204.10 209.79 209.85 213.38 208.61 206.54 202.10 195.47 194.74
January 1, 2016 February 1, 2016 March 1, 2016 April 1, 2016 May 1, 2016 June 1, 2016 July 1, 2016 August 1, 2016 September 1, 2016 October 1, 2016 November 1, 2016 December 1, 2016	-3.223 -2.962 -4.311 -4.715 -5.554 -5.546 -4.248 -3.094 -3.040 -3.427 -3.514 -2.584	160.63 160.87 154.26 150.76 146.66 146.74 153.85 161.67 161.85 159.97 159.72 164.41	192.41 192.69 184.76 180.57 175.64 175.74 184.31 193.69 193.90 191.65 191.35
January 1, 2017 February 1, 2017 March 1, 2017 April 1, 2017 May 1, 2017 June 1, 2017 July 1, 2017 August 1, 2017 September 1, 2017 October 1, 2017 November 1, 2017	-2.842 -2.956 -2.274 -2.425 -3.035 -1.343 -3.220 -3.643 -2.447 -2.131 -0.885 -1.405	163.27 162.87 166.31 164.31 160.30 168.82 158.79 160.39 171.52 172.97 177.60 175.02	195.58 195.09 199.24 196.83 192.02 202.25 190.22 192.15 205.50 207.23 212.80 209.69
January 1, 2018 February 1, 2018 March 1, 2018 April 1, 2018 May 1, 2018 June 1, 2018 July 1, 2018 August 1, 2018 September 1, 2018 October 1, 2018 November 1, 2018 December 1, 2018	-0.723 -0.579 0.816 -0.912 -0.452 2.301 2.831 1.665 2.027 8.359 8.913 9.292	178.59 178.81 185.87 176.46 174.38 186.65 189.43 183.25 184.98 194.21 197.99 199.86	213.95 214.22 222.68 211.39 208.90 223.63 226.97 219.55 221.62 232.50 237.04 239.29
January 1, 2019 February 1, 2019 March 1, 2019 April 1, 2019 May 1, 2019 June 1, 2019	6.867 14.631 14.976 16.469 17.396 17.318	187.86 174.25 176.1 183.12 188.74 187.89	224.86 208.53 210.75 219.17 225.93 224.90

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 5/1/2016 - 5/31/16	SOLARSAVER ADJUSTMENT PURCHASED POWER ADJUSTMENT CLAUSE	-0.2779 CENTS/KWH 1.8623 CENTS/KWH
5/1/2016	SOLARSAVER ADJUSTMENT CLAUSE 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 10/1/2016-10/31/16	PURCHASED POWER ADJUSTMENT CLAUSE PURCHASED POWER ADJUSTMENT CLAUSE	2.2824 CENTS/KWH 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 5/1/2017-5/31/17	SOLARSAVER ADJUSTMENT PURCHASED POWER ADJUSTMENT CLAUSE	-0.2462 CENTS/KWH 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 8/31/2017-4/3018	PURCHASED POWER ADJUSTMENT CLAUSE INTERIM RATE INCREASE 2016	2.7515 CENTS/KWH 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 04/1/18-04/30/18	PURCHASED POWER ADJUSTMENT CLAUSE PURCHASED POWER ADJUSTMENT CLAUSE	2.3258 CENTS/KWH 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 GREEN INFRASTRUCTURE FEE	1.6811 CENTS/KWH 1.2100 DOLLARS/MONTH
7/1/2018- 12/31/18 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/	
11/1/2018-11/30/18	PURCHASED POWER ADJUSTMENT CLAUSE	2.0617 CENTS/KWH
12/1/2018-12/31/18 1/1/2019-1/31/19	PURCHASED POWER ADJUSTMENT CLAUSE PURCHASED POWER ADJUSTMENT CLAUSE	2.0577 CENTS/KWH 2.0548 CENTS/KWH
1/1/2019-1/31/19	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 RBA RATE ADJUSTMENT	1.9474 CENTS/KWH 0.9069 CENTS/KWH
6/1/2019	VDW VAIE AD309 IMENT	U.3003 CEN I 3/NVM

^{**}Base charges include customer charge, demand charge, energy charge, power factor adjustment, voltage discount, and minimum charge.

Calculations of the Average Residential Customer Bill

Base Rates

Base Fuel Energy Charge Non-Fuel Energy Charge First 300 kWh per month Next 700 kWh per month Customer Charge Total Base Charges

Interim Rate Increase 2016 TY RBA Rate Adjustment Purchased Power Adj. Clause PBF Surcharge DSM Adjustment SolarSaver Adjustment Energy Cost Recovery Green Infrastructure Fee

Avg Residential Bill at 500 kwh

Rate					
	05/01/19	06/01/19			
effective date:	2/1/2019	2/1/2019			
¢/kwh	-	-			
¢/kwh					
¢/kwh	13.0289	13.0289			
¢/kwh	16.3807	16.3807			
\$	11.50	11.50			
% on base	0.0000%	0.0000%			
¢/kwh	1.0006	0.9069			
¢/kwh	1.9460	1.9474			
¢/kwh	0.4658	0.4658			
¢/kwh	0.0000	0.0000			
¢/kwh	0.0000	0.0000			
¢/kwh	17.3960	17.3180			
\$	1.3500	1.3500			

Charge (\$) at 500 Kwh				
05/01/19	06/01/19	Difference		
\$0.00	\$0.00	\$0.00		
\$71.85	\$71.85	\$0.00		
\$39.09	\$39.09	\$0.00		
\$32.76	\$32.76	\$0.00		
\$11.50	\$11.50	\$0.00		
\$83.35	\$83.35	\$0.00		
\$0.00	\$0.00	\$0.00		
\$5.00	\$4.53	-\$0.47		
\$9.73	\$9.74	\$0.01		
\$2.33	\$2.33	\$0.00		
\$0.00	\$0.00	\$0.00		
\$0.00	\$0.00	\$0.00		
\$86.98	\$86.59	-\$0.39		
\$1.35	\$1.35	\$0.00		
\$188.74	\$187.89			

Increase (Decrease -) % Change

-\$0.85 -0.45%

Base Rates

Base Fuel/Energy Charge Non-Fuel Energy Charge First 300 kWh per month Next 700 kWh per month Customer Charge Total Base Charges

Interim Rate Increase 2016 TY RBA Rate Adjustment Purchased Power Adj. Clause PBF Surcharge DSM Adjustment SolarSaver Adjustment Energy Cost Recovery Green Infrastructure Fee

Avg Residential Bill at 600 kwh

Rate					
	05/01/19	06/01/19			
effective date:	2/1/2019	2/1/2019			
¢/kwh	-	-			
¢/kwh					
¢/kwh	13.0289	13.0289			
¢/kwh	16.3807	16.3807			
\$	11.50	11.50			
0/ 00 5000	0.00000/	0.00000/			
% on base	0.0000%	0.0000%			
¢/kwh	1.0006	0.9069			
¢/kwh	1.9460	1.9474			
¢/kwh	0.4658	0.4658			
¢/kwh	0.0000	0.0000			
¢/kwh	0.0000	0.0000			
¢/kwh	17.3960	17.3180			
\$	1.3500	1.3500			

Charge (\$) at 600 Kwh		
05/01/19	06/01/19	Difference
\$0.00	\$0.00	\$0.00
\$88.23	\$88.23	\$0.00
\$39.09	\$39.09	\$0.00
\$49.14	\$49.14	\$0.00
\$11.50	\$11.50	\$0.00
\$99.73	\$99.73	\$0.00
\$0.00	\$0.00	\$0.00
\$6.00	\$5.44	-\$0.56
\$11.68	\$11.68	\$0.00
\$2.79	\$2.79	\$0.00
\$0.00	\$0.00	\$0.00
\$0.00	\$0.00	\$0.00
\$104.38	\$103.91	-\$0.47
\$1.35	\$1.35	\$0.00
\$225.93	\$224.90	

Increase (Decrease -) % Change

-\$1.03 -0.46%