



November 28, 2022

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

Dear Commissioners:

Subject: Hawaiian Electric Energy Cost Recovery Factor for December 2022

Hawaiian Electric Company, Inc.'s ("Hawaiian Electric" or "Company") December 2022 Energy Cost Recovery Factor is 28.053 cents per kilowatt-hour ("kWh"), a decrease of 0.415 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$224.90, a decrease of \$2.08 compared to rates effective November 1, 2022. The decrease in the residential typical bill is due to a decrease in the Energy Cost Recovery Factor (-\$2.07) and a decrease in the Purchase Power Adjustment Clause rate (-\$0.01).

The Company's fuel composite cost of major energy decreased 3.54 cents per million BTU to 2,483.09 cents per million BTU. The Company's composite cost of minor energy decreased 3.685 cents per kWh to 19.428 cents per kWh. The composite cost of purchased energy decreased 0.530 cents per kWh to 20.506 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 December 1, 2022.

Very truly yours,

/s/ Dean K. Matsuura

Dean K. Matsuura
Director, Regulatory Rate Proceedings

Attachments
cc: Division of Consumer Advocacy

Hawaiian Electric Company, Inc.
ENERGY COST RECOVERY FACTOR

	<u>Effective Dates</u>		<u>Change</u>
	<u>11/01/22</u>	<u>12/01/22</u>	
Composite Cost Of Major Energy, ¢/mmbtu	2,486.63	2,483.09	(3.54)
Composite Cost Of Minor Energy, ¢/kwh	23.113	19.428	(3.685)
Composite Cost Of Purchased Energy, ¢/kWh	21.036	20.506	(0.530)
 <u>Residential, Schedule "R"</u>			
Energy Cost Recovery, ¢/kWh	28.468	28.053	(0.415)
 <u>Others, Schedules "G,J,DS,P,F"</u>			
Energy Cost Recovery, ¢/kWh	28.468	28.053	(0.415)
 <u>Residential Customer with:</u>			
500 kWh Consumption, \$/bill	226.98	224.90	(2.08)
600 kWh Consumption, \$/bill	270.65	268.16	(2.49)

Supersedes Sheet Effective:

November 1, 2022

Hawaiian Electric Company, Inc.
ENERGY COST RECOVERY FILING

ENERGY COST RECOVERY (ECR) FILING - December 1, 2022 (page 1 of 2)

Line		
1	Effective Date	- December 1, 2022
2	Supercedes Factor	- November 1, 2022

GENERATION COMPONENT

MAJOR ENERGY COMPONENT				MINOR ENERGY COMPONENT				
FUEL PRICES, \$/mmbtu				Fuel Type				
3	Honolulu	0.00		32a	Airport DG	34.15	2.58%	0.8818
4	Kahe	2,483.09		32b	CIP-Biodiesel	0.00	0.00%	0.0000
5	Waiiau-Steam	2,483.09		32c	CT-1 (CIP) ULSD	(29.82)	-3.56%	1.0610
6	(Future Use)	0.00		32d	SGS - Biodiesel	28.97	41.28%	11.9579
7	(Future Use)	0.00		32e	SGS - ULSD	16.96	6.59%	1.1169
8	(Future Use)	0.00		32f	Waiiau-Diesel	48.87	9.02%	4.4103
9	Other	0		32g	West Loch PV	0.00	44.09%	0.0000
BTU MIX, %				32h COMPOSITE COST OF MINOR ENERGY, \$/kWh				
10	Honolulu	0.00		33 % Input to System kWh Mix				19.428
11	Kahe	79.30						1.08
12	Waiiau-Steam	20.70		34 WTD COMP MINOR ENERGY COST, \$/kWh (Lines 32h x 33)				
13	(Future Use)	0.00		35 2017 TY Loss Factor				0.20982
14	(Future Use)	0.00		36 WTD COMP MINOR ENERGY COST, \$/kWh (Line 34 x 35)				1.0490
15	(Future Use)	0.00		37 BASE MINOR ENERGY COMP COST				0.22010
16	Other	0.00		38 Base % Input to System kWh Mix				0.0000
100.00				39 WTD BASE MINOR ENERGY COST, \$/kWh (Line 37 x 38)				0.00000
17 COMPOSITE COST OF GENERATION, MAJOR ENERGY \$/mmbtu				40 2017 TY Loss Factor				1.0490
2,483.09				41 WTD COMP MINOR ENERGY COST, \$/kWh (Line 39 x 40)				0.00000
18 % Input to system kWh Mix				42 Cost Less Base (Line 36 - 41)				0.220101
53.34				43 Revenue Tax Adjustment (1 / (1-0.08885))				1.097514
EFFICIENCY FACTOR, mmbtu/kWh				44 MINOR ENERGY FACTOR, \$/kWh (Line 42 x 43)				0.24156
(A)	(B)	(C)	(D)					
		Percent of	Weighted					
Fuel Type	Eff Factor	Centrl Stn +	Eff Factor					
	mmbtu/kWh	Other						
19	LSFO	0.011142	100.00	0.011142				
20	(Future Use)	0.000000	0.00	0.000000				
21	(Future Use)	0.000000	0.00	0.000000				
22	Other	0.011142	0.00	0.000000				
(Lines 19 through 22): Col(B) x Col(C) = Col(D)								
23 Weighted Efficiency Factor, mmbtu/kWh								
[(lines 19(D) + 20(D) + 21(D) + 22(D))]				0.011142				
24 WEIGHTED MAJOR ENERGY COST, \$/kWh Sales (lines 17 x 18 x 23)				14.75736				
25 BASE MAJOR ENERGY COST, \$/mmbtu				0.00				
26 Base % Input to System kWh Mix				0.0000				
27 Efficiency Factor, Mbtu/kWh				0.000000				
28 WEIGHTED BASE MAJOR ENERGY COST \$/KWH Sales (lines 25 x 26 x 27)				0.00000				
29 Cost Less Base (Line 24 - 28)				14.75736				
30 Revenue Tax Adjustment (1 / (1-0.08885))				1.097514				
31 MAJOR ENERGY GENERATION FACTOR, \$/KWH (Line 29 x 30)				16.19641				

SUMMARY OF TOTAL GENERATION FACTOR, \$/kWh		
45 MAJOR ENERGY (line 31)		16.19641
46 MINOR ENERGY (line 44)	-	0.24156
47 TOTAL GENERATION FACTOR, \$/KWH (lines 45 + 46)	-	16.43797

Hawaiian Electric Company, Inc.
ENERGY COST RECOVERY FILING

ENERGY COST RECOVERY (ECR) FILING - December 1, 2022 (page 2 of 2)

Line	Effective Date	- December 1, 2022
1		
2	Supercedes Factor	- November 1, 2022

Line	PURCHASED ENERGY COMPONENT		Calculation of Monthly Fossil Fuel Cost Risk Sharing Component	
	PURCHASED ENERGY PRICE - FOSSIL - ¢/KWH			
48	PAR Hawaii - On Peak	24.114	Baseline LSFO	
49	PAR Hawaii - Off Peak	25.761	101 LSFO \$, baseline month	\$49,571,623
50	IES Downstream	0.000	102 LSFO mmbtu, baseline	3,000,521
51	Kalaeloa	23.251	103 Baseline LSFO, ¢/mmbtu	1652.10
52	AES-HI	0.000		
53				
	PURCHASED ENERGY PRICE - RENEWABLE - ¢/KWH		Baseline Diesel	
54	HRRV - On Peak	18.97	104 Diesel \$, baseline month	\$6,163,417
55	- Off Peak	18.42	105 Diesel mmbtu, baseline	349,008
56	HRRV - On Peak (excess)	12.08	106 Baseline Diesel, ¢/mmbtu	1,765.98
57	- Off Peak (excess)	7.25		
58	Kawaiioa Wind	23.42	Month LSFO	
59	Kahuku Wind	21.97	107 LSFO mmbtu, budget	2,950,553
60	Waianae Solar PV	14.50	108 LSFO Cost, ¢/mmbtu	2,483.09
61	As Available I	23.51	109 LSFO ECRC Fossil Cost	\$73,264,885
62	FIT	23.74	110 LSFO Base ECRC Recovery Target	\$48,746,096
63	CBRE PV	15.00	111 LSFO differential	\$24,518,789
64	Kawaiioa PV	12.73		
65	Lanikuhana PV	13.05	Month Diesel	
66	Waipio PV	12.18	112 Diesel mmbtu, budget	14,651
67	Na Pua Makani Wind	14.06	113 Diesel Cost, ¢/mmbtu	2,504.49
67.1	Milliani I Solar	0.00	114 Diesel ECRC Fossil Cost	\$366,942
67.2	Unused	0.00	115 Diesel Base ECRC Recovery Target	\$258,741
67.3	Unused	0.00	116 Diesel differential	\$108,201
67.4	Unused	0.00	117 Total Fossil	\$24,626,990
67.5	Unused	0.00	118 2% of above	\$492,540
67.6	Unused	0.00	118A Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year	\$2,500,000
	PURCHASED ENERGY KWH MIX - FOSSIL - %		118B Maximum Annual Cap (bi-directional)	\$2,500,000
68	PAR Hawaii - On Peak	0.22	118C Applicable Monthly Fossil Fuel Cost Risk Sharing	\$0
69	PAR Hawaii - Off Peak	0.16	118D Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month	\$2,500,000
70	IES Downstream	0.05	119 Fossil Cost Risk Sharing before taxes	\$0
71	Kalaeloa	59.47	120 Revenue Tax Adjustment	1,097,514
72	AES-HI	0.00	121 Fossil Cost Risk Sharing w/revenue tax	\$0
73			122 Forecasted Month MWh Sales	495,467
73a	Subtotal Fossil %	59.90	123 Fossil Fuel Cost Risk Sharing Component, ¢/kWh	0.0000
	PURCHASED ENERGY KWH MIX - RENEWABLE - %			
74	HRRV - On Peak	8.55		
75	- Off Peak	3.23		
76	HRRV - On Peak (excess)	0.00		
77	- Off Peak (excess)	2.63		
78	Kawaiioa Wind	5.00		
79	Kahuku Wind	3.33		
80	Waianae Solar PV	1.84		
81	As Available I	0.57	Derivation of Non-Adjustable Component:	
82	FIT	2.17	80A Fuel Handling Exp, \$000	\$7,604.5
83	CBRE PV	0.00	Final Settlement, HECO-603, p1	
84	Kawaiioa PV	3.16	80B Revenue Tax Adjustment	1,097,514
85	Lanikuhana PV	0.97	80C Non-Adj Revenues, \$000	\$8,346.0
86	Waipio PV	3.02	80D 2017 TY Sales, MWh	6,660,200
87	Na Pua Makani Wind	3.28	HECO-301, p1	
87.1	Milliani I Solar	2.35	80E Non-Adj Revenues, ¢/kWh	0.12531
87.2	Unused	0.00		
87.3	Unused	0.00		
87.4	Unused	0.00		
87.5	Unused	0.00		
87.6	Unused	0.00		
87a	Subtotal Renewable %	40.10		
87b	Total Purchased Energy %	100.00		
87c	Composite Cost of Purchased Energy, Fossil	23.24		
87d	Composite Cost of Purchased Energy, Renewable	16.42		
88	COMPOSITE COST OF PURCHASED ENERGY, ¢/KWH	20.506	Line SYSTEM COMPOSITE	
89	% Input to System kWh Mix	45.58	124 GEN AND PURCHASED ENERGY FACTOR, ¢/kWh (lines 47 + 100)	27.1987
90	WTD CMP PURCH ENRGY COST, ¢/KWH (lines 88 x 89)	9.34663	125 (Future Use) Adjustment, ¢/kWh	0.0000
91	2017 TY Loss Factor	1.0490	126 ECR Reconciliation Adjustment	0.7290
92	WTD CMP PURCH ENRGY COST, ¢/KWH (lines 90 x 91)	9.80461	127 Non-Adjustable Component (line 80E)	0.1253
93	BASE PURCHASED ENERGY COMPOSITE COST, ¢/KWH	0.0000	128 Fossil Fuel Cost Risk Sharing Component (line 123)	0.0000
94	Base % Input to System kWh Mix	0.0000	129 Monthly Energy Cost Recovery Factor (lines 124 + 125 + 126 + 127 + 128)	28.053
95	WEIGHTED BASE PURCHASED ENERGY COST, ¢/KWH SALES (lines 93 x 94)	0.00000		
96	2017 TY Loss Factor	1.049		
97	WTD CMP PURCH ENRGY COST, ¢/KWH sales (lines 95 x 96)	0.00000		
98	Cost Less Base (Line 92 - 97)	9.80461		
99	Revenue Tax Adjustment (1 / (1-0.08885))	1.097514		
100	PURCHASED ENERGY FACTOR, ¢/KWH (lines 98 x 99)	10.76070		

Hawaiian Electric Company, Inc.
FUEL OIL INVENTORY PRICES FOR December 1, 2022

	Honolulu	Kahe	Waiau
Average Low Sulfur Fuel Oil, ¢/Mbtu	2,481.79	2,481.79	2,481.79
Fuel Additive, ¢/Mbtu	-	1.30	1.30
Honolulu Trucking Cost, ¢/Mbtu	-	-	-
Low Sulfur Fuel Oil Prices Used For Filing, ¢/Mbtu	2,481.79	2,483.09	2,483.09
	Waiau	CIP Biodiesel	CIP Diesel
Average Diesel / Biodiesel Oil, ¢/Mbtu	2,608.71	-	2,779.88
Thruput Charges, ¢/Mbtu	-	-	0
Diesel / Biodiesel Oil Prices Used for Filing, ¢/Mbtu	2,608.71	-	2,779.88
	SGS ULSD	SGS Biodiesel	
Average Diesel / Biodiesel Oil, ¢/Mbtu	2,000.71	3,354.67	
Thruput Charges, ¢/Mbtu	-	-	
Diesel / Biodiesel Oil Prices Used for Filing, ¢/Mbtu	2,000.71	3,354.67	
	Honolulu	Kahe	Waiau
Average Low Sulfur Fuel Oil, \$/bbl	154.89	154.89	154.89
Fuel Additive, \$/bbl	-	0.08	0.08
Honolulu Trucking Cost, \$/bbl	-	-	-
Low Sulfur Fuel Oil Prices Used For Filing, \$/bbl	154.89	154.97	154.97
	Waiau	CIP Biodiesel	CIP Diesel
Average Diesel / Biodiesel Oil, \$/bbl	150.69	-	161.33
Thruput Charges, ¢/Mbtu	-	-	-
Diesel / Biodiesel Oil Prices Used for Filing, \$/bbl	150.69	-	161.33
	SGS ULSD	SGS Biodiesel	
Average Diesel / Biodiesel Oil, \$/bbl	115.96	177.76	
Thruput Charges, ¢/Mbtu	-	-	
Diesel / Biodiesel Oil Prices Used for Filing, \$/bbl	115.96	177.76	
Distibuted Generation Fuel Prices Used for Filing, ¢/kWh			34.150

FOAC December 1, 2022

LSFO	BARRELS	MBTU	AMOUNT	AVE \$/MBTU
Per FOAC run	998,720	6,233,223	154,695,746	24.817937
Additional	-	-	-	-
Forecast Amt	998,720	6,233,223	154,695,746	24.817937
	-	6.20	-	ADD'L BBL
	6,233,223	998,720	6.2412	MBTU / BBL
	154,695,746	998,720	154.89	DOLLARS / BBL
<u>WAI AU DIESEL</u>	37,106	214,336	5,591,414	26.087133
	5,591,414	37,106	150.69	DOLLARS / BBL
<u>CIP BIODIESEL</u>	-	-	-	-
	-	-	-	DOLLARS / BBL
<u>CIP DIESEL</u>	45,181	262,200	7,288,857	27.798820
	7,288,857	45,181	161.33	DOLLARS / BBL
<u>SGS ULSD</u>	426	2,469	49,400	20.007140
	49,399.63	426	115.96	DOLLARS / BBL
<u>SGS BIODIESEL</u>	5,053	26,774	898,173	33.5467125
	898,173	5,053	177.76	DOLLARS / BBL
FUEL ADDITIVE				0.013019
Additional				
Forecast Amt	-	-	-	0.013019
\$ / BBL =	-	-	0.08	DOLLARS / BBL
HONOLULU TRUCKING COST				
Per FOAC run	-	-	-	-
Additional				
Forecast Amt	-	-	-	-
\$ / BBL =	-	-	-	DOLLARS / BBL

HAWAIIAN ELECTRIC COMPANY, INC.
 DETERMINATION OF DISTRIBUTED GENERATION EXPENSE

<u>Line No.</u>		<u>Airport DG Biodiesel</u>	<u>Schofield Biodiesel</u>	<u>Schofield ULSD</u>			
(A)	\$	33.45	\$	33.55	\$	20.01	Estimated Distributed Generation Fuel Cost (\$/MBTU)
(B)		1,468		19,853		3110	Estimated MBTU Consumption
(B1)		280		3,783		543	Estimated fuel consumption barrels
(C) = (A) x (B)		\$49,115		\$665,988		\$62,222	Estimated Distributed Generation Fuel Cost (\$)
(D)		143,812		2,298,835		366,773	Estimated Distributed Generation kWh
(E) = ((C) ÷ (D)) x 100		<u>34.150</u>		<u>28.970</u>		<u>16.960</u>	¢/kWh

Hawaiian Electric Company, Inc.
ECA RECONCILIATION ADJUSTMENT
December 2022

1.	Amount to be collected	\$	9,873,900
2.	Monthly Amount (Line 1 x 1/3)	\$	3,291,300
3.	Revenue Tax Divisor		0.91115
4.	Total (Line 2 / Line 3)	\$	3,612,248
5.	Estimated MWh Sales (December 2022)		495,467
6.	ECA Reconciliation Adjustment, ¢/kWh (Line 4 ÷ Line 5)		<u><u>0.729</u></u>

HAWAIIAN ELECTRIC COMPANY, INC.
2022 Cumulative Reconciliation Balance

<u>Month</u>	(1) <u>YTD FOA Reconciliation</u>	<u>Qtr</u>	(2) <u>FOA Rec 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>
November 20	(3,466,900)	(3)	299,537	(3,766,437)	1,155,633	1,229,016	(2,275,255)
December					1,155,633	1,216,131	(1,059,124)
January 21					1,155,633	1,133,735	74,611
February	(1,005,100)	(4)	96,503	(1,101,603)	335,033	303,760	(723,232)
March					335,033	337,351	(385,881)
April					335,033	321,756	(64,125)
May	(5,736,000)	(1)	(50,854)	(5,685,146)	1,912,000	1,943,306	(3,805,965)
June					1,912,000	1,887,196	(1,918,769)
July					1,912,000	1,943,799	25,030
August	3,218,800	(2)	(6,775)	3,225,575	(1,072,933)	(1,069,958)	2,180,647
September					(1,072,933)	(1,036,068)	1,144,579
October					(1,072,933)	(1,070,373)	74,206
November	(6,273,400)	(3)	71,640	(6,345,040)	2,091,133	2,119,403	(4,151,431)
December					2,091,133	2,149,738	(2,001,693)
January 22					2,091,133	2,153,891	152,198
February	(13,004,400)	(4)	89,435	(13,093,835)	4,334,800	4,432,708	(8,508,928)
March					4,334,800	4,544,500	(3,964,428)
April					4,334,800	4,383,947	419,519
May	(17,597,500)	(1)	370,366	(17,967,866)	5,865,833	6,073,898	(11,474,449)
June					5,865,833	5,856,458	(5,617,991)
July					5,865,833	5,813,541	195,550
August	(7,276,200)	(2)	247,836	(7,524,036)	2,425,400	2,369,958	(4,958,528)
September					2,425,400	2,470,009	(2,488,519)
October					2,425,400	2,509,424	20,905
November	(9,873,900)	(3)	(63,125)	(9,810,775)	3,291,300		
December					3,291,300		

NOTES:

- Col(1): Quarterly FOA reconciliation amounts. (Refer to Attachment 4)
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))

Hawaiian Electric Company, Inc.
ENERGY COST RECOVERY FACTOR DATA

<u>EFFECTIVE DATE</u>	ENERGY COST FACTOR CENTS / KWH		RESIDENTIAL BILL (\$)	
	<u>RESIDENTIAL & COMMERCIAL</u>		<u>@ 500 KWH</u>	<u>@ 600 KWH</u>
January 1, 2019	14.095		161.36	191.85
February 1, 2019	12.044		147.31	175.01
March 1, 2019	13.449		154.51	183.63
April 1, 2019	14.338		158.42	188.34
May 1, 2019	14.721		163.56	194.50
June 1, 2019	15.199		163.47	194.39
July 1, 2019	14.545		160.95	191.42
August 1, 2019	14.297		160.45	190.82
September 1, 2019	13.240		155.11	184.42
October 1, 2019	12.951		153.64	182.65
November 1, 2019	12.778		150.18	178.51
December 1, 2019	12.409		148.41	176.37
January 1, 2020	13.629		155.97	185.42
February 1, 2020	14.648		161.90	192.54
March 1, 2020	14.349		160.64	191.02
April 1, 2020	13.071		153.83	182.86
May 1, 2020	11.735		148.21	176.12
June 1, 2020	10.875		142.16	168.84
July 1, 2020	10.128		137.84	163.68
August 1, 2020	9.274		133.06	157.94
September 1, 2020	10.220		137.57	163.36
October 1, 2020	10.589		139.36	165.49
November 1, 2020	10.850		138.03	163.91
December 1, 2020	10.624		136.57	162.15
January 1, 2021	11.355		140.57	166.94
February 1, 2021	11.812		145.00	172.25
March 1, 2021	12.304		147.49	175.24
April 1, 2021	11.919		145.53	172.89
May 1, 2021	13.135		152.07	180.74
June 1, 2021	13.711		157.85	187.70
July 1, 2021	15.014		164.69	195.91
August 1, 2021	14.076		162.12	192.82
September 1, 2021	14.227		162.82	193.65
October 1, 2021	14.327		163.32	194.25
November 1, 2021	15.767		166.60	198.20
December 1, 2021	16.061		167.92	199.78
January 1, 2022	16.480		173.80	206.83
February 1, 2022	17.752		180.80	215.21
March 1, 2022	18.629		184.44	219.58
April 1, 2022	20.489		194.70	231.88
May 1, 2022	23.241		208.73	248.73
June 1, 2022	24.081		212.86	253.68
July 1, 2022	25.791		221.66	264.25
August 1, 2022	26.477		228.13	272.05
September 1, 2022	29.852		236.79	282.45
October 1, 2022	29.205		233.52	278.51
November 1, 2022	28.468		226.98	270.65
December 1, 2022	28.053		224.90	268.16

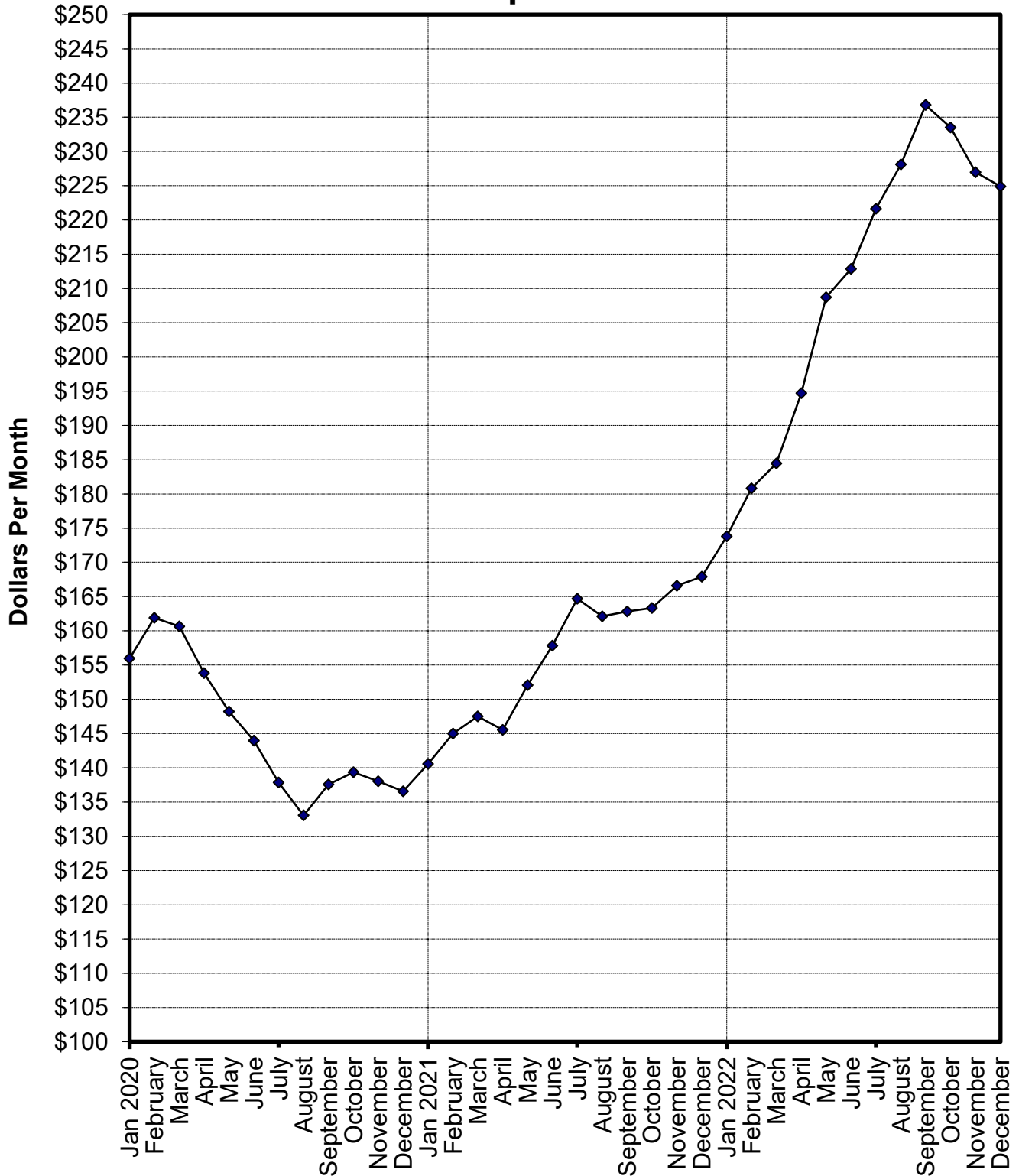
Hawaiian Electric Company, Inc.
RESIDENTIAL SURCHARGE DATA

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
9/1/2018	FINAL RATE INCREASE (TY2017) -0.039% EFFECTIVE 09/01/18, DOCKET NO. 2016-0328	
5/1/2021-3/31/2022	SOLAR SAVER ADJUSTMENT	0.0000 CENTS/KWH
5/1/2021-7/31/2021	RESIDENTIAL DEMAND RESPONSE ADJUSTMENT CLAUSE (DRAC)	-0.0008 CENTS/KWH
5/1/2021-7/31/2021	RESIDENTIAL DSM ADJUSTMENT	-0.0233 CENTS/KWH
6/1/2021-6/30/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.5442 CENTS/KWH
6/1/2021-12/31/2021	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.1469 CENTS/KWH
7/1/2021-7/31/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.5615 CENTS/KWH
7/1/2021-12/31/2021	GREEN INFRASTRUCTURE FEE	1.19 DOLLARS/MONTH
7/1/2021-6/30/2022	RESID. PBF SURCHARGE ADJUSTMENT	0.6478 CENTS/KWH
8/1/2021-8/31/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.7556 CENTS/KWH
8/1/2021-10/31/2021	RESIDENTIAL DEMAND RESPONSE ADJUSTMENT CLAUSE (DRAC)	-0.0020 CENTS/KWH
8/1/2021-10/31/2021	RESIDENTIAL DSM ADJUSTMENT	0.2201 CENTS/KWH
8/1/2021-7/31/2022	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0158 CENTS/KWH
9/1/2021-9/30/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.7433 CENTS/KWH
10/1/2021-10/31/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.7430 CENTS/KWH
11/1/2021-1/31/2022	RESIDENTIAL DEMAND RESPONSE ADJUSTMENT CLAUSE (DRAC)	-0.0094 CENTS/KWH
11/1/2021-1/31/2022	RESIDENTIAL DSM ADJUSTMENT	-0.0370 CENTS/KWH
11/1/2021-11/30/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.2269 CENTS/KWH
12/1/2021-12/31/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.1952 CENTS/KWH
1/1/2022-1/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.1382 CENTS/KWH
1/1/2022-6/30/2022	GREEN INFRASTRUCTURE FEE	1.25 DOLLARS/MONTH
1/1/2022-5/31/2022	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.9505 CENTS/KWH
2/1/2022-2/28/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.1172 CENTS/KWH
2/1/2022-4/30/2022	RESIDENTIAL DEMAND RESPONSE ADJUSTMENT CLAUSE (DRAC)	-0.0089 CENTS/KWH
2/1/2022-4/30/2022	RESIDENTIAL DSM ADJUSTMENT	0.1082 CENTS/KWH
3/1/2022-3/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE	1.9689 CENTS/KWH
4/1/2022-4/30/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.1650 CENTS/KWH
4/1/2022-4/30/2022	SOLAR SAVER ADJUSTMENT	-0.0064 CENTS/KWH
5/1/2022-7/31/2022	RESIDENTIAL DEMAND RESPONSE ADJUSTMENT CLAUSE (DRAC)	-0.0045 CENTS/KWH
5/1/2022-7/31/2022	RESIDENTIAL DSM ADJUSTMENT	-0.2047 CENTS/KWH
5/1/2022-5/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.5226 CENTS/KWH
5/1/2022	SOLAR SAVER ADJUSTMENT	0.0000 CENTS/KWH
6/1/2022-6/30/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.5505 CENTS/KWH
6/1/2022	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.9085 CENTS/KWH
7/1/2022	GREEN INFRASTRUCTURE FEE	1.18 DOLLARS/MONTH
7/1/2022-7/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.6139 CENTS/KWH
7/1/2022	RESID. PBF SURCHARGE ADJUSTMENT	0.6488 CENTS/KWH
8/1/2022-8/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.8647 CENTS/KWH
8/1/2022-10/31/2022	RESIDENTIAL DEMAND RESPONSE ADJUSTMENT CLAUSE (DRAC)	-0.0052 CENTS/KWH
8/1/2022-10/31/2022	RESIDENTIAL DSM ADJUSTMENT	0.1567 CENTS/KWH
8/1/2022	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0168 CENTS/KWH
9/1/2022-9/30/2022	PURCHASED POWER ADJUSTMENT CLAUSE	1.2229 CENTS/KWH
10/1/2022-10/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE	1.2139 CENTS/KWH
11/1/2022-11/30/2022	PURCHASED POWER ADJUSTMENT CLAUSE	0.8391 CENTS/KWH
11/1/2022	RESIDENTIAL DEMAND RESPONSE ADJUSTMENT CLAUSE (DRAC)	-0.0075 CENTS/KWH
11/1/2022	RESIDENTIAL DSM ADJUSTMENT	-0.0375 CENTS/KWH
12/1/2022	PURCHASED POWER ADJUSTMENT CLAUSE	0.8385 CENTS/KWH

~ Surcharges currently in effect are in bold.

~ Base charges include customer charge, demand charge, energy charge, power factor adjustment, voltage discount and minimum charge.

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



Hawaiian Electric Company, Inc.
CALCULATIONS OF THE AVERAGE RESIDENTIAL CUSTOMER BILL

	Rate		Charge (\$) at 500 kWh			
	11/1/2022	12/1/2022	11/1/2022	12/1/2022	Difference	
Base Rates	effective date:	01/01/19	01/01/19			
Base Fuel/Energy Charge	¢/kWh	-	-	0.00	0.00	0.00
Non-fuel Fuel Energy Charge						
First 350 kWh per month	¢/kWh	10.6812	10.6812	37.38	37.38	0.00
Next 850 kWh per month	¢/kWh	11.8347	11.8347	17.75	17.75	0.00
Customer Charge	\$	11.50	11.50	11.50	11.50	0.00
Total Base Charges			66.63	66.63	0.00	
Purchase Power Adjustment	¢/kWh	0.8391	0.8385	4.20	4.19	-0.01
RBA Rate Adjustment	¢/kWh	1.9085	1.9085	9.54	9.54	0.00
DSM Adjustment	¢/kWh	-0.0375	-0.0375	-0.19	-0.19	0.00
Demand Response Adjustment Clause	¢/kWh	-0.0075	-0.0075	-0.04	-0.04	0.00
Interim Rate Increase (TY 2017)	% on base	0.000%	0.000%	0.00	0.00	0.00
Refund of 2011 Interim	% on base	0.000%	0.000%	0.00	0.00	0.00
PBF Surcharge	¢/kWh	0.6488	0.6488	3.24	3.24	0.00
Renewable Energy Infrastructure Cost Recovery Provision	¢/kWh	0.0168	0.0168	0.08	0.08	0.00
SolarSaver Adjustment	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
Energy Cost Recovery	¢/kWh	28.468	28.053	142.34	140.27	-2.07
Green Infrastructure Fee	\$	1.18	1.18	1.18	1.18	0.00
Avg Residential Bill at 500 kWh			226.98	224.90		

Increase / (Decrease -) -2.08
% Change -0.92%

	Rate		Charge (\$) at 600 kWh			
	11/1/2022	12/1/2022	11/1/2022	12/1/2022	Difference	
Base Rates	effective date:	01/01/19	01/01/19			
Base Fuel/Energy Charge	¢/kWh	-	-	0.00	0.00	0.00
Non-fuel Fuel Energy Charge						
First 350 kWh per month	¢/kWh	10.6812	10.6812	37.38	37.38	0.00
Next 850 kWh per month	¢/kWh	11.8347	11.8347	29.59	29.59	0.00
Customer Charge	\$	11.50	11.50	11.50	11.50	0.00
Total Base Charges			78.47	78.47	0.00	
Purchase Power Adjustment	¢/kWh	0.8391	0.8385	5.03	5.03	0.00
RBA Rate Adjustment	¢/kWh	1.9085	1.9085	11.45	11.45	0.00
DSM Adjustment	¢/kWh	-0.0375	-0.0375	-0.23	-0.23	0.00
Demand Response Adjustment Clause	¢/kWh	-0.0075	-0.0075	-0.05	-0.05	0.00
Interim Rate Increase (TY 2017)	% on base	0.000%	0.000%	0.00	0.00	0.00
Refund of 2011 Interim	% on base	0.000%	0.000%	0.00	0.00	0.00
PBF Surcharge	¢/kWh	0.6488	0.6488	3.89	3.89	0.00
Renewable Energy Infrastructure Cost Recovery Provision	¢/kWh	0.0168	0.0168	0.10	0.10	0.00
SolarSaver Adjustment	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
Energy Cost Recovery	¢/kWh	28.468	28.053	170.81	168.32	-2.49
Green Infrastructure Fee	\$	1.18	1.18	1.18	1.18	0.00
Avg Residential Bill at 600 kWh			270.65	268.16		

Increase / (Decrease -) -2.49
% Change -0.92%

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To: Oya, Tyler
Subject: Hawaii PUC eFiling Confirmation of Filing

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