



November 28, 2023

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 2023

Hawaiian Electric Company, Inc.'s ("Hawaiian Electric" or "Company") December 2023 Energy Cost Recovery Factor is 23.450 cents per kilowatt-hour ("kWh"), a decrease of 0.677 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$209.73, a decrease of \$3.39 compared to rates effective November 1, 2023. The decrease in the residential typical bill is due to a decrease in the Energy Cost Recovery Factor (-\$3.39).

The Company's fuel composite cost of major energy decreased 14.14 cents per million BTU to 2,140.59 cents per million BTU. The Company's composite cost of minor energy increased 1.975 cents per kWh to 17.464 cents per kWh. The composite cost of purchased energy decreased 1.184 cents per kWh to 16.885 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, 2023.

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>11/01/23</u>	<u>12/01/23</u>	
Composite Cost Of Major Energy, ¢/mmbtu	2,154.73	2,140.59	(14.14)
Composite Cost Of Minor Energy, ¢/kwh	15.489	17.464	1.975
Composite Cost Of Purchased Energy, ¢/kWh	18.069	16.885	(1.184)
 <u>Residential, Schedule "R"</u>			
Energy Cost Recovery, ¢/kWh	24.127	23.450	(0.677)
 <u>Others, Schedules "G,J,DS,P,F"</u>			
Energy Cost Recovery, ¢/kWh	24.127	23.450	(0.677)
 <u>Residential Customer with:</u>			
500 kWh Consumption, \$/bill	213.12	209.73	(3.39)
600 kWh Consumption, \$/bill	253.70	249.64	(4.06)

Supersedes Sheet Effective:

November 1, 2023

Hawaiian Electric Company, Inc.  
ENERGY COST RECOVERY FILING

ENERGY COST RECOVERY (ECR) FILING - December 1, 2023 (page 1 of 2)

Line		
1	Effective Date	- December 1, 2023
2	Supersedes Factor	- November 1, 2023

**GENERATION COMPONENT**

MAJOR ENERGY COMPONENT				MINOR ENERGY COMPONENT			
				Fuel Type	Gen Cost ¢/KWH	Percent of Minor Energy	Weighted Gen Cost ¢/KWH
3	FUEL PRICES, ¢/mmbtu			32a Airport DG	40.02	0.26%	0.1024
4	Honolulu	0.00		32b CIP-Biodiesel	0.00	0.00%	0.0000
5	Kahe	2,140.59		32c CT-1 (CIP) ULSD	0.00	0.00%	0.0000
6	Waiiau-Steam	2,140.59		32d SGS - Biodiesel	34.14	31.02%	10.5915
7	(Future Use)	0.00		32e SGS - ULSD	21.09	30.96%	6.5286
8	(Future Use)	0.00		32f Waiiau-Diesel	132.01	0.18%	0.2413
9	Other	0		32g West Loch PV	0.00	37.58%	0.0000
	BTU MIX, %			32h COMPOSITE COST OF MINOR ENERGY, ¢/kWh			
10	Honolulu	0.00		33 % Input to System kWh Mix			
11	Kahe	68.69		34 WTD COMP MINOR ENERGY COST, ¢/kWh (Lines 32h x 33)			
12	Waiiau-Steam	31.31		35 2017 TY Loss Factor			
13	(Future Use)	0.00		36 WTD COMP MINOR ENERGY COST, ¢/kWh (Line 34 x 35)			
14	(Future Use)	0.00		37 BASE MINOR ENERGY COMP COST			
15	(Future Use)	0.00		38 Base % Input to System kWh Mix			
16	Other	100.00		39 WTD BASE MINOR ENERGY COST, ¢/kWh (Line 37 x 38)			
17	COMPOSITE COST OF GENERATION, MAJOR ENERGY ¢/mmbtu	2,140.59		40 2017 TY Loss Factor			
18	% Input to system kWh Mix	53.44		41 WTD COMP MINOR ENERGY COST, ¢/kWh (Line 39 x 40)			
	EFFICIENCY FACTOR, mmbtu/kWh			42 Cost Less Base (Line 36 - 41)			
	(A) (B) (C) (D)			43 Revenue Tax Adjustment (1 / (1-0.08885))			
	Fuel Type Eff Factor mmbtu/kWh	Percent of Centrl Stn + Other	Weighted Eff Factor	44 MINOR ENERGY FACTOR, ¢/kWh (Line 42 x 43)			
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)		12.74568				
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)	12.74568					
30	Revenue Tax Adjustment (1 / (1-0.08885))	1.097514					
31	MAJOR ENERGY GENERATION FACTOR, ¢/KWH (Line 29 x 30)		13.98856				

SUMMARY OF TOTAL GENERATION FACTOR, ¢/kWh		
45 MAJOR ENERGY (line 31)		13.98856
46 MINOR ENERGY (line 44)	-	0.28349
47 TOTAL GENERATION FACTOR, ¢/KWH (lines 45 + 46)	-	14.27205

Hawaiian Electric Company, Inc.  
ENERGY COST RECOVERY FILING

ENERGY COST RECOVERY (ECR) FILING - December 1, 2023 (page 2 of 2)

Line	Effective Date	- December 1, 2023
2	Supersedes Factor	- November 1, 2023

Line	PURCHASED ENERGY COMPONENT		Calculation of Monthly Fossil Fuel Cost Risk Sharing Component	
48	PURCHASED ENERGY PRICE - FOSSIL - ¢/KWH			
48	PAR Hawaii - On Peak	21.662	<b>Baseline LSFO</b>	
49	PAR Hawaii - Off Peak	21.909	101 LSFO \$, baseline month	\$86,713,031
50	IES Downstream	0.000	102 LSFO mmbtu, baseline	3,645,940
51	Kalaeloa	17.544	103 Baseline LSFO, ¢/mmbtu	2378.35
52	Unused			
53				
	PURCHASED ENERGY PRICE - RENEWABLE - ¢/KWH		<b>Baseline Diesel</b>	
54	HRRV - On Peak	20.43	104 Diesel \$, baseline month	\$7,199,136
55	- Off Peak	19.84	105 Diesel mmbtu, baseline	269,088
56	HRRV - On Peak (excess)	13.01	106 Baseline Diesel, ¢/mmbtu	2,675.39
57	- Off Peak (excess)	7.81		
58	Kawaiiloa Wind	23.77	<b>Month LSFO</b>	
59	Kahuku Wind	22.30	107 LSFO mmbtu, budget	3,025.470
60	Waianae Solar PV	14.50	108 LSFO Cost, ¢/mmbtu	2,140.59
61	As Available I	23.91	109 LSFO ECRC Fossil Cost	\$64,762,909
62	FIT	23.74	110 LSFO Base ECRC Recovery Target	\$71,956,119
63	CBRE PV	15.00	111 LSFO differential	-\$7,193,209
64	Kawaiiloa PV	12.73		
65	Lanikuhana PV	13.05	<b>Month Diesel</b>	
66	Waipio PV	12.18	112 Diesel mmbtu, budget	21,741
67	Na Pua Makani Wind	14.21	113 Diesel Cost, ¢/mmbtu	2,506.53
67.1	Milliani I Solar	0.00	114 Diesel ECRC Fossil Cost	\$544,943
67.2	Waiawa Solar	0.00	115 Diesel Base ECRC Recovery Target	\$581,655
67.3	Unused	0.00	116 Diesel differential	-\$36,712
67.4	Unused	0.00	117 Total Fossil	-\$7,229,921
67.5	Unused	0.00	118 2% of above	-\$144,598
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	0.21	118C Applicable Monthly Fossil Fuel Cost Risk Sharing	\$0
69	PAR Hawaii - Off Peak	0.15	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	60.95	120 Revenue Tax Adjustment	1,097,514
72	Unused		121 Fossil Cost Risk Sharing w/revenue tax	\$0
73				
73a	Subtotal Fossil %	61.36	122 Forecasted Month MWh Sales	512,231
	PURCHASED ENERGY KWH MIX - RENEWABLE - %		123 Fossil Fuel Cost Risk Sharing Component, ¢/kWh	0.0000
74	HRRV - On Peak	8.14		
75	- Off Peak	3.15		
76	HRRV - On Peak (excess)	0.00		
77	- Off Peak (excess)	2.36		
78	Kawaiiloa Wind	3.72		
79	Kahuku Wind	2.57		
80	Waianae Solar PV	1.86		
81	As Available I	0.55		
82	FIT	2.20		
83	CBRE PV	0.00		
84	Kawaiiloa PV	2.78		
85	Lanikuhana PV	0.85		
86	Waipio PV	2.66		
87	Na Pua Makani Wind	3.31		
87.1	Milliani I Solar	2.31		
87.2	Waiawa Solar	2.18		
87.3	Unused	0.00		
87.4	Unused	0.00		
87.5	Unused	0.00		
87.6	Unused	0.00		
87a	Subtotal Renewable %	38.64		
87b	Total Purchased Energy %	100.00		
87c	Composite Cost of Purchased Energy, Fossil	17.56		
87d	Composite Cost of Purchased Energy, Renewable	15.82		
88	COMPOSITE COST OF PURCHASED ENERGY, ¢/KWH	16.885		
89	% Input to System kWh Mix	45.15		
90	WTD CMP PURCH ENRGY COST, ¢/KWH (lines 88 x 89)	7.62358		
91	2017 TY Loss Factor	1.0490		
92	WTD CMP PURCH ENRGY COST, ¢/KWH (lines 90 x 91)	7.99714		
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)	7.99714		
99	Revenue Tax Adjustment (1 / (1-0.08885))	1.097514		
100	PURCHASED ENERGY FACTOR, ¢/KWH (lines 98 x 99)	8.77697		
			<b>Line SYSTEM COMPOSITE</b>	
			124 GEN AND PURCHASED ENERGY FACTOR, ¢/kWh (lines 47 + 100)	23.0490
			125 (Future Use) Adjustment, ¢/kWh	0.0000
			126 ECR Reconciliation Adjustment	0.2760
			127 Non-Adjustable Component (line 80E)	0.1253
			128 Fossil Fuel Cost Risk Sharing Component (line 123)	0.0000
			129 Monthly Energy Cost Recovery Factor (lines 124 + 125 + 126 + 127 + 128)	23.450

**Hawaiian Electric Company, Inc.**  
**FUEL OIL INVENTORY PRICES FOR December 1, 2023**

	<u>Honolulu</u>	<u>Kahe</u>	<u>Waiau</u>
Average Low Sulfur Fuel Oil, ¢/Mbtu	2,139.29	2,139.29	2,139.29
Fuel Additive, ¢/Mbtu	-	1.30	1.30
Honolulu Trucking Cost, ¢/Mbtu	-	-	-
Low Sulfur Fuel Oil Prices Used For Filing, ¢/Mbtu	2,139.29	2,140.59	2,140.59
	<u>Waiau</u>	<u>CIP Biodiesel</u>	<u>CIP Diesel</u>
Average Diesel / Biodiesel Oil, ¢/Mbtu	2,244.32	-	2,407.78
Thruput Charges, ¢/Mbtu	-	-	0
Diesel / Biodiesel Oil Prices Used for Filing, ¢/Mbtu	2,244.32	-	2,407.78
	<u>SGS ULSD</u>	<u>SGS Biodiesel</u>	
Average Diesel / Biodiesel Oil, ¢/Mbtu	2,520.66	3,935.16	
Thruput Charges, ¢/Mbtu	-	-	
Diesel / Biodiesel Oil Prices Used for Filing, ¢/Mbtu	2,520.66	3,935.16	
	<u>Honolulu</u>	<u>Kahe</u>	<u>Waiau</u>
Average Low Sulfur Fuel Oil, \$/bbl	134.85	134.85	134.85
Fuel Additive, \$/bbl	-	0.08	0.08
Honolulu Trucking Cost, \$/bbl	-	-	-
Low Sulfur Fuel Oil Prices Used For Filing, \$/bbl	134.85	134.93	134.93
	<u>Waiau</u>	<u>CIP Biodiesel</u>	<u>CIP Diesel</u>
Average Diesel / Biodiesel Oil, \$/bbl	128.48	-	138.53
Thruput Charges, ¢/Mbtu	-	-	-
Diesel / Biodiesel Oil Prices Used for Filing, \$/bbl	128.48	-	138.53
	<u>SGS ULSD</u>	<u>SGS Biodiesel</u>	
Average Diesel / Biodiesel Oil, \$/bbl	143.14	206.40	
Thruput Charges, ¢/Mbtu	-	-	
Diesel / Biodiesel Oil Prices Used for Filing, \$/bbl	143.14	206.40	
Distributed Generation Fuel Prices Used for Filing, ¢/kWh			40.020

**FOAC December 1, 2023**

<b><u>LSFO</u></b>	<b>BARRELS</b>	<b>MBTU</b>	<b>AMOUNT</b>	<b>AVE \$/MBTU</b>
Per FOAC run	612,824	3,862,969	82,639,938	21.392858
Additional	-	-	-	-
<b>Forecast Amt</b>	<b>612,824</b>	<b>3,862,969</b>	<b>82,639,938</b>	<b>21.392858</b>
	-	6.20	-	ADD'L BBL
	3,862,969	612,824	6.3036	MBTU / BBL
	82,639,938	612,824	134.85	DOLLARS / BBL
<b><u>WAI AU DIESEL</u></b>	27,822	159,270	3,574,534	22.443184
	3,574,534	27,822	128.48	DOLLARS / BBL
<b><u>CIP BIODIESEL</u></b>	-	-	-	-
	-	-	-	DOLLARS / BBL
<b><u>CIP DIESEL</u></b>	59,718	343,578	8,272,628	24.077848
	8,272,628	59,718	138.53	DOLLARS / BBL
<b><u>SGS ULSD</u></b>	4,674	26,545	669,106	25.206574
	669,106.33	4,674	143.14	DOLLARS / BBL
<b><u>SGS BIODIESEL</u></b>	4,138	21,702	853,995	39.35164949
	853,995	4,138	206.40	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)	\$	39.20	\$	39.35	\$	25.21	Estimated Distributed Generation Fuel Cost (\$/MBTU)
(B)		204		21,031		20,236	Estimated MBTU Consumption
(B1)		39		4,007		3,532	Estimated fuel consumption barrels
(C) = (A) x (B)		\$8,004		\$827,592		\$510,078	Estimated Distributed Generation Fuel Cost (\$)
(D)		20,000		2,424,268		2,418,993	Estimated Distributed Generation kWh
(E) = ((C) ÷ (D)) x 100		<u>40.020</u>		<u>34.140</u>		<u>21.090</u>	¢/kWh

**Hawaiian Electric Company, Inc.**  
**ECA RECONCILIATION ADJUSTMENT**  
**December 2023**

1.	Amount to be collected	\$	3,870,700
2.	Monthly Amount (Line 1 x 1/3)	\$	1,290,233
3.	Revenue Tax Divisor		0.91115
4.	Total (Line 2 / Line 3)	\$	1,416,049
5.	Estimated MWh Sales (December 2023)		512,231
6.	ECA Reconciliation Adjustment, ¢/kWh (Line 4 ÷ Line 5)		<u><u>0.276</u></u>

**HAWAIIAN ELECTRIC COMPANY, INC.**  
**2023 Cumulative Reconciliation Balance**

Month	(1) YTD FOA Reconciliation	Qtr	(2) FOA Rec Variance	(3) FOA Rec Less Variance	(4) Try to Collect	(5) Actual Collect	(6) Month-end Cumulative Balance
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	3,404,135	(6,385,735)
December					3,291,300	3,416,826	(2,968,909)
January 23					3,291,300	3,279,256	310,347
February	(10,447,000)	(4)	322,385	(10,769,385)	3,482,333	3,386,039	(7,072,999)
March					3,482,333	3,465,220	(3,607,779)
April					3,482,333	3,441,016	(166,763)
May	(14,067,100)	(1)	(125,452)	(13,941,648)	4,689,033	4,539,978	(9,568,433)
June					4,689,033	4,428,373	(5,140,060)
July					4,689,033	4,428,367	(711,693)
August	(14,867,100)	(2)	(451,033)	(14,416,067)	4,955,700	4,601,243	(10,526,517)
September					4,955,700	4,762,510	(5,764,007)
October					4,955,700	4,880,964	(883,043)
November	(3,870,700)	(3)	(808,313)	(3,062,387)	1,290,233		
December					1,290,233		

**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 &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	
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	
January 1, 2023	27.262	222.63	265.42	
February 1, 2023	25.953	219.26	261.37	
March 1, 2023	24.781	213.48	254.44	
April 1, 2023	23.208	205.58	244.97	
May 1, 2023	22.476	202.19	240.90	
June 1, 2023	21.437	199.52	237.39	
July 1, 2023	20.594	195.82	232.95	
August 1, 2023	21.044	200.44	238.50	
September 1, 2023	22.378	207.12	246.54	
October 1, 2023	23.920	214.85	255.81	
November 1, 2023	24.127	213.12	253.70	
December 1, 2023	23.450	209.73	249.64	

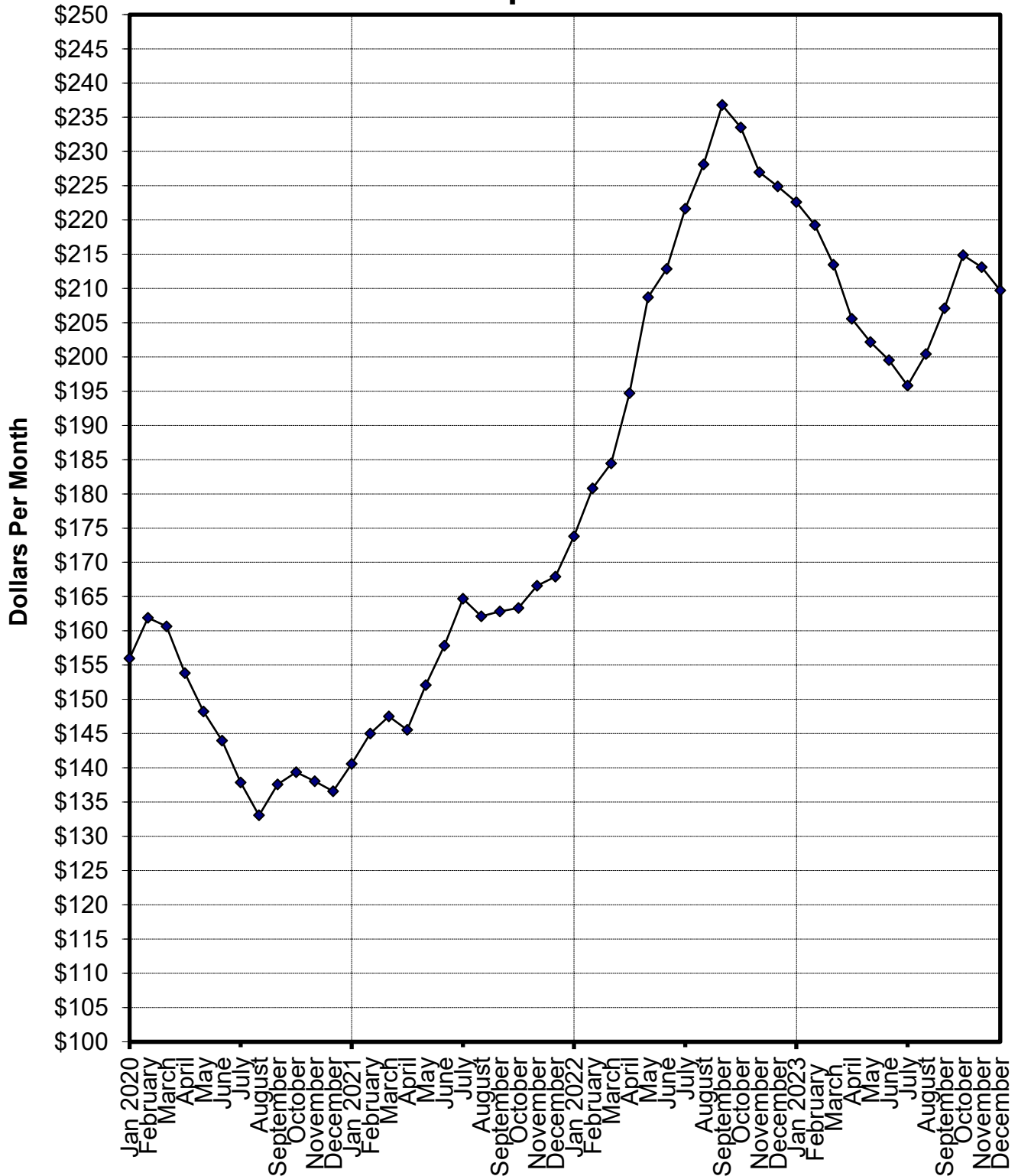
**Hawaiian Electric Company, Inc.**  
**RESIDENTIAL SURCHARGE DATA**

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
6/1/2022-12/31/2022	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.9085 CENTS/KWH
7/1/2022-12/31/2022	GREEN INFRASTRUCTURE FEE	1.18 DOLLARS/MONTH
7/1/2022-7/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.6139 CENTS/KWH
7/1/2022-6/30/2023	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
8/1/2022-7/31/2023	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
11/1/2022-1/31/2023	RESIDENTIAL DEMAND RESPONSE ADJUSTMENT CLAUSE (DRAC)	-0.0075 CENTS/KWH
11/1/2022-1/31/2023	RESIDENTIAL DSM ADJUSTMENT	-0.0375 CENTS/KWH
12/1/2022-12/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE	0.8385 CENTS/KWH
1/1/2023-1/31/2023	PURCHASED POWER ADJUSTMENT CLAUSE	0.8495 CENTS/KWH
1/1/2023-6/30/2023	GREEN INFRASTRUCTURE FEE	1.23 DOLLARS/MONTH
1/1/2023-5/31/2023	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	2.2241 CENTS/KWH
2/1/2023-4/30/2023	RESIDENTIAL DEMAND RESPONSE ADJUSTMENT CLAUSE (DRAC)	-0.0083 CENTS/KWH
2/1/2023-4/30/2023	RESIDENTIAL DSM ADJUSTMENT	0.0921 CENTS/KWH
2/1/2023-2/28/2023	PURCHASED POWER ADJUSTMENT CLAUSE	1.3539 CENTS/KWH
3/1/2023-3/31/2023	PURCHASED POWER ADJUSTMENT CLAUSE	1.3695 CENTS/KWH
4/1/2023-4/30/2023	PURCHASED POWER ADJUSTMENT CLAUSE	1.3647 CENTS/KWH
5/1/2023-5/31/2023	PURCHASED POWER ADJUSTMENT CLAUSE	1.3768 CENTS/KWH
5/1/2023-7/31/2023	RESIDENTIAL DSM ADJUSTMENT	0.1299 CENTS/KWH
5/1/2023-7/31/2023	RESIDENTIAL DEMAND RESPONSE ADJUSTMENT CLAUSE (DRAC)	-0.0049 CENTS/KWH
6/1/2023-6/30/2023	PURCHASED POWER ADJUSTMENT CLAUSE	1.3883 CENTS/KWH
<b>6/1/2023</b>	<b>REVENUE BALANCING ACCOUNT RATE ADJUSTMENT</b>	<b>17.25% PERCENT OF ALL RATE SCHEDULE CHARGES, EXCLUDING ECRC and RBA</b>
7/1/2023-7/31/2023	PURCHASED POWER ADJUSTMENT CLAUSE	1.4139 CENTS/KWH
<b>7/1/2023</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.18 DOLLARS/MONTH</b>
<b>7/1/2023</b>	<b>RESID. PBF SURCHARGE ADJUSTMENT</b>	<b>0.7195 CENTS/KWH</b>
8/1/2023-10/31/2023	RESIDENTIAL DSM ADJUSTMENT	0.2551 CENTS/KWH
8/1/2023-10/31/2023	RESIDENTIAL DEMAND RESPONSE ADJUSTMENT CLAUSE (DRAC)	-0.0055 CENTS/KWH
8/1/2023-8/31/2023	PURCHASED POWER ADJUSTMENT CLAUSE	1.6938 CENTS/KWH
<b>8/1/2023</b>	<b>RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION</b>	<b>0.0163 CENTS/KWH</b>
9/1/2023-9/30/2023	PURCHASED POWER ADJUSTMENT CLAUSE	1.6966 CENTS/KWH
10/1/2023-10/31/2023	PURCHASED POWER ADJUSTMENT CLAUSE	1.7000 CENTS/KWH
11/1/2023-11/30/2023	PURCHASED POWER ADJUSTMENT CLAUSE	1.2157 CENTS/KWH
<b>11/1/2023</b>	<b>RESIDENTIAL DSM ADJUSTMENT</b>	<b>0.2734 CENTS/KWH</b>
<b>11/1/2023</b>	<b>RESIDENTIAL DEMAND RESPONSE ADJUSTMENT CLAUSE (DRAC)</b>	<b>-0.0146 CENTS/KWH</b>
<b>12/1/2023</b>	<b>PURCHASED POWER ADJUSTMENT CLAUSE</b>	<b>1.2152 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		
	11/1/2023	12/1/2023	11/1/2023	12/1/2023	Difference
<b>Base Rates</b>	effective date:	01/01/19	01/01/19		
Base Fuel/Energy Charge	¢/kWh	-	-	0.00	0.00
Non-fuel Fuel Energy Charge					
First 350 kWhr per month	¢/kWh	10.6812	10.6812	37.38	37.38
Next 850 kWhr per month	¢/kWh	11.8347	11.8347	17.75	17.75
Customer Charge	\$	11.50	11.50	11.50	11.50
<b>Total Base Charges</b>				66.63	66.63
<b>Purchase Power Adjustment</b>	¢/kWh	1.2157	1.2152	6.08	6.08
<b>RBA Rate Adjustment</b>	% except ECRC	17.25%	17.25%	13.61	13.61
<b>DSM Adjustment</b>	¢/kWh	0.2734	0.2734	1.37	1.37
<b>Demand Response Adjustment Clause</b>	¢/kWh	-0.0146	-0.0146	-0.07	-0.07
<b>Interim Rate Increase (TY 2017)</b>	% on base	0.000%	0.000%	0.00	0.00
<b>Refund of 2011 Interim</b>	% on base	0.000%	0.000%	0.00	0.00
<b>PBF Surcharge</b>	¢/kWh	0.7195	0.7195	3.60	3.60
<b>Renewable Energy Infrastructure Cost Recovery Provision</b>	¢/kWh	0.0163	0.0163	0.08	0.08
<b>SolarSaver Adjustment</b>	¢/kWh	0.0000	0.0000	0.00	0.00
<b>Energy Cost Recovery</b>	¢/kWh	24.127	23.450	120.64	117.25
<b>Green Infrastructure Fee</b>	\$	1.18	1.18	1.18	1.18
<b>Avg Residential Bill at 500 kWh</b>				213.12	209.73

Increase / (Decrease -) -3.39  
% Change -1.59%

	Rate		Charge (\$) at 600 kWh		
	11/1/2023	12/1/2023	11/1/2023	12/1/2023	Difference
<b>Base Rates</b>	effective date:	01/01/19	01/01/19		
Base Fuel/Energy Charge	¢/kWh	-	-	0.00	0.00
Non-fuel Fuel Energy Charge					
First 350 kWhr per month	¢/kWh	10.6812	10.6812	37.38	37.38
Next 850 kWhr per month	¢/kWh	11.8347	11.8347	29.59	29.59
Customer Charge	\$	11.50	11.50	11.50	11.50
<b>Total Base Charges</b>				78.47	78.47
<b>Purchase Power Adjustment</b>	¢/kWh	1.2157	1.2152	7.29	7.29
<b>RBA Rate Adjustment</b>	% except ECRC	17.25%	17.25%	16.03	16.03
<b>DSM Adjustment</b>	¢/kWh	0.2734	0.2734	1.64	1.64
<b>Demand Response Adjustment Clause</b>	¢/kWh	-0.0146	-0.0146	-0.09	-0.09
<b>Interim Rate Increase (TY 2017)</b>	% on base	0.000%	0.000%	0.00	0.00
<b>Refund of 2011 Interim</b>	% on base	0.000%	0.000%	0.00	0.00
<b>PBF Surcharge</b>	¢/kWh	0.7195	0.7195	4.32	4.32
<b>Renewable Energy Infrastructure Cost Recovery Provision</b>	¢/kWh	0.0163	0.0163	0.10	0.10
<b>SolarSaver Adjustment</b>	¢/kWh	0.0000	0.0000	0.00	0.00
<b>Energy Cost Recovery</b>	¢/kWh	24.127	23.450	144.76	140.70
<b>Green Infrastructure Fee</b>	\$	1.18	1.18	1.18	1.18
<b>Avg Residential Bill at 600 kWh</b>				253.70	249.64

Increase / (Decrease -) -4.06  
% Change -1.60%

Note: Effective June 1, 2023, the RBA Rate Adjustment is billed based on the total billed amount before the RBA rate adjustment excluding the Energy Cost Recovery.

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**From:** noreply@salesforce.com on behalf of PUC CDMS <hpuc@notify.hawaii.gov>  
**Sent:** Tuesday, November 28, 2023 12:53 PM  
**To:** Oya, Tyler  
**Subject:** Hawaii PUC CDMS eSERVICES - E-Filing F-297834 FILED Confirmation

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## E-Filing Filed Confirmation

Aloha Tyler Oya,

Your electronic filing to the Hawaii Public Utilities Commission has been **FILED**. You will receive an email when the filing is public.

*Please note that filings submitted after 4:30 p.m. Hawaii Standard Time will be deemed "FILED" the next business day. The mere fact of filing shall not waive any failure to comply with Hawaii Administrative Rules Chapter 6-61, Rules of Practice and Procedure Before the Public Utilities Commission, or any other application requirements.*

**E-Filing Confirmation Number:** F-297834  
**Account:** Hawaiian Electric Company, Inc.  
**Date and Time Submitted:** 11/28/2023, 12:52 PM  
**Case or Docket Reference Number:**  
**Case or Docket Number (if applicable):** Pending  
**Filing Category/Type:** Reports / Energy Cost Adjustment Factors

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