



August 29, 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 September 2022

Hawaiian Electric Company, Inc.'s ("Hawaiian Electric" or "Company") September 2022 Energy Cost Recovery Factor is 29.852 cents per kilowatt-hour ("kWh"), an increase of 3.375 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$236.79, an increase of \$8.66 compared to rates effective August 1, 2022. The increase in the residential typical bill is due to an increase in the Energy Cost Recovery Factor (+\$16.87), which is partially offset by a decrease in the Purchase Power Adjustment Clause rate (-\$8.21).

The Company's fuel composite cost of major energy decreased 117.48 cents per million BTU to 2,735.13 cents per million BTU. The Company's composite cost of minor energy decreased 0.048 cents per kWh to 22.635 cents per kWh. The composite cost of purchased energy increased 5.397 cents per kWh to 20.292 cents per kWh. The increase in the composite cost of purchased energy is driven by the closure of the coal plant operated by AES Hawaii, LLC.

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 September 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>08/01/22</u>	<u>09/01/22</u>	
Composite Cost Of Major Energy, ¢/mmbtu	2,852.61	2,735.13	(117.48)
Composite Cost Of Minor Energy, ¢/kwh	22.683	22.635	(0.048)
Composite Cost Of Purchased Energy, ¢/kWh	14.895	20.292	5.397
 <u>Residential, Schedule "R"</u>			
Energy Cost Recovery, ¢/kWh	26.477	29.852	3.375
 <u>Others, Schedules "G,J,DS,P,F"</u>			
Energy Cost Recovery, ¢/kWh	26.477	29.852	3.375
 <u>Residential Customer with:</u>			
500 kWh Consumption, \$/bill	228.13	236.79	8.66
600 kWh Consumption, \$/bill	272.05	282.45	10.40

Supersedes Sheet Effective:

August 1, 2022

Hawaiian Electric Company, Inc.  
ENERGY COST RECOVERY FILING

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

Line	Effective Date	- September 1, 2022
2	Supercedes Factor	- August 1, 2022

**GENERATION COMPONENT**

MAJOR ENERGY COMPONENT				MINOR ENERGY COMPONENT				
FUEL PRICES, \$/mmbtu				Fuel Type	Gen Cost \$/KWH	Percent of Minor Energy	Weighted Gen Cost \$/KWH	
3	Honolulu		0.00	32a Airport DG	35.90	2.95%	1.0601	
4	Kahe		2,735.13	32b CIP-Biodiesel	0.00	0.00%	0.0000	
5	Waiau-Steam		2,735.13	32c CT-1 (CIP) ULSD	66.87	5.86%	3.9200	
6	(Future Use)		0.00	32d SGS - Biodiesel	31.68	24.36%	7.7171	
7	(Future Use)		0.00	32e SGS - ULSD	16.98	2.76%	0.4688	
8	(Future Use)		0.00	32f Waiau-Diesel	40.73	23.25%	9.4693	
9	Other		0	32g West Loch PV	0.00	40.82%	0.0000	
BTU MIX, %				32h COMPOSITE COST OF MINOR ENERGY, \$/kWh				
10	Honolulu		0.00	33 % Input to System kWh Mix			22.635	
11	Kahe		69.59				1.51	
12	Waiau-Steam		30.41	34 WTD COMP MINOR ENERGY COST, \$/kWh (Lines 32h x 33)				
13	(Future Use)		0.00				0.34179	
14	(Future Use)		0.00	35 2017 TY Loss Factor			1.0490	
15	(Future Use)		0.00	36 WTD COMP MINOR ENERGY COST, \$/kWh (Line 34 x 35)			0.35854	
16	Other		0.00	37 BASE MINOR ENERGY COMP COST			0.0000	
100.00				38 Base % Input to System kWh Mix			0.0000	
17 COMPOSITE COST OF GENERATION, MAJOR ENERGY \$/mmbtu				2,735.13	39 WTD BASE MINOR ENERGY COST, \$/kWh (Line 37 x 38)			0.00000
18 % Input to system kWh Mix				59.17	40 2017 TY Loss Factor			1.0490
EFFICIENCY FACTOR, mmbtu/kWh				41 WTD COMP MINOR ENERGY COST, \$/kWh (Line 39 x 40)				0.00000
(A)	(B)	(C)	(D)	42 Cost Less Base (Line 36 - 41)				0.358538
		Percent of Centrl Stn + Other	Weighted Eff Factor	43 Revenue Tax Adjustment (1 / (1-0.08885))				1.097514
Fuel Type	Eff Factor mmbtu/kwh			44 MINOR ENERGY FACTOR, \$/kWh (Line 42 x 43)				0.39350
19	LSFO	100.00	0.011142					
20	(Future Use)	0.00	0.000000					
21	(Future Use)	0.00	0.000000					
22	Other	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)				18.03195				
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)				18.03195				
30 Revenue Tax Adjustment (1 / (1-0.08885))				1.097514				
31 MAJOR ENERGY GENERATION FACTOR, \$/KWH (Line 29 x 30)				19.79032				

SUMMARY OF TOTAL GENERATION FACTOR, \$/kWh		
45 MAJOR ENERGY (line 31)		19.79032
46 MINOR ENERGY (line 44)	-	0.39350
47 TOTAL GENERATION FACTOR, \$/KWH (lines 45 + 46)	-	20.18382

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

Line	Effective Date	- September 1, 2022
2	Supercedes Factor	- August 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	26.303	
49	PAR Hawaii	- Off Peak	27.674	
50	IES Downstream		0.000	
51	Kalaeloa		23.715	
52	AES-HI		0.000	
53				
	PURCHASED ENERGY PRICE - RENEWABLE - \$/KWH			
54	HRRV	- On Peak	18.97	
55		- Off Peak	18.42	
56	HRRV	- On Peak (excess)	12.08	
57		- Off Peak (excess)	7.25	
58	Kawailoa Wind		23.42	
59	Kahuku Wind		21.97	
60	Waianae Solar PV		14.50	
61	As Available I		23.51	
62	FIT		23.74	
63	CBRE PV		15.00	
64	Kawailoa PV		12.73	
65	Lanikuhana PV		13.05	
66	Waipio PV		12.18	
67	Na Pua Makani Wind		14.06	
67.1	Milliani I Solar		0.00	
67.2	Unused		0.00	
67.3	Unused		0.00	
67.4	Unused		0.00	
67.5	Unused		0.00	
67.6	Unused		0.00	
	PURCHASED ENERGY KWH MIX - FOSSIL - %			
68	PAR Hawaii	- On Peak	0.23	
69	PAR Hawaii	- Off Peak	0.17	
70	IES Downstream		0.05	
71	Kalaeloa		53.71	
72	AES-HI		0.00	
73				
73a	Subtotal Fossil %		54.15	
	PURCHASED ENERGY KWH MIX - RENEWABLE - %			
74	HRRV	- On Peak	9.05	
75		- Off Peak	3.41	
76	HRRV	- On Peak (excess)	0.00	
77		- Off Peak (excess)	2.52	
78	Kawailoa Wind		5.52	
79	Kahuku Wind		2.71	
80	Waianae Solar PV		2.61	
81	As Available I		0.82	
82	FIT		3.03	
83	CBRE PV		0.02	
84	Kawailoa PV		4.71	
85	Lanikuhana PV		1.39	
86	Waipio PV		4.33	
87	Na Pua Makani Wind		3.04	
87.1	Milliani I Solar		2.67	
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 %		45.85	
87b	Total Purchased Energy %		100.00	
87c	Composite Cost of Purchased Energy, Fossil		23.72	
87d	Composite Cost of Purchased Energy, Renewable		16.25	
88	COMPOSITE COST OF PURCHASED ENERGY, \$/KWH		20.292	
89	% Input to System kWh Mix		39.32	
90	WTD CMP PURCH ENRGY COST, \$/KWH (lines 88 x 89)		7.97881	
91	2017 TY Loss Factor		1.0490	
92	WTD CMP PURCH ENRGY COST, \$/KWH (lines 90 x 91)		8.36977	
93	BASE PURCHASED ENERGY COMPOSITE COST, \$/KWH		0.000	
94	Base % Input to System kWh Mix		0.0000	
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)		8.36977	
99	Revenue Tax Adjustment (1 / (1-0.08885))		1.097514	
100	PURCHASED ENERGY FACTOR, \$/KWH (lines 98 x 99)		9.18594	
101	Baseline LSFO			\$49,571,623
102	LSFO \$, baseline month			3,000,521
103	LSFO mmbtu, baseline			1652.10
104	Baseline Diesel			\$6,163,417
105	Diesel \$, baseline month			349,008
106	Diesel mmbtu, baseline			1,765.98
107	Month LSFO			3,624,793
108	LSFO mmbtu, budget			2,735.13
109	LSFO Cost, \$/mmbtu			\$99,142,814
110	LSFO ECRC Fossil Cost			\$59,885,226
111	LSFO Base ECRC Recovery Target			\$39,257,588
112	LSFO differential			
113	Month Diesel			51,311
114	Diesel mmbtu, budget			2,310.02
115	Diesel Cost, \$/mmbtu			\$1,185,295
116	Diesel ECRC Fossil Cost			\$906,142
117	Diesel Base ECRC Recovery Target			\$279,153
118	Diesel differential			
119	Total Fossil			\$39,536,740
120	2% of above			\$790,735
121	118A Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year			\$1,848,838
122	118B Maximum Annual Cap (bi-directional)			\$2,500,000
123	118C Applicable Monthly Fossil Fuel Cost Risk Sharing			\$651,162
124	118D Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month			\$2,500,000
125	119 Fossil Cost Risk Sharing before taxes			\$651,162
126	120 Revenue Tax Adjustment			1,097,514
127	121 Fossil Cost Risk Sharing w/revenue tax			\$714,660
128	122 Forecasted Month MWh Sales			545,612
129	123 Fossil Fuel Cost Risk Sharing Component, c/kWh			-0.1310
	Derivation of Non-Adjustable Component:			
80A	Fuel Handling Exp, \$000			\$7,604.5
80B	Final Settlement, HECO-603, p1			
80C	Revenue Tax Adjustment			1,097,514
80D	Non-Adj Revenues, \$000			\$8,346.0
80E	2017 TY Sales, MWh			6,660,200
	HECO-301, p1			
	Non-Adj Revenues, \$/kWh			0.12531
	Line SYSTEM COMPOSITE			
124	GEN AND PURCHASED ENERGY FACTOR, \$/kWh (lines 47 + 100)			29.3698
125	(Future Use) Adjustment, \$/kWh			0.0000
126	ECR Reconciliation Adjustment			0.4880
127	Non-Adjustable Component (line 80E)			0.1253
128	Fossil Fuel Cost Risk Sharing Component (line 123)			-0.1310
129	Monthly Energy Cost Recovery Factor (lines 124 + 125 + 126 + 127 + 128)			29.852

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

	<u>Honolulu</u>	<u>Kahe</u>	<u>Waiau</u>
Average Low Sulfur Fuel Oil, ¢/Mbtu	2,733.83	2,733.83	2,733.83
Fuel Additive, ¢/Mbtu	-	1.30	1.30
Honolulu Trucking Cost, ¢/Mbtu	-	-	-
Low Sulfur Fuel Oil Prices Used For Filing, ¢/Mbtu	2,733.83	2,735.13	2,735.13
	<u>Waiau</u>	<u>CIP Biodiesel</u>	<u>CIP Diesel</u>
Average Diesel / Biodiesel Oil, ¢/Mbtu	2,203.66	-	2,670.84
Thruput Charges, ¢/Mbtu	-	-	0
Diesel / Biodiesel Oil Prices Used for Filing, ¢/Mbtu	2,203.66	-	2,670.84
	<u>SGS ULSD</u>	<u>SGS Biodiesel</u>	
Average Diesel / Biodiesel Oil, ¢/Mbtu	2,000.71	3,674.56	
Thruput Charges, ¢/Mbtu	-	-	
Diesel / Biodiesel Oil Prices Used for Filing, ¢/Mbtu	2,000.71	3,674.56	
	<u>Honolulu</u>	<u>Kahe</u>	<u>Waiau</u>
Average Low Sulfur Fuel Oil, \$/bbl	170.95	170.95	170.95
Fuel Additive, \$/bbl	-	0.08	0.08
Honolulu Trucking Cost, \$/bbl	-	-	-
Low Sulfur Fuel Oil Prices Used For Filing, \$/bbl	170.95	171.03	171.03
	<u>Waiau</u>	<u>CIP Biodiesel</u>	<u>CIP Diesel</u>
Average Diesel / Biodiesel Oil, \$/bbl	127.97	-	154.78
Thruput Charges, ¢/Mbtu	-	-	-
Diesel / Biodiesel Oil Prices Used for Filing, \$/bbl	127.97	-	154.78
	<u>SGS ULSD</u>	<u>SGS Biodiesel</u>	
Average Diesel / Biodiesel Oil, \$/bbl	115.96	193.56	
Thruput Charges, ¢/Mbtu	-	-	
Diesel / Biodiesel Oil Prices Used for Filing, \$/bbl	115.96	193.56	
Distributed Generation Fuel Prices Used for Filing, ¢/kWh			35.900

**FOAC September 1, 2022**

<b><u>LSFO</u></b>	<b>BARRELS</b>	<b>MBTU</b>	<b>AMOUNT</b>	<b>AVE \$/MBTU</b>
Per FOAC run	1,180,023	7,378,986	201,728,746	27.338274
Additional	-	-	-	-
<b>Forecast Amt</b>	<b>1,180,023</b>	<b>7,378,986</b>	<b>201,728,746</b>	<b>27.338274</b>
	-	6.20	-	ADD'L BBL
	7,378,986	1,180,023	6.2533	MBTU / BBL
	201,728,746	1,180,023	170.95	DOLLARS / BBL
<b><u>WAI AU DIESEL</u></b>	22,325	129,646	2,856,956	22.036588
	2,856,956	22,325	127.97	DOLLARS / BBL
<b><u>CIP BIODIESEL</u></b>	-	-	-	-
	-	-	-	DOLLARS / BBL
<b><u>CIP DIESEL</u></b>	71,276	413,065	11,032,328	26.708431
	11,032,328	71,276	154.78	DOLLARS / BBL
<b><u>SGS ULSD</u></b>	426	2,469	49,400	20.007140
	49,399.63	426	115.96	DOLLARS / BBL
<b><u>SGS BIODIESEL</u></b>	6,025	31,738	1,166,229	36.74563864
	1,166,229	6,025	193.56	DOLLARS / BBL
<b>FUEL ADDITIVE</b>				0.013019
Additional				
<b>Forecast Amt</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.013019</b>
<b>\$ / BBL =</b>	<b>-</b>	<b>-</b>	<b>0.08</b>	<b>DOLLARS / BBL</b>
<b>HONOLULU TRUCKING COST</b>				
Per FOAC run	-	-	-	-
Additional				
<b>Forecast Amt</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>\$ / BBL =</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>DOLLARS / BBL</b>

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)	\$	35.16	\$	36.75	\$	20.01	Estimated Distributed Generation Fuel Cost (\$/MBTU)
(B)		2,579		17,962		2004	Estimated MBTU Consumption
(B1)		491		3,423		350	Estimated fuel consumption barrels
(C) = (A) x (B)		\$90,667		\$660,010		\$40,095	Estimated Distributed Generation Fuel Cost (\$)
(D)		252,574		2,083,454		236,156	Estimated Distributed Generation kWh
(E) = ((C) ÷ (D)) x 100		<u>35.900</u>		<u>31.680</u>		<u>16.980</u>	¢/kWh

**Hawaiian Electric Company, Inc.**  
**ECA RECONCILIATION ADJUSTMENT**  
**September 2022**

1.	Amount to be collected	\$	7,276,200
2.	Monthly Amount (Line 1 x 1/3)	\$	2,425,400
3.	Revenue Tax Divisor		0.91115
4.	Total (Line 2 / Line 3)	\$	2,661,911
5.	Estimated MWh Sales (September 2022)		545,612
6.	ECA Reconciliation Adjustment, ¢/kWh (Line 4 ÷ Line 5)		<u><u>0.488</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		
September					2,425,400		

**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>	<u>ENERGY COST FACTOR</u>		<u>RESIDENTIAL BILL (\$)</u>	
	<u>CENTS / KWH</u>	<u>RESIDENTIAL &amp; 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

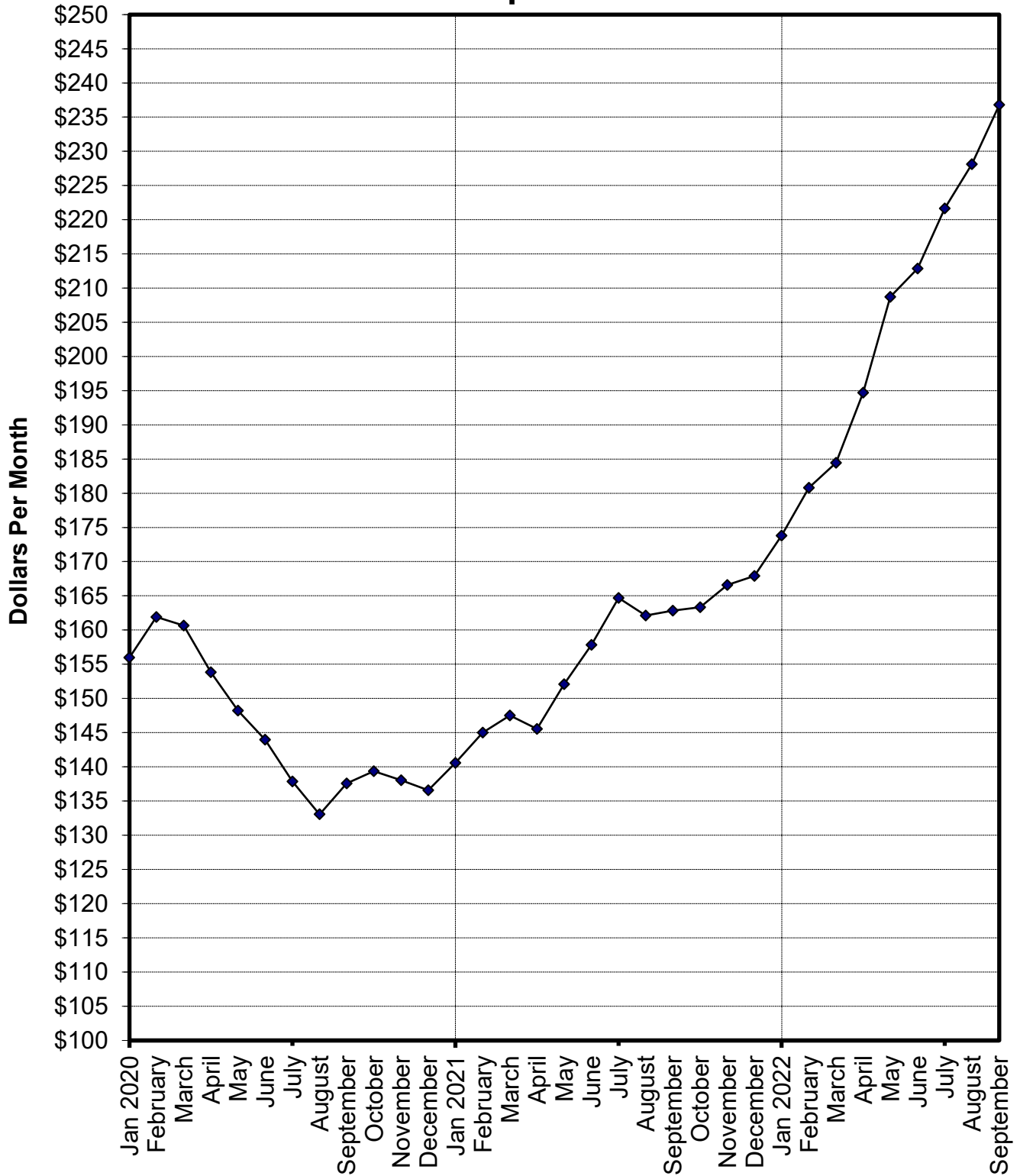
**Hawaiian Electric Company, Inc.  
RESIDENTIAL SURCHARGE DATA**

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
<b>9/1/2018</b>	<b>FINAL RATE INCREASE (TY2017) -0.039% EFFECTIVE 09/01/18, DOCKET NO. 2016-0328</b>	
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
<b>5/1/2022</b>	<b>SOLAR SAVER ADJUSTMENT</b>	<b>0.0000 CENTS/KWH</b>
6/1/2022-6/30/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.5505 CENTS/KWH
<b>6/1/2022</b>	<b>REVENUE BALANCING ACCOUNT RATE ADJUSTMENT</b>	<b>1.9085 CENTS/KWH</b>
<b>7/1/2022</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.18 DOLLARS/MONTH</b>
7/1/2022-7/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.6139 CENTS/KWH
<b>7/1/2022</b>	<b>RESID. PBF SURCHARGE ADJUSTMENT</b>	<b>0.6488 CENTS/KWH</b>
8/1/2022-8/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.8647 CENTS/KWH
<b>8/1/2022</b>	<b>RESIDENTIAL DEMAND RESPONSE ADJUSTMENT CLAUSE (DRAC)</b>	<b>-0.0052 CENTS/KWH</b>
<b>8/1/2022</b>	<b>RESIDENTIAL DSM ADJUSTMENT</b>	<b>0.1567 CENTS/KWH</b>
<b>8/1/2022</b>	<b>RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION</b>	<b>0.0168 CENTS/KWH</b>
<b>9/1/2022</b>	<b>PURCHASED POWER ADJUSTMENT CLAUSE</b>	<b>1.2229 CENTS/KWH</b>

~ 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			
	8/1/2022	9/1/2022	8/1/2022	9/1/2022	Difference	
<b>Base Rates</b>	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
<b>Total Base Charges</b>				66.63	66.63	0.00
<b>Purchase Power Adjustment</b>	¢/kWh	2.8647	1.2229	14.32	6.11	-8.21
<b>RBA Rate Adjustment</b>	¢/kWh	1.9085	1.9085	9.54	9.54	0.00
<b>DSM Adjustment</b>	¢/kWh	0.1567	0.1567	0.78	0.78	0.00
<b>Demand Response Adjustment Clause</b>	¢/kWh	-0.0052	-0.0052	-0.03	-0.03	0.00
<b>Interim Rate Increase (TY 2017)</b>	% on base	0.000%	0.000%	0.00	0.00	0.00
<b>Refund of 2011 Interim</b>	% on base	0.000%	0.000%	0.00	0.00	0.00
<b>PBF Surcharge</b>	¢/kWh	0.6488	0.6488	3.24	3.24	0.00
<b>Renewable Energy Infrastructure Cost Recovery Provision</b>	¢/kWh	0.0168	0.0168	0.08	0.08	0.00
<b>SolarSaver Adjustment</b>	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
<b>Energy Cost Recovery</b>	¢/kWh	26.477	29.852	132.39	149.26	16.87
<b>Green Infrastructure Fee</b>	\$	1.18	1.18	1.18	1.18	0.00
<b>Avg Residential Bill at 500 kWh</b>				228.13	236.79	

Increase / (Decrease -)	8.66
% Change	3.80%

	Rate		Charge (\$) at 600 kWh			
	8/1/2022	9/1/2022	8/1/2022	9/1/2022	Difference	
<b>Base Rates</b>	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
<b>Total Base Charges</b>				78.47	78.47	0.00
<b>Purchase Power Adjustment</b>	¢/kWh	2.8647	1.2229	17.19	7.34	-9.85
<b>RBA Rate Adjustment</b>	¢/kWh	1.9085	1.9085	11.45	11.45	0.00
<b>DSM Adjustment</b>	¢/kWh	0.1567	0.1567	0.94	0.94	0.00
<b>Demand Response Adjustment Clause</b>	¢/kWh	-0.0052	-0.0052	-0.03	-0.03	0.00
<b>Interim Rate Increase (TY 2017)</b>	% on base	0.000%	0.000%	0.00	0.00	0.00
<b>Refund of 2011 Interim</b>	% on base	0.000%	0.000%	0.00	0.00	0.00
<b>PBF Surcharge</b>	¢/kWh	0.6488	0.6488	3.89	3.89	0.00
<b>Renewable Energy Infrastructure Cost Recovery Provision</b>	¢/kWh	0.0168	0.0168	0.10	0.10	0.00
<b>SolarSaver Adjustment</b>	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
<b>Energy Cost Recovery</b>	¢/kWh	26.477	29.852	158.86	179.11	20.25
<b>Green Infrastructure Fee</b>	\$	1.18	1.18	1.18	1.18	0.00
<b>Avg Residential Bill at 600 kWh</b>				272.05	282.45	

Increase / (Decrease -)	10.40
% Change	3.82%

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**From:** puc@hawaii.gov  
**Sent:** Monday, August 29, 2022 9:50 AM  
**To:** Oya, Tyler  
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