



August 27, 2021

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 2021

Hawaiian Electric Company, Inc.'s ("Hawaiian Electric" or "Company") September 2021 Energy Cost Recovery Factor is 14.227 cents per kilowatt-hour ("kWh"), an increase of 0.151 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$162.82, an increase of \$0.70 compared to rates effective August 1, 2021. The increase in the residential typical bill is due to an increase in the Energy Cost Recovery Factor (+\$0.76), which is partially offset by a decrease in the Purchase Power Adjustment Clause rate (-\$0.06).

The Company's fuel composite cost of major energy increased 34.60 cents per million BTU to 1,414.81 cents per million BTU. The Company's composite cost of minor energy decreased 0.236 cents per kWh to 12.696 cents per kWh. The composite cost of minor energy still reflects the continued pass through of the retroactive incorporation of the U.S. Federal Alternative Fuels Blenders Tax Credit in the September inventory price of the Schofield Generating Station ("SGS") biodiesel fuel for biodiesel fuel purchases from 2018 through 2020. The Company started the retroactive incorporation of this tax credit in the ECRC filing for April 2021. The composite cost of purchased energy decreased 0.233 cents per kWh to 10.148 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 September 1, 2021.

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>08/01/21</u>	<u>09/01/21</u>	
Composite Cost Of Major Energy, ¢/mmbtu	1,380.21	1,414.81	34.60
Composite Cost Of Minor Energy, ¢/kwh	12.932	12.696	(0.236)
Composite Cost Of Purchased Energy, ¢/kWh	10.381	10.148	(0.233)
 <u>Residential, Schedule "R"</u>			
Energy Cost Recovery, ¢/kWh	14.076	14.227	0.151
 <u>Others, Schedules "G,J,DS,P,F"</u>			
Energy Cost Recovery, ¢/kWh	14.076	14.227	0.151
 <u>Residential Customer with:</u>			
500 kWh Consumption, \$/bill	162.12	162.82	0.70
600 kWh Consumption, \$/bill	192.82	193.65	0.83

Supersedes Sheet Effective:

August 1, 2021

Hawaiian Electric Company, Inc.
ENERGY COST RECOVERY FILING

ENERGY COST RECOVERY (ECR) FILING - September 1, 2021 (page 1 of 2)

Line		
1	Effective Date	- September 1, 2021
2	Supersedes Factor	- August 1, 2021

GENERATION COMPONENT

<u>MAJOR ENERGY COMPONENT</u>				<u>MINOR ENERGY COMPONENT</u>			
				Gen Cost	Percent of	Weighted Gen	
				<u>Fuel Type</u>	<u>Minor Energy</u>	<u>Cost \$/KWH</u>	
				<u>\$/KWH</u>			
3	FUEL PRICES, \$/mmbtu			32a Airport DG	23.75	3.05%	0.7254
4	Honolulu	0.00		32b CIP-Biodiesel	0.00	0.00%	0.0000
5	Kahe	1,414.81		32c CT-1 (CIP) ULSD	40.82	4.77%	1.9491
6	Waiau-Steam	1,414.81		32d SGS - Biodiesel	20.35	26.26%	5.3437
7	(Future Use)	0.00		32e SGS - ULSD	18.20	0.05%	0.0086
8	(Future Use)	0.00		32f Waiau-Diesel	34.89	13.38%	4.6696
9	Other	0		32g West Loch PV	0.00	52.48%	0.0000
				32h COMPOSITE COST OF MINOR ENERGY, \$/kWh			12.696
10	BTU MIX, %			33 % Input to System kWh Mix			1.38
11	Honolulu	0.00					
12	Kahe	72.06		34 WTD COMP MINOR ENERGY COST, \$/kWh (Lines 32h x 33)			0.17521
13	Waiau-Steam	27.94		35 2017 TY Loss Factor			1.0490
14	(Future Use)	0.00		36 WTD COMP MINOR ENERGY COST, \$/kWh (Line 34 x 35)			0.18380
15	(Future Use)	0.00		37 BASE MINOR ENERGY COMP COST			0.0000
16	Other	0.00		38 Base % Input to System kWh Mix			0.0000
17	COMPOSITE COST OF GENERATION, MAJOR ENERGY \$/mmbtu	1,414.81		39 WTD BASE MINOR ENERGY COST, \$/kWh (Line 37 x 38)			0.00000
18	% Input to system kWh Mix	47.29		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)			0.183795
				43 Revenue Tax Adjustment (1 / (1-0.08885))			1.097514
				44 MINOR ENERGY FACTOR, \$/kWh (Line 42 x 43)			0.20172
19	Fuel Type	Eff Factor	Percent of				
		mmbtu/kWh	Centri Stn + Other	Weighted			
				Eff Factor			
20	LSFO	0.011142	100.00	0.011142			
21	(Future Use)	0.000000	0.00	0.000000			
22	(Future Use)	0.000000	0.00	0.000000			
23	Other	0.011142	0.00	0.000000			
	(Lines 19 through 22): Col(B) x Col(C) = Col(D)						
24	Weighted Efficiency Factor, mmbtu/kWh [lines 19(D) + 20(D) + 21(D) + 22(D)]			0.011142			
25	WEIGHTED MAJOR ENERGY COST, \$/kWh Sales (lines 17 x 18 x 23)			7.45471			
26	BASE MAJOR ENERGY COST, \$/mmbtu	0.00					
27	Base % Input to System kWh Mix	0.0000					
28	Efficiency Factor, Mbtu/kWh	0.000000					
29	WEIGHTED BASE MAJOR ENERGY COST \$/KWH Sales (lines 25 x 26 x 27)			0.00000			
30	Cost Less Base (Line 24 - 28)	7.45471					
31	Revenue Tax Adjustment (1 / (1-0.08885))	1.097514					
32	MAJOR ENERGY GENERATION FACTOR, \$/KWH (Line 29 x 30)			8.18165			

<u>SUMMARY OF TOTAL GENERATION FACTOR, \$/kWh</u>	
45 MAJOR ENERGY (line 31)	8.18165
46 MINOR ENERGY (line 44)	- 0.20172
47 TOTAL GENERATION FACTOR, \$/KWH (lines 45 + 46)	- 8.38337

Hawaiian Electric Company, Inc.
ENERGY COST RECOVERY FILING

ENERGY COST RECOVERY (ECR) FILING - September 1, 2021 (page 2 of 2)

Line	Effective Date	- September 1, 2021
1	Supercedes Factor	- August 1, 2021
2		

Line	PURCHASED ENERGY COMPONENT		Calculation of Monthly Fossil Fuel Cost Risk Sharing Component	
	PURCHASED ENERGY PRICE - FOSSIL - ¢/KWH			
48	PAR Hawaii - On Peak	9.157	Baseline LSFO	
49	PAR Hawaii - Off Peak	12.716	101 LSFO \$, baseline month	\$26,119,028
50	IES Downstream	0.000	102 LSFO mmbtu, baseline	2,936,857
51	Kalaeloa	12.080	103 Baseline LSFO, ¢/mmbtu	889.35
52	AES-HI	3.516		
53			Baseline Diesel	
	PURCHASED ENERGY PRICE - RENEWABLE - ¢/KWH		104 Diesel \$, baseline month	\$1,959,475
54	HRRV - On Peak	18.14	105 Diesel mmbtu, baseline	205,718
55	- Off Peak	17.62	106 Baseline Diesel, ¢/mmbtu	952.51
56	HRRV - On Peak (excess)	11.55		
57	- Off Peak (excess)	6.93	Month LSFO	
58	Kawaiiloa Wind	23.07	107 LSFO mmbtu, budget	2,901,559
59	Kahuku Wind	21.64	108 LSFO Cost, ¢/mmbtu	1,413.51
60	Waianae Solar PV	14.50	109 LSFO ECRC Fossil Cost	\$41,013,916
61	As Available I	23.12	110 LSFO Base ECRC Recovery Target	\$25,805,104
62	FIT	23.74	111 LSFO differential	\$15,208,811
63	CBRE PV	15.00		
64	Kawaiiloa PV	12.73	Month Diesel	
65	Lanikuhana PV	13.05	112 Diesel mmbtu, budget	35,297
66	Waipio PV	12.18	113 Diesel Cost, ¢/mmbtu	1,473.61
67	Na Pua Makani Wind	13.93	114 Diesel ECRC Fossil Cost	\$520,148
	PURCHASED ENERGY KWH MIX - FOSSIL - %		115 Diesel Base ECRC Recovery Target	\$336,210
68	PAR Hawaii - On Peak	0.23	116 Diesel differential	\$183,937
69	PAR Hawaii - Off Peak	0.17	117 Total Fossil	\$15,392,749
70	IES Downstream	0.03	118 2% of above	\$307,855
71	Kalaeloa	30.74	118A Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year	\$1,258,764
72	AES-HI	38.00	118B Maximum Annual Cap (bi-directional)	\$2,500,000
73			118C Applicable Monthly Fossil Fuel Cost Risk Sharing	\$307,855
73a	Subtotal Fossil %	69.16	118D Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month	\$1,566,619
	PURCHASED ENERGY KWH MIX - RENEWABLE - %		119 Fossil Cost Risk Sharing before taxes	\$307,855
74	HRRV - On Peak	6.61	120 Revenue Tax Adjustment	1,097,514
75	- Off Peak	2.62	121 Fossil Cost Risk Sharing w/revenue tax	\$337,875
76	HRRV - On Peak (excess)	0.00	122 Forecasted Month MWh Sales	543,365
77	- Off Peak (excess)	2.62	123 Fossil Fuel Cost Risk Sharing Component, ¢/kWh	-0.0622
78	Kawaiiloa Wind	2.87		
79	Kahuku Wind	1.56		
80	Waianae Solar PV	1.96		
81	As Available I	0.64		
82	FIT	2.23	Derivation of Non-Adjustable Component:	
83	CBRE PV	0.04	80A Fuel Handling Exp, \$000	\$7,604.5
84	Kawaiiloa PV	3.29	Final Settlement, HECO-603, p1	
85	Lanikuhana PV	0.99	80B Revenue Tax Adjustment	1,097,514
86	Waipio PV	3.08	80C Non-Adj Revenues, \$000	\$8,346.0
87	Na Pua Makani Wind	2.33	80D 2017 TY Sales, MWh	6,660,200
87a	Subtotal Renewable %	30.84	HECO-301, p1	
87b	Total Purchased Energy %	100.00	80E Non-Adj Revenues, ¢/kWh	0.12531
87c	Composite Cost of Purchased Energy, Fossil	7.36		
87d	Composite Cost of Purchased Energy, Renewable	16.40		
88	COMPOSITE COST OF PURCHASED ENERGY, ¢/KWH		Line SYSTEM COMPOSITE	
89	% Input to System kWh Mix	51.33	124 GEN AND PURCHASED ENERGY FACTOR, ¢/kWh (lines 47 + 100)	14.3804
90	WTD CMP PURCH ENRGY COST, ¢/KWH (lines 88 x 89)	5.20897	125 (Future Use) Adjustment, ¢/kWh	0.0000
91	2017 TY Loss Factor	1.0490	126 ECR Reconciliation Adjustment	(0.2170)
92	WTD CMP PURCH ENRGY COST, ¢/KWH (lines 90 x 91)	5.46421	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)	-0.0622
94	Base % Input to System kWh Mix	0.0000	129 Monthly Energy Cost Recovery Factor (lines 124 + 125 + 126 + 127 + 128)	14.227
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)	5.46421		
99	Revenue Tax Adjustment (1 / (1-0.08885))	1.097514		
100	PURCHASED ENERGY FACTOR, ¢/KWH (lines 98 x 99)	5.99705		

Hawaiian Electric Company, Inc.
FUEL OIL INVENTORY PRICES FOR September 1, 2021

	Honolulu	Kahe	Waiau
Average Low Sulfur Fuel Oil, ¢/Mbtu	1,413.51	1,413.51	1,413.51
Fuel Additive, ¢/Mbtu	-	1.30	1.30
Honolulu Trucking Cost, ¢/Mbtu	-	-	-
Low Sulfur Fuel Oil Prices Used For Filing, ¢/Mbtu	1,413.51	1,414.81	1,414.81
	Waiau	CIP Biodiesel	CIP Diesel
Average Diesel / Biodiesel Oil, ¢/Mbtu	1,469.61	-	1,481.57
Thruput Charges, ¢/Mbtu	-	-	0
Diesel / Biodiesel Oil Prices Used for Filing, ¢/Mbtu	1,469.61	-	1,481.57
	SGS ULSD	SGS Biodiesel	
Average Diesel / Biodiesel Oil, ¢/Mbtu	2,000.71	2,318.31	
Thruput Charges, ¢/Mbtu	-	-	
Diesel / Biodiesel Oil Prices Used for Filing, ¢/Mbtu	2,000.71	2,318.31	
	Honolulu	Kahe	Waiau
Average Low Sulfur Fuel Oil, \$/bbl	88.47	88.47	88.47
Fuel Additive, \$/bbl	-	0.08	0.08
Honolulu Trucking Cost, \$/bbl	-	-	-
Low Sulfur Fuel Oil Prices Used For Filing, \$/bbl	88.47	88.55	88.55
	Waiau	CIP Biodiesel	CIP Diesel
Average Diesel / Biodiesel Oil, \$/bbl	85.67	-	84.06
Thruput Charges, ¢/Mbtu	-	-	-
Diesel / Biodiesel Oil Prices Used for Filing, \$/bbl	85.67	-	84.06
	SGS ULSD	SGS Biodiesel	
Average Diesel / Biodiesel Oil, \$/bbl	115.96	121.84	
Thruput Charges, ¢/Mbtu	-	-	
Diesel / Biodiesel Oil Prices Used for Filing, \$/bbl	115.96	121.84	
Distributed Generation Fuel Prices Used for Filing, ¢/kWh			23.750

FOAC September 1, 2021

<u>LSFO</u>	BARRELS	MBTU	AMOUNT	AVE \$/MBTU
Per FOAC run	715,295	4,476,842	63,280,750	14.135130
Additional	-	-	-	-
Forecast Amt	715,295	4,476,842	63,280,750	14.135130
	-	6.20	-	ADD'L BBL
	4,476,842	715,295	6.2587	MBTU / BBL
	63,280,750	715,295	88.47	DOLLARS / BBL
<u>WAI AU DIESEL</u>	24,691	143,933	2,115,250	14.696098
	2,115,250	24,691	85.67	DOLLARS / BBL
<u>CIP BIODIESEL</u>	-	-	-	-
	-	-	-	DOLLARS / BBL
<u>CIP DIESEL</u>	34,950	198,285	2,937,730	14.815674
	2,937,730	34,950	84.06	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>	4,274	22,462	520,733	23.18305097
	520,733	4,274	121.84	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)	\$	23.26	\$	23.18	\$	20.01	Estimated Distributed Generation Fuel Cost (\$/MBTU)
(B)		2447		18,093		34	Estimated MBTU Consumption
(B1)		466		3,448		6	Estimated fuel consumption barrels
(C) = (A) x (B)		\$56,935		\$419,446		\$671	Estimated Distributed Generation Fuel Cost (\$)
(D)		239,723		2,060,851		3,688	Estimated Distributed Generation kWh
(E) = ((C) ÷ (D)) x 100		<u>23.750</u>		<u>20.350</u>		<u>18.200</u>	¢/kWh

Hawaiian Electric Company, Inc.
ECA RECONCILIATION ADJUSTMENT
September 2021

1.	Amount to be collected	\$	(3,218,800)
2.	Monthly Amount (Line 1 x 1/3)	\$	(1,072,933)
3.	Revenue Tax Divisor		0.91115
4.	Total (Line 2 / Line 3)	\$	(1,177,559)
5.	Estimated MWh Sales (September 2021)		543,365
6.	ECA Reconciliation Adjustment, ¢/kWh (Line 4 ÷ Line 5)		<u><u>(0.217)</u></u>

HAWAIIAN ELECTRIC COMPANY, INC.
2021 Cumulative Reconciliation Balance

	(1)		(2)	(3)	(4)	(5)	(6)
<u>Month</u>	<u>YTD FOA Reconciliation</u>	<u>Qtr</u>	<u>FOA Rec Variance</u>	<u>FOA Rec Less Variance</u>	<u>Try to Collect</u>	<u>Actual Collect</u>	<u>Month-end Cumulative Balance</u>
November '19	(6,720,985)	(3)	294,091	(7,015,076)	2,240,328	2,353,575	(4,284,761)
December					2,240,328	2,361,239	(1,923,522)
January '20					2,240,328	2,306,195	382,673
February	(13,170,400)	(4)	316,801	(13,487,201)	4,390,133	4,094,101	(9,010,426)
March					4,390,133	4,306,396	(4,704,030)
April					4,390,133	3,741,603	(962,427)
May	(8,014,600)	(1)	(313,903)	(7,700,697)	2,671,533	2,938,807	(5,724,317)
June					2,671,533	3,210,640	(2,513,677)
July					2,671,533	3,023,078	509,401
August	1,191,000	(2)	157,850	1,033,150	(397,000)	(425,414)	1,117,137
September					(397,000)	(420,594)	696,543
October					(397,000)	(434,377)	262,166
November	(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)		
September					(1,072,933)		

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 <u>RESIDENTIAL & COMMERCIAL</u>	RESIDENTIAL BILL (\$)	
		<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

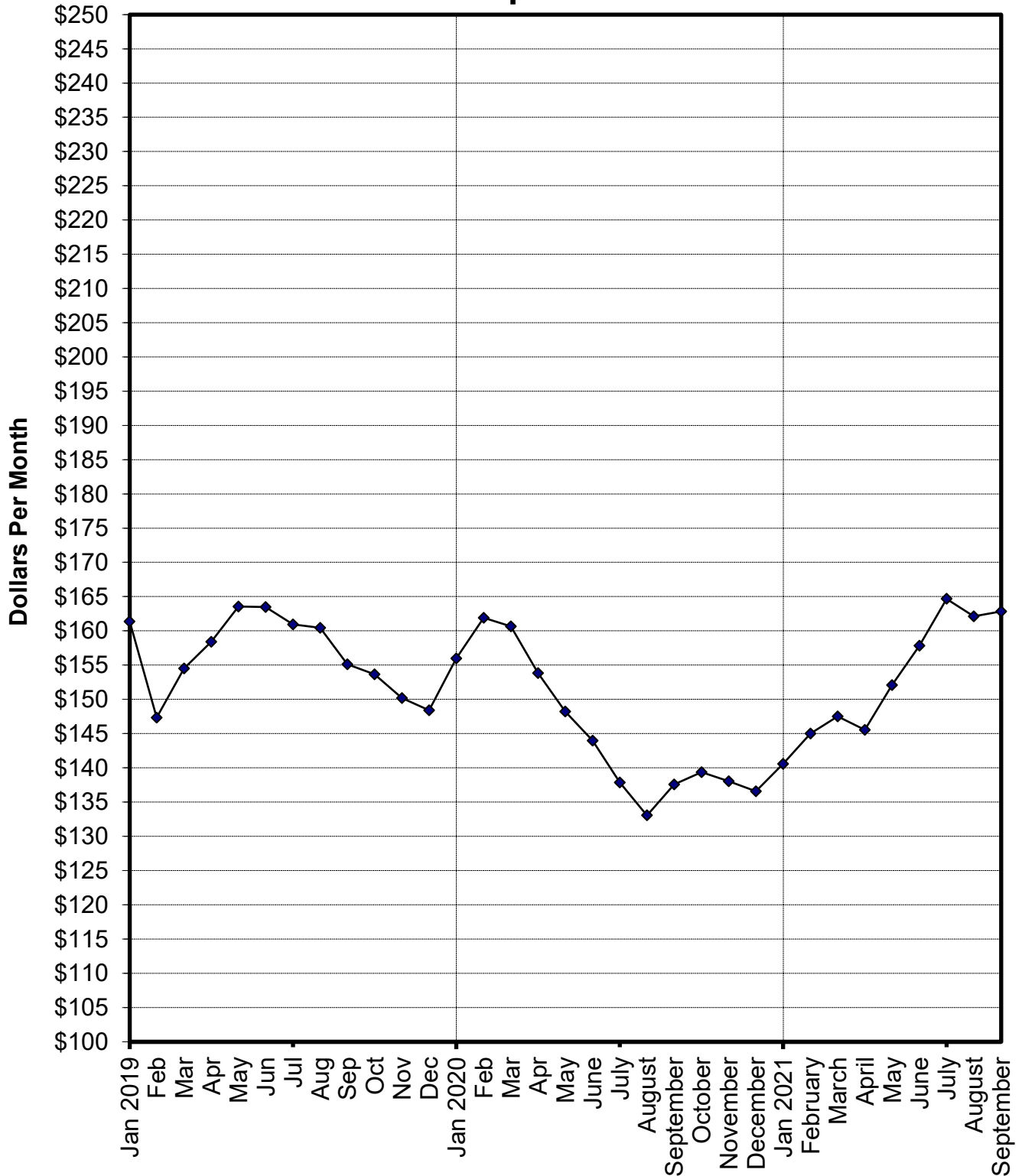
Hawaiian Electric Company, Inc.
RESIDENTIAL SURCHARGE DATA

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
9/1/2018	FINAL RATE INCREASE (TY2017) -0.039% EFFECTIVE 09/01/18, DOCKET NO. 2016-0328	
5/1/2019 - 3/31/2020	SOLAR SAVER ADJUSTMENT	0.0000 CENTS/KWH
5/1/2019 - 7/31/2019	RESIDENTIAL DSM ADJUSTMENT	0.0133 CENTS/KWH
6/1/2019 - 6/30/2019	PURCHASED POWER ADJUSTMENT CLAUSE	2.4806 CENTS/KWH
6/1/2019-5/31/2020	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.9376 CENTS/KWH
7/1/2019 - 7/31/2019	PURCHASED POWER ADJUSTMENT CLAUSE	2.6543 CENTS/KWH
7/1/2019 - 12/31/2019	GREEN INFRASTRUCTURE FEE	1.17 DOLLARS/MONTH
7/1/2019 - 12/31/2019	RESID. PBF SURCHARGE ADJUSTMENT	0.4658 CENTS/KWH
8/1/2019 - 8/31/2019	PURCHASED POWER ADJUSTMENT CLAUSE	2.8165 CENTS/KWH
8/1/2019 - 1/31/2020	RESIDENTIAL DSM ADJUSTMENT	0.0000 CENTS/KWH
9/1/2019 - 9/30/2019	PURCHASED POWER ADJUSTMENT CLAUSE	2.8061 CENTS/KWH
10/1/2019-10/31/2019	PURCHASED POWER ADJUSTMENT CLAUSE	2.8008 CENTS/KWH
11/1/2019 - 11/30/2019	PURCHASED POWER ADJUSTMENT CLAUSE	2.2849 CENTS/KWH
11/1/2019 - 1/31/2020	RESIDENTIAL DEMAND RESPONSE ADJUSTMENT CLAUSE (DRAC)	0.0000 CENTS/KWH
12/1/2019 - 12/31/2019	PURCHASED POWER ADJUSTMENT CLAUSE	2.2980 CENTS/KWH
1/1/2020 - 1/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE	0.0000 CENTS/KWH
1/1/2020-6/30/2020	RESID. PBF SURCHARGE ADJUSTMENT	0.7437 CENTS/KWH
1/1/2020-6/30/2020	GREEN INFRASTRUCTURE FEE	1.25 DOLLARS/MONTH
2/1/2020-4/30/2020	RESIDENTIAL DEMAND RESPONSE ADJUSTMENT CLAUSE (DRAC)	-0.0116 CENTS/KWH
2/1/2020-4/30/2020	RESIDENTIAL DSM ADJUSTMENT	0.0651 CENTS/KWH
2/1/2020 - 2/29/2020	PURCHASED POWER ADJUSTMENT CLAUSE	2.4197 CENTS/KWH
3/1/2020 - 3/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE	2.4281 CENTS/KWH
3/1/2020-7/31/2020	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0158 CENTS/KWH
4/1/2020 - 4/30/2020	PURCHASED POWER ADJUSTMENT CLAUSE	2.4087 CENTS/KWH
4/1/2020 - 4/30/2020	SOLAR SAVER ADJUSTMENT	0.0000 CENTS/KWH
5/1/2020-3/31/2021	SOLAR SAVER ADJUSTMENT	0.0000 CENTS/KWH
5/1/2020-5/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE	2.6029 CENTS/KWH
5/1/2020-7/31/2020	RESIDENTIAL DEMAND RESPONSE ADJUSTMENT CLAUSE (DRAC)	0.0096 CENTS/KWH
5/1/2020-7/31/2020	RESIDENTIAL DSM ADJUSTMENT	-0.0011 CENTS/KWH
6/1/2020-6/30/2020	PURCHASED POWER ADJUSTMENT CLAUSE	2.6114 CENTS/KWH
6/1/2020-5/31/2021	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.5773 CENTS/KWH
7/1/2020-7/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE	2.7433 CENTS/KWH
7/1/2020-12/31/2020	GREEN INFRASTRUCTURE FEE	1.19 DOLLARS/MONTH
7/1/2020-6/30/2021	RESID. PBF SURCHARGE ADJUSTMENT	0.6478 CENTS/KWH
8/1/2020-8/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE	2.5796 CENTS/KWH
8/1/2020-10/31/2020	RESIDENTIAL DEMAND RESPONSE ADJUSTMENT CLAUSE (DRAC)	-0.0006 CENTS/KWH
8/1/2020-10/31/2020	RESIDENTIAL DSM ADJUSTMENT	0.0008 CENTS/KWH
8/1/2020-7/31/2021	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0282 CENTS/KWH
9/1/2020-9/30/2020	PURCHASED POWER ADJUSTMENT CLAUSE	2.5362 CENTS/KWH
10/1/2020-10/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE	2.5237 CENTS/KWH
11/1/2020-11/30/2020	PURCHASED POWER ADJUSTMENT CLAUSE	2.0219 CENTS/KWH
11/1/2020-1/31/2021	RESIDENTIAL DEMAND RESPONSE ADJUSTMENT CLAUSE (DRAC)	-0.0099 CENTS/KWH
11/1/2020-1/31/2021	RESIDENTIAL DSM ADJUSTMENT	-0.0137 CENTS/KWH
12/1/2020-12/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE	1.9552 CENTS/KWH
1/1/2021-1/31/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.0114 CENTS/KWH
1/1/2021-6/30/2021	GREEN INFRASTRUCTURE FEE	1.25 DOLLARS/MONTH
2/1/2021-2/28/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.2974 CENTS/KWH
2/1/2021-4/30/2021	RESIDENTIAL DEMAND RESPONSE ADJUSTMENT CLAUSE (DRAC)	-0.0044 CENTS/KWH
2/1/2021-4/30/2021	RESIDENTIAL DSM ADJUSTMENT	0.1242 CENTS/KWH
3/1/2021-3/31/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.3031 CENTS/KWH
4/1/2021-4/30/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.3216 CENTS/KWH
4/1/2021-4/30/2021	SOLAR SAVER ADJUSTMENT	-0.0254 CENTS/KWH
5/1/2021-5/31/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.5310 CENTS/KWH
5/1/2021	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	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	GREEN INFRASTRUCTURE FEE	1.19 DOLLARS/MONTH
7/1/2021	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	RESIDENTIAL DEMAND RESPONSE ADJUSTMENT CLAUSE (DRAC)	-0.0020 CENTS/KWH
8/1/2021	RESIDENTIAL DSM ADJUSTMENT	0.2201 CENTS/KWH
8/1/2021	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0158 CENTS/KWH
9/1/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.7433 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			
	8/1/2021	9/1/2021	8/1/2021	9/1/2021	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 kWhr per month	¢/kWh	10.6812	10.6812	37.38	37.38	0.00
Next 850 kWhr 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	2.7556	2.7433	13.78	13.72	-0.06
RBA Rate Adjustment	¢/kWh	1.1469	1.1469	5.73	5.73	0.00
DSM Adjustment	¢/kWh	0.2201	0.2201	1.10	1.10	0.00
Demand Response Adjustment Clause	¢/kWh	-0.0020	-0.0020	-0.01	-0.01	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	0.6478	0.6478	3.24	3.24	0.00
Renewable Energy Infrastructure Cost						
Recovery Provision	¢/kWh	0.0158	0.0158	0.08	0.08	0.00
SolarSaver Adjustment	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
Energy Cost Recovery	¢/kWh	14.076	14.227	70.38	71.14	0.76
Green Infrastructure Fee	\$	1.19	1.19	1.19	1.19	0.00
Avg Residential Bill at 500 kWh				162.12	162.82	

Increase / (Decrease -)	0.70
% Change	0.43%

	Rate		Charge (\$) at 600 kWh			
	8/1/2021	9/1/2021	8/1/2021	9/1/2021	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 kWhr per month	¢/kWh	10.6812	10.6812	37.38	37.38	0.00
Next 850 kWhr 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	2.7556	2.7433	16.53	16.46	-0.07
RBA Rate Adjustment	¢/kWh	1.1469	1.1469	6.88	6.88	0.00
DSM Adjustment	¢/kWh	0.2201	0.2201	1.32	1.32	0.00
Demand Response Adjustment Clause	¢/kWh	-0.0020	-0.0020	-0.01	-0.01	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	0.6478	0.6478	3.89	3.89	0.00
Renewable Energy Infrastructure Cost						
Recovery Provision	¢/kWh	0.0158	0.0158	0.09	0.09	0.00
SolarSaver Adjustment	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
Energy Cost Recovery	¢/kWh	14.076	14.227	84.46	85.36	0.90
Green Infrastructure Fee	\$	1.19	1.19	1.19	1.19	0.00
Avg Residential Bill at 600 kWh				192.82	193.65	

Increase / (Decrease -)	0.83
% Change	0.43%

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