



September 28, 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 October 2021

Hawaiian Electric Company, Inc.'s ("Hawaiian Electric" or "Company") October 2021 Energy Cost Recovery Factor is 14.327 cents per kilowatt-hour ("kWh"), an increase of 0.100 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$163.32, an increase of \$0.50 compared to rates effective September 1, 2021. The increase in the residential typical bill is due to an increase in the Energy Cost Recovery Factor (+\$0.50).

The Company's fuel composite cost of major energy increased 12.54 cents per million BTU to 1,427.35 cents per million BTU. The Company's composite cost of minor energy increased 1.872 cents per kWh to 14.569 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 October 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 increased 0.125 cents per kWh to 10.273 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 October 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>09/01/21</u>	<u>10/01/21</u>	
Composite Cost Of Major Energy, ¢/mmbtu	1,414.81	1,427.35	12.54
Composite Cost Of Minor Energy, ¢/kwh	12.696	14.569	1.872
Composite Cost Of Purchased Energy, ¢/kWh	10.148	10.273	0.125
 <u>Residential, Schedule "R"</u>			
Energy Cost Recovery, ¢/kWh	14.227	14.327	0.100
 <u>Others, Schedules "G,J,DS,P,F"</u>			
Energy Cost Recovery, ¢/kWh	14.227	14.327	0.100
 <u>Residential Customer with:</u>			
500 kWh Consumption, \$/bill	162.82	163.32	0.50
600 kWh Consumption, \$/bill	193.65	194.25	0.60

Supersedes Sheet Effective:

September 1, 2021

Hawaiian Electric Company, Inc.
ENERGY COST RECOVERY FILING

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

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

GENERATION COMPONENT

<u>MAJOR ENERGY COMPONENT</u>				<u>MINOR ENERGY COMPONENT</u>			
				Gen Cost	Percent of	Weighted Gen	
				<u>\$/KWH</u>	<u>Minor Energy</u>	<u>Cost \$/KWH</u>	
FUEL PRICES, \$/mmbtu				<u>Fuel Type</u>			
3	Honolulu	0.00		32a Airport DG	24.49	3.54%	0.8662
4	Kahe	1,427.35		32b CIP-Biodiesel	0.00	0.00%	0.0000
5	Waiau-Steam	1,427.35		32c CT-1 (CIP) ULSD	41.94	5.57%	2.3366
6	(Future Use)	0.00		32d SGS - Biodiesel	21.65	28.67%	6.2068
7	(Future Use)	0.00		32e SGS - ULSD	18.20	0.30%	0.0539
8	(Future Use)	0.00		32f Waiau-Diesel	35.18	14.51%	5.1051
9	Other	0		32g West Loch PV	0.00	47.42%	0.0000
				32h COMPOSITE COST OF MINOR ENERGY, \$/kWh			14.569
10	Honolulu	0.00		33 % Input to System kWh Mix			1.30
11	Kahe	70.56					
12	Waiau-Steam	29.44		34 WTD COMP MINOR ENERGY COST, \$/kWh (Lines 32h x 33)			0.18939
13	(Future Use)	0.00					
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)			0.19867
16	Other	0.00					
100.00				37 BASE MINOR ENERGY COMP COST			0.0000
17	COMPOSITE COST OF GENERATION, MAJOR ENERGY \$/mmbtu	1,427.35		38 Base % Input to System kWh Mix			0.0000
18	% Input to system kWh Mix	46.01		39 WTD BASE MINOR ENERGY COST, \$/kWh (Line 37 x 38)			0.00000
EFFICIENCY FACTOR, mmbtu/kWh				40 2017 TY Loss Factor			1.0490
(A)	(B)	(C)	(D)	41 WTD COMP MINOR ENERGY COST, \$/kWh (Line 39 x 40)			0.00000
<u>Fuel Type</u>	<u>Eff Factor mmbtu/kWh</u>	<u>Percent of Centrl Stn + Other</u>	<u>Weighted Eff Factor</u>	42 Cost Less Base (Line 36 - 41)			0.198670
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)				43 Revenue Tax Adjustment (1 / (1-0.08885))			1.097514
23	Weighted Efficiency Factor, mmbtu/kWh [lines 19(D) + 20(D) + 21(D) + 22(D)]		0.011142	44 MINOR ENERGY FACTOR, \$/kWh (Line 42 x 43)			0.21804
24	WEIGHTED MAJOR ENERGY COST, \$/kWh Sales (lines 17 x 18 x 23)		7.31722				
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)		7.31722				
30	Revenue Tax Adjustment (1 / (1-0.08885))		1.097514				
31	MAJOR ENERGY GENERATION FACTOR, \$/KWH (Line 29 x 30)		8.03075				

SUMMARY OF TOTAL GENERATION FACTOR, \$/kWh	
45 MAJOR ENERGY (line 31)	8.03075
46 MINOR ENERGY (line 44)	- 0.21804
47 TOTAL GENERATION FACTOR, \$/KWH (lines 45 + 46)	- 8.24879

Hawaiian Electric Company, Inc.
ENERGY COST RECOVERY FILING

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

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

Line	PURCHASED ENERGY COMPONENT		
	PURCHASED ENERGY PRICE - FOSSIL - ¢/KWH		
48	PAR Hawaii	- On Peak	9.503
49	PAR Hawaii	- Off Peak	13.146
50	IES Downstream		0.000
51	Kalaeloa		13.218
52	AES-HI		3.516
53			
	PURCHASED ENERGY PRICE - RENEWABLE - ¢/KWH		
54	HRRV	- On Peak	18.14
55		- Off Peak	17.62
56	HRRV	- On Peak (excess)	11.55
57		- Off Peak (excess)	6.93
58	Kawaiiloa Wind		23.07
59	Kahuku Wind		21.64
60	Waianae Solar PV		14.50
61	As Available I		23.12
62	FIT		23.74
63	CBRE PV		15.00
64	Kawaiiloa PV		12.73
65	Lanikuhana PV		13.05
66	Waipio PV		12.18
67	Na Pua Makani Wind		13.93
	PURCHASED ENERGY KWH MIX - FOSSIL - %		
68	PAR Hawaii	- On Peak	0.23
69	PAR Hawaii	- Off Peak	0.16
70	IES Downstream		0.03
71	Kalaeloa		30.19
72	AES-HI		40.20
73			
73a	Subtotal Fossil %		70.81
	PURCHASED ENERGY KWH MIX - RENEWABLE - %		
74	HRRV	- On Peak	6.64
75		- Off Peak	2.55
76	HRRV	- On Peak (excess)	0.00
77		- Off Peak (excess)	2.30
78	Kawaiiloa Wind		2.67
79	Kahuku Wind		1.74
80	Waianae Solar PV		1.73
81	As Available I		0.58
82	FIT		2.01
83	CBRE PV		0.04
84	Kawaiiloa PV		2.92
85	Lanikuhana PV		0.88
86	Waipio PV		2.73
87	Na Pua Makani Wind		2.39
87a	Subtotal Renewable %		29.19
87b	Total Purchased Energy %		100.00
87c	Composite Cost of Purchased Energy, Fossil		7.69
87d	Composite Cost of Purchased Energy, Renewable		16.54
88	COMPOSITE COST OF PURCHASED ENERGY, ¢/KWH		10.273
89	% Input to System kWh Mix		52.69
90	WTD CMP PURCH ENRGY COST, ¢/KWH (lines 88 x 89)		5.41284
91	2017 TY Loss Factor		1.0490
92	WTD CMP PURCH ENRGY COST, ¢/KWH (lines 90 x 91)		5.67807
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)		5.67807
99	Revenue Tax Adjustment (1 / (1-0.08885))		1.097514
100	PURCHASED ENERGY FACTOR, ¢/KWH (lines 98 x 99)		6.23176

Line	Calculation of Monthly Fossil Fuel Cost Risk Sharing Component		
	Baseline LSFO		
101	LSFO \$, baseline month		\$26,119,028
102	LSFO mmbtu, baseline		2,936,857
103	Baseline LSFO, ¢/mmbtu		889.35
	Baseline Diesel		
104	Diesel \$, baseline month		\$1,959,475
105	Diesel mmbtu, baseline		205,718
106	Baseline Diesel, ¢/mmbtu		952.51
	Month LSFO		
107	LSFO mmbtu, budget		2,828,345
108	LSFO Cost, ¢/mmbtu		1,426.05
109	LSFO ECRC Fossil Cost		\$40,333,675
110	LSFO Base ECRC Recovery Target		\$25,153,971
111	LSFO differential		\$15,179,704
	Month Diesel		
112	Diesel mmbtu, budget		36,814
113	Diesel Cost, ¢/mmbtu		1,496.32
114	Diesel ECRC Fossil Cost		\$550,858
115	Diesel Base ECRC Recovery Target		\$350,656
116	Diesel differential		\$200,202
117	Total Fossil		\$15,379,906
118	2% of above		\$307,598
118A	Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year		\$1,566,619
118B	Maximum Annual Cap (bi-directional)		\$2,500,000
118C	Applicable Monthly Fossil Fuel Cost Risk Sharing		\$307,598
118D	Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month		\$1,874,217
119	Fossil Cost Risk Sharing before taxes		\$307,598
120	Revenue Tax Adjustment		1.097514
121	Fossil Cost Risk Sharing w/revenue tax		\$337,593
122	Forecasted Month MWh Sales		542,511
123	Fossil Fuel Cost Risk Sharing Component, ¢/kWh		-0.0622
	Derivation of Non-Adjustable Component:		
80A	Fuel Handling Exp, \$000		\$7,604.5
	Final Settlement, HECO-603, p1		
80B	Revenue Tax Adjustment		1.097514
80C	Non-Adj Revenues, \$000		\$8,346.0
80D	2017 TY Sales, MWh		6,660,200
	HECO-301, p1		
80E	Non-Adj Revenues, ¢/kWh		0.12531
	Line SYSTEM COMPOSITE		
124	GEN AND PURCHASED ENERGY FACTOR, ¢/kWh (lines 47 + 100)		14.4806
125	(Future Use) Adjustment, ¢/kWh		0.0000
126	ECR Reconciliation Adjustment		(0.2170)
127	Non-Adjustable Component (line 80E)		0.1253
128	Fossil Fuel Cost Risk Sharing Component (line 123)		-0.0622
129	Monthly Energy Cost Recovery Factor (lines 124 + 125 + 126 + 127 + 128)		14.327

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

	Honolulu	Kahe	Waiau
Average Low Sulfur Fuel Oil, ¢/Mbtu	1,426.05	1,426.05	1,426.05
Fuel Additive, ¢/Mbtu	-	1.30	1.30
Honolulu Trucking Cost, ¢/Mbtu	-	-	-
Low Sulfur Fuel Oil Prices Used For Filing, ¢/Mbtu	1,426.05	1,427.35	1,427.35
	Waiau	CIP Biodiesel	CIP Diesel
Average Diesel / Biodiesel Oil, ¢/Mbtu	1,478.55	-	1,527.57
Thruput Charges, ¢/Mbtu	-	-	0
Diesel / Biodiesel Oil Prices Used for Filing, ¢/Mbtu	1,478.55	-	1,527.57
	SGS ULSD	SGS Biodiesel	
Average Diesel / Biodiesel Oil, ¢/Mbtu	2,000.71	2,456.60	
Thruput Charges, ¢/Mbtu	-	-	
Diesel / Biodiesel Oil Prices Used for Filing, ¢/Mbtu	2,000.71	2,456.60	
	Honolulu	Kahe	Waiau
Average Low Sulfur Fuel Oil, \$/bbl	88.76	88.76	88.76
Fuel Additive, \$/bbl	-	0.08	0.08
Honolulu Trucking Cost, \$/bbl	-	-	-
Low Sulfur Fuel Oil Prices Used For Filing, \$/bbl	88.76	88.84	88.84
	Waiau	CIP Biodiesel	CIP Diesel
Average Diesel / Biodiesel Oil, \$/bbl	84.77	-	86.49
Thruput Charges, ¢/Mbtu	-	-	-
Diesel / Biodiesel Oil Prices Used for Filing, \$/bbl	84.77	-	86.49
	SGS ULSD	SGS Biodiesel	
Average Diesel / Biodiesel Oil, \$/bbl	115.96	129.70	
Thruput Charges, ¢/Mbtu	-	-	
Diesel / Biodiesel Oil Prices Used for Filing, \$/bbl	115.96	129.70	
Distributed Generation Fuel Prices Used for Filing, ¢/kWh			24.490

FOAC October 1, 2021

<u>LSFO</u>	BARRELS	MBTU	AMOUNT	AVE \$/MBTU
Per FOAC run	695,097	4,326,325	61,695,648	14.260522
Additional	-	-	-	-
Forecast Amt	695,097	4,326,325	61,695,648	14.260522
	-	6.20	-	ADD'L BBL
	4,326,325	695,097	6.2241	MBTU / BBL
	61,695,648	695,097	88.76	DOLLARS / BBL
<u>WAI AU DIESEL</u>	21,870	125,386	1,853,886	14.785454
	1,853,886	21,870	84.77	DOLLARS / BBL
<u>CIP BIODIESEL</u>	-	-	-	-
	-	-	-	DOLLARS / BBL
<u>CIP DIESEL</u>	38,909	220,294	3,365,146	15.275696
	3,365,146	38,909	86.49	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>	5,942	31,371	770,665	24.56598915
	770,665	5,942	129.70	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)	\$	23.99	\$	24.57	\$	20.01	Estimated Distributed Generation Fuel Cost (\$/MBTU)
(B)		2654		18,571		198	Estimated MBTU Consumption
(B1)		506		3,539		35	Estimated fuel consumption barrels
(C) = (A) x (B)		\$63,669		\$456,215		\$3,963	Estimated Distributed Generation Fuel Cost (\$)
(D)		259,946		2,107,040		21,773	Estimated Distributed Generation kWh
(E) = ((C) ÷ (D)) x 100		<u>24.490</u>		<u>21.650</u>		<u>18.200</u>	¢/kWh

Hawaiian Electric Company, Inc.
ECA RECONCILIATION ADJUSTMENT
October 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 (October 2021)		542,511
6.	ECA Reconciliation Adjustment, ¢/kWh (Line 4 ÷ Line 5)		<u><u>(0.217)</u></u>

HAWAIIAN ELECTRIC COMPANY, INC.
2021 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 '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)	(1,069,958)	2,180,647
September					(1,072,933)		
October					(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
October 1, 2021	14.327	163.32	194.25

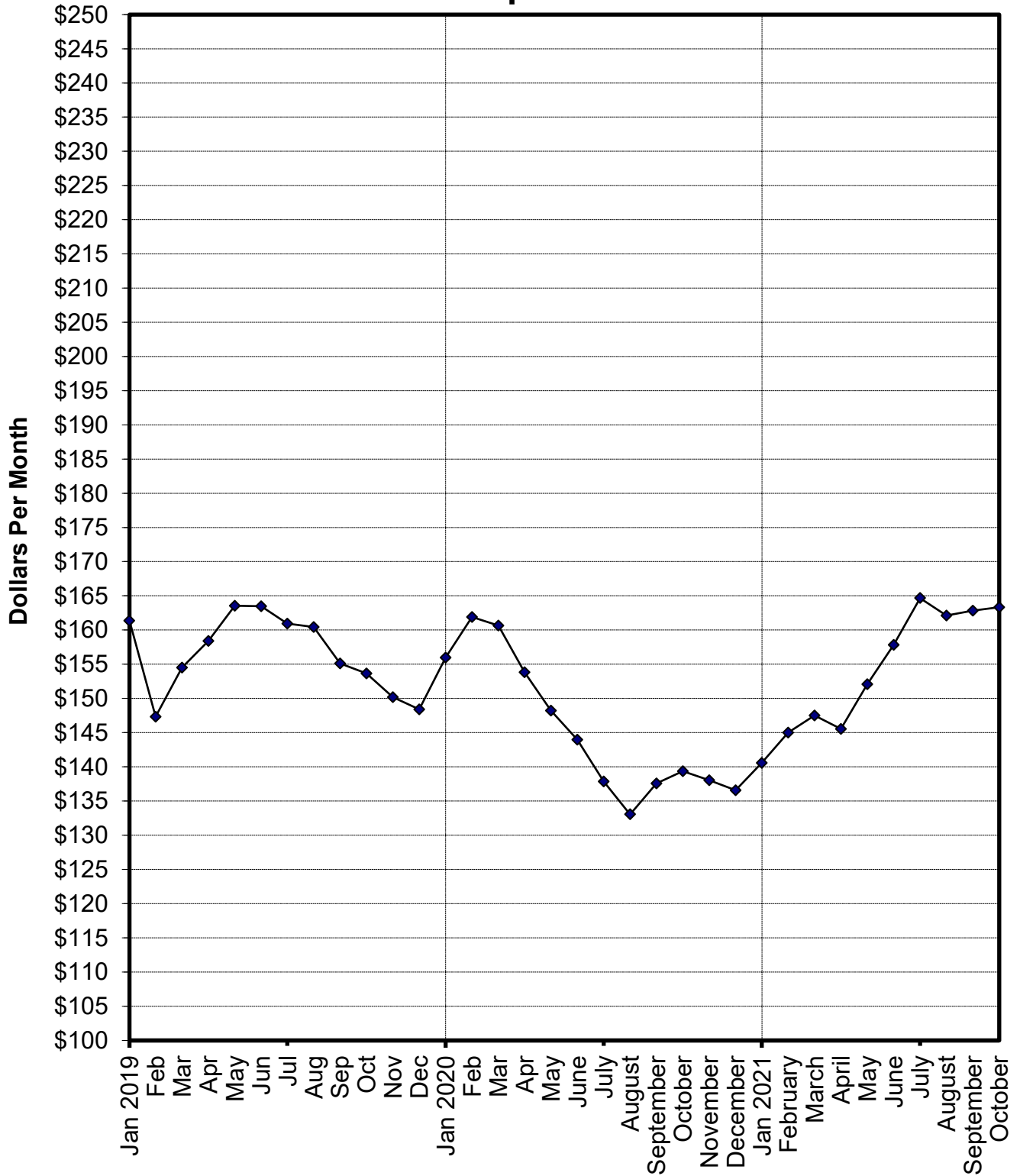
Hawaiian Electric Company, Inc.
RESIDENTIAL SURCHARGE DATA

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	2.7430 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	0.5882 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
9/1/2021-9/30/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.7433 CENTS/KWH
10/1/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.7430 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			
	9/1/2021	10/1/2021	9/1/2021	10/1/2021	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 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	2.7433	2.7430	13.72	13.72	0.00
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	14.227	14.327	71.14	71.64	0.50
Green Infrastructure Fee	\$	1.19	1.19	1.19	1.19	0.00
Avg Residential Bill at 500 kWh			162.82	163.32		

Increase / (Decrease -)	0.50
% Change	0.31%

	Rate		Charge (\$) at 600 kWh			
	9/1/2021	10/1/2021	9/1/2021	10/1/2021	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 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	2.7433	2.7430	16.46	16.46	0.00
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	14.227	14.327	85.36	85.96	0.60
Green Infrastructure Fee	\$	1.19	1.19	1.19	1.19	0.00
Avg Residential Bill at 600 kWh			193.65	194.25		

Increase / (Decrease -)	0.60
% Change	0.31%

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