



September 28, 2020

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 2020

Hawaiian Electric Company, Inc.'s ("Hawaiian Electric" or "Company") October 2020 Energy Cost Recovery Factor is 10.589 cents per kilowatt-hour ("kWh"), an increase of 0.369 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$139.36, an increase of \$1.79 compared to rates effective September 1, 2020. The increase in the residential typical bill is due to an increase in the Energy Cost Recovery Factor (\$1.85), 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 75.02 cents per million BTU to 941.59 cents per million BTU. The Company's composite cost of minor energy increased 2.470 cents per kWh to 13.185 cents per kWh. The composite cost of purchased energy decreased 0.111 cents per kWh to 8.305 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, 2020.

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>09/01/20</u>	<u>10/01/20</u>	
Composite Cost Of Major Energy, ¢/mmbtu	866.57	941.59	75.02
Composite Cost Of Minor Energy, ¢/kwh	10.715	13.185	2.470
Composite Cost Of Purchased Energy, ¢/kWh	8.416	8.305	(0.111)
 <u>Residential, Schedule "R"</u>			
Energy Cost Recovery, ¢/kWh	10.220	10.589	0.369
 <u>Others, Schedules "G,J,DS,P,F"</u>			
Energy Cost Recovery, ¢/kWh	10.220	10.589	0.369
 <u>Residential Customer with:</u>			
500 kWh Consumption, \$/bill	137.57	139.36	1.79
600 kWh Consumption, \$/bill	163.36	165.49	2.13

Supersedes Sheet Effective:

September 1, 2020

Hawaiian Electric Company, Inc.
ENERGY COST RECOVERY FILING

ENERGY COST RECOVERY (ECR) FILING - October 1, 2020 (page 1 of 2)

Line		
1	Effective Date	- October 1, 2020
2	Supercedes Factor	- September 1, 2020

GENERATION COMPONENT

MAJOR ENERGY COMPONENT				MINOR ENERGY COMPONENT			
				Gen Cost	Percent of	Weighted Gen	
				\$/KWH	Minor Energy	Cost \$/KWH	
FUEL PRICES, \$/mmbtu				Fuel Type			
3	Honolulu	0.00		32a Airport DG	31.84	3.98%	1.2664
4	Kahe	941.59		32b CIP-Biodiesel	0.00	0.00%	0.0000
5	Waiau-Steam	941.59		32c CIP-Diesel	-7.14	-3.57%	0.2550
6	(Future Use)	0.00		32d SGS - Biodiesel	25.59	35.13%	8.9900
7	(Future Use)	0.00		32e SGS - ULSD	18.20	0.30%	0.0548
8	(Future Use)	0.00		32f Waiau-Diesel	43.11	6.07%	2.6187
9	Other	0		32g West Loch PV	0.00	58.09%	0.0000
				32h COMPOSITE COST OF MINOR ENERGY, \$/kWh			
				33 % Input to System kWh Mix			
10	Honolulu	0.00					
11	Kahe	72.04					
12	Waiau-Steam	27.96		34 WTD COMP MINOR ENERGY COST, \$/kWh (Lines 32h x 33)			
13	(Future Use)	0.00					
14	(Future Use)	0.00		35 2017 TY Loss Factor			
15	(Future Use)	0.00		36 WTD COMP MINOR ENERGY COST, \$/kWh (Line 34 x 35)			
16	Other	0.00					
100.00				37 BASE MINOR ENERGY COMP COST			
				38 Base % Input to System kWh Mix			
17	COMPOSITE COST OF GENERATION, MAJOR ENERGY \$/mmbtu			39 WTD BASE MINOR ENERGY COST, \$/kWh (Line 37 x 38)			
18	% Input to system kWh Mix			40 2017 TY Loss Factor			
				41 WTD COMP MINOR ENERGY COST, \$/kWh (Line 39 x 40)			
				42 Cost Less Base (Line 36 - 41)			
				43 Revenue Tax Adjustment (1 / (1-0.08885))			
				44 MINOR ENERGY FACTOR, \$/kWh (Line 42 x 43)			
				0.15163			
				1.0490			
				0.15906			
				0.0000			
				0.0000			
				0.00000			
				0.00000			
				0.00000			
				0.00000			
				0.011142			
				0.000000			
				0.000000			
				0.000000			
				0.011142			
				100.00			
				0.00			
				0.000000			
				0.000000			
				0.000000			
				0.00			
				0.011142			
				4.78189			
				0.00			
				0.0000			
				0.000000			
				0.00000			
				4.78189			
				1.097514			
				5.24819			
				0.0000			
				4.78189			
				1.097514			
				5.24819			

SUMMARY OF TOTAL GENERATION FACTOR, \$/kWh	
45 MAJOR ENERGY (line 31)	5.24819
46 MINOR ENERGY (line 44)	- 0.17457
47 TOTAL GENERATION FACTOR, \$/KWH (lines 45 + 46)	- 5.42276

Hawaiian Electric Company, Inc.
ENERGY COST RECOVERY FILING

ENERGY COST RECOVERY (ECR) FILING - October 1, 2020 (page 2 of 2)

Line

1 **Effective Date** - October 1, 2020
2 **Supercedes Factor** - September 1, 2020

Line	PURCHASED ENERGY COMPONENT		
	PURCHASED ENERGY PRICE - FOSSIL - ¢/KWH		
48	PAR Hawaii	- On Peak	7.995
49	PAR Hawaii	- Off Peak	8.463
50	IES Downstream		0.000
51	Kalaeloa		7.230
52	AES-HI		3.428
53			
	PURCHASED ENERGY PRICE - RENEWABLE - ¢/KWH		
54	HRRV	- On Peak	17.95
55		- Off Peak	17.43
56	HRRV	- On Peak (excess)	11.43
57		- Off Peak (excess)	6.86
58	Kawaiiloa Wind		22.73
59	Kahuku Wind		21.33
60	Waianae Solar PV		14.50
61	As Available I		22.72
62	FIT		23.75
63	CBRE PV		15.00
64	Kawaiiloa PV		12.73
65	Lanikuhana PV		13.05
66	Waipio PV		12.18
67	Unused		0.00
	PURCHASED ENERGY KWH MIX - FOSSIL - %		
68	PAR Hawaii	- On Peak	0.20
69	PAR Hawaii	- Off Peak	0.14
70	IES Downstream		0.02
71	Kalaeloa		26.45
72	AES-HI		40.66
73			
73a	Subtotal Fossil %		67.47
	PURCHASED ENERGY KWH MIX - RENEWABLE - %		
74	HRRV	- On Peak	7.19
75		- Off Peak	2.63
76	HRRV	- On Peak (excess)	0.00
77		- Off Peak (excess)	2.86
78	Kawaiiloa Wind		3.46
79	Kahuku Wind		2.19
80	Waianae Solar PV		1.64
81	As Available I		0.59
82	FIT		2.17
83	CBRE PV		0.00
84	Kawaiiloa PV		3.17
85	Lanikuhana PV		0.95
86	Waipio PV		2.97
87	Unused		2.74
87a	Subtotal Renewable %		32.53
87b	Total Purchased Energy %		100.00
87c	Composite Cost of Purchased Energy, Fossil		4.94
87d	Composite Cost of Purchased Energy, Renewable		15.28
88	COMPOSITE COST OF PURCHASED ENERGY, ¢/KWH		8.305
89	% Input to System kWh Mix		53.27
90	WTD CMP PURCH ENRGY COST, ¢/KWH (lines 88 x 89)		4.42407
91	2017 TY Loss Factor		1.0490
92	WTD CMP PURCH ENRGY COST, ¢/KWH (lines 90 x 91)		4.64085
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)		4.64085
99	Revenue Tax Adjustment (1 / (1-0.08885))		1.097514
100	PURCHASED ENERGY FACTOR, ¢/KWH (lines 98 x 99)		5.09340

Line	Calculation of Monthly Fossil Fuel Cost Risk Sharing Component		
	Baseline LSFO (Actual)		
101	LSFO \$, baseline month		\$43,537,044
102	LSFO mmbtu, baseline		3,600,297
103	Baseline LSFO, ¢/mmbtu		1209.26
	Baseline Diesel (Actual)		
104	Diesel \$, baseline month		\$2,926,612
105	Diesel mmbtu, baseline		195,326
106	Baseline Diesel, ¢/mmbtu		1,498.32
	Month LSFO		
107	LSFO mmbtu, budget		2,732,619
108	LSFO Cost, ¢/mmbtu		941.59
109	LSFO ECRC Fossil Cost		\$25,730,095
110	LSFO Base ECRC Recovery Target		\$33,044,536
111	LSFO differential		-\$7,314,441
	Month Diesel		
112	Diesel mmbtu, budget		17,634
113	Diesel Cost, ¢/mmbtu		1,041.52
114	Diesel ECRC Fossil Cost		\$183,660
115	Diesel Base ECRC Recovery Target		\$264,212
116	Diesel differential		-\$80,551
117	Total Fossil		-\$7,394,992
118	2% of above		-\$147,900
118A	Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year		-\$1,112,820
118B	Maximum Annual Cap (bi-directional)		\$2,500,000
118C	Applicable Monthly Fossil Fuel Cost Risk Sharing		-\$147,900
118D	Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month		-\$1,260,719
119	Fossil Cost Risk Sharing before taxes		-\$147,900
120	Revenue Tax Adjustment		1.097514
121	Fossil Cost Risk Sharing w/revenue tax		-\$162,322
122	Forecasted Month MWh Sales		520,756
123	Fossil Fuel Cost Risk Sharing Component, ¢/kWh		0.0312
	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)		10.5162
125	(Future Use) Adjustment, ¢/kWh		0.0000
126	ECR Reconciliation Adjustment		(0.0840)
127	Non-Adjustable Component (line 80E)		0.1253
128	Fossil Fuel Cost Risk Sharing Component (line 123)		0.0312
129	Monthly Energy Cost Recovery Factor (lines 124 + 125 + 126 + 127 + 128)		10.589

Hawaiian Electric Company, Inc.
FUEL OIL INVENTORY PRICES FOR October 1, 2020

	Honolulu	Kahe	Waiau
Average Low Sulfur Fuel Oil, ¢/Mbtu	940.29	940.29	940.29
Fuel Additive, ¢/Mbtu	-	1.30	1.30
Honolulu Trucking Cost, ¢/Mbtu	-	-	-
Low Sulfur Fuel Oil Prices Used For Filing, ¢/Mbtu	940.29	941.59	941.59
	Waiau	CIP Biodiesel	CIP Diesel
Average Diesel / Biodiesel Oil, ¢/Mbtu	1,039.32	-	963.24
Thruput Charges, ¢/Mbtu	-	-	0
Diesel / Biodiesel Oil Prices Used for Filing, ¢/Mbtu	1,039.32	-	963.24
	SGS ULSD	SGS Biodiesel	
Average Diesel / Biodiesel Oil, ¢/Mbtu	2,000.71	3,027.34	
Thruput Charges, ¢/Mbtu	-	-	
Diesel / Biodiesel Oil Prices Used for Filing, ¢/Mbtu	2,000.71	3,027.34	
	Honolulu	Kahe	Waiau
Average Low Sulfur Fuel Oil, \$/bbl	58.26	58.26	58.26
Fuel Additive, \$/bbl	-	0.08	0.08
Honolulu Trucking Cost, \$/bbl	-	-	-
Low Sulfur Fuel Oil Prices Used For Filing, \$/bbl	58.26	58.34	58.34
	Waiau	CIP Biodiesel	CIP Diesel
Average Diesel / Biodiesel Oil, \$/bbl	59.87	-	55.03
Thruput Charges, ¢/Mbtu	-	-	-
Diesel / Biodiesel Oil Prices Used for Filing, \$/bbl	59.87	-	55.03
	SGS ULSD	SGS Biodiesel	
Average Diesel / Biodiesel Oil, \$/bbl	115.96	159.88	
Thruput Charges, ¢/Mbtu	-	-	
Diesel / Biodiesel Oil Prices Used for Filing, \$/bbl	115.96	159.88	
Distributed Generation Fuel Prices Used for Filing, ¢/kWh			31.840

FOAC October 2020

<u>LSFO</u>	BARRELS	MBTU	AMOUNT	AVE \$/MBTU
Per FOAC run	606,066	3,755,062	35,308,515	9.402911
Additional	-	-	-	-
Forecast Amt	606,066	3,755,062	35,308,515	9.402911
	-	6.20	-	ADD'L BBL
	3,755,062	606,066	6.1958	MBTU / BBL
	35,308,515	606,066	58.26	DOLLARS / BBL
<u>WAI AU DIESEL</u>	7,317	42,149	438,067	10.393182
	438,067	7,317	59.87	DOLLARS / BBL
<u>CIP BIODIESEL</u>	-	-	-	-
	-	-	-	DOLLARS / BBL
<u>CIP DIESEL</u>	42,867	244,913	2,359,105	9.632412
	2,359,105	42,867	55.03	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>	6,882	36,345	1,100,295	30.2733647
	1,100,295	6,882	159.88	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.

CONTRACT PRICES EFFECTIVE 9-1-20

<u>TYPE OF OIL BURNED</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>
LOW SULFUR FUEL OIL		
Tax *	3.7615	60.67
Ocean Transportation	0.0000	0.00
Land Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.0000	0.00
DIESEL		
Tax *	4.1197	70.31
Ocean Transportation	0.0000	0.00
Land Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.0000	0.00
ULTRA LOW SULFUR DIESEL		
Tax *	4.2832	74.74
Ocean Transportation	0.0000	0.00
Land Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.0000	0.00
BIODIESEL		
Tax *	7.1400	136.05
Ocean Transportation	0.0000	0.00
Land Transportation	0.0000	0.00
Storage	0.0000	0.00
Wharfage	0.0000	0.00

* Tax includes HGET, Hawaii Use Tax, Liquid Fuel Tax, LUST, Federal Oil Spill Recovery Fee, and Environmental Response, Energy and FS Tax.

Note: Since these components are not accounted for separately in inventory, contract prices for the current month are being provided. Contract prices are considered accurate pending actual delivery of the fuel.

HAWAIIAN ELECTRIC COMPANY, INC.

DETERMINATION OF DISTRIBUTED GENERATION EXPENSE

Line No.		<u>Airport DG</u> <u>Biodiesel</u>	<u>Schofield</u> <u>Biodiesel</u>	<u>Schofield</u> <u>ULSD</u>			
(A)	\$	31.19	\$	30.27	\$	20.01	Estimated Distributed Generation Fuel Cost (\$/MBTU)
(B)		2547		18,622		172	Estimated MBTU Consumption
(B1)		485		3,548		30	Estimated fuel consumption barrels
(C) = (A) x (B)		\$79,440		\$563,756		\$3,436	Estimated Distributed Generation Fuel Cost (\$)
(D)		249,465		2,203,367		18,880	Estimated Distributed Generation kWh
(E) = ((C) ÷ (D)) x 100		<u>31.840</u>		<u>25.590</u>		<u>18.200</u>	¢/kWh

Hawaiian Electric Company, Inc.
ECA RECONCILIATION ADJUSTMENT
October 2020

1.	Amount to be collected	\$	(1,190,957)
2.	Monthly Amount (Line 1 x 1/3)	\$	(396,986)
3.	Revenue Tax Divisor		0.91115
4.	Total (Line 2 / Line 3)	\$	(435,697)
5.	Estimated MWh Sales (October 2020)		520,756
6.	ECA Reconciliation Adjustment, ¢/kWh (Line 4 ÷ Line 5)		<u><u>(0.084)</u></u>

HAWAIIAN ELECTRIC COMPANY, INC.
2020 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	1,190,957	(2)	157,850	1,033,107	(396,986)	(425,414)	1,117,094
September					(396,986)		
October					(396,986)		

NOTES:

- Col(1): Quarterly FOA reconciliation amounts. (Refer to Attachment 4)
A positive number is an over-collection. A negative number is an under-collection.
- Col(2): FOA reconciliation adjustment variance accumulated during the last three months, starting with the fourth prior month; the difference between the estimated recorded sales used to derive the \$/kwh adjustment and the actual recorded sales.
(Col(5)-Col(4))
- Col(3): FOA reconciliation generated in the current quarter. The YTD FOA reconciliation difference minus the adjustment variance. Col(1)-Col(2)
- Col(4): Amount that the FOA reconciliation adjustment is trying to collect. (Col(1) * 1/3)
- Col(5): Actual collected amount. (recorded sales * \$/kwh adjustment/1.09751)
- Col(6): Cumulative balance of the FOA reconciliation (Previous balance + Col(3) + Col(5))

Hawaiian Electric Company, Inc.
ENERGY COST RECOVERY FACTOR DATA

<u>EFFECTIVE DATE</u>	ENERGY COST FACTOR CENTS / KWH		RESIDENTIAL BILL (\$)	
	<u>RESIDENTIAL & COMMERCIAL</u>		<u>@ 500 KWH</u>	<u>@ 600 KWH</u>
January 1, 2018	-1.145		144.26	171.84
February 1, 2018	-0.261		150.24	179.01
March 1, 2018	-0.389		152.06	181.14
April 1, 2018	-0.483		152.06	181.14
May 1, 2018	0.923		149.05	177.53
June 1, 2018	1.529		154.86	184.50
July 1, 2018	1.204		158.27	188.61
August 1, 2018	0.802		158.79	189.22
September 1, 2018	4.201		169.09	201.16
October 1, 2018	4.008		168.13	200.01
November 1, 2018	5.151		167.62	199.40
December 1, 2018	5.553		169.64	201.82
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

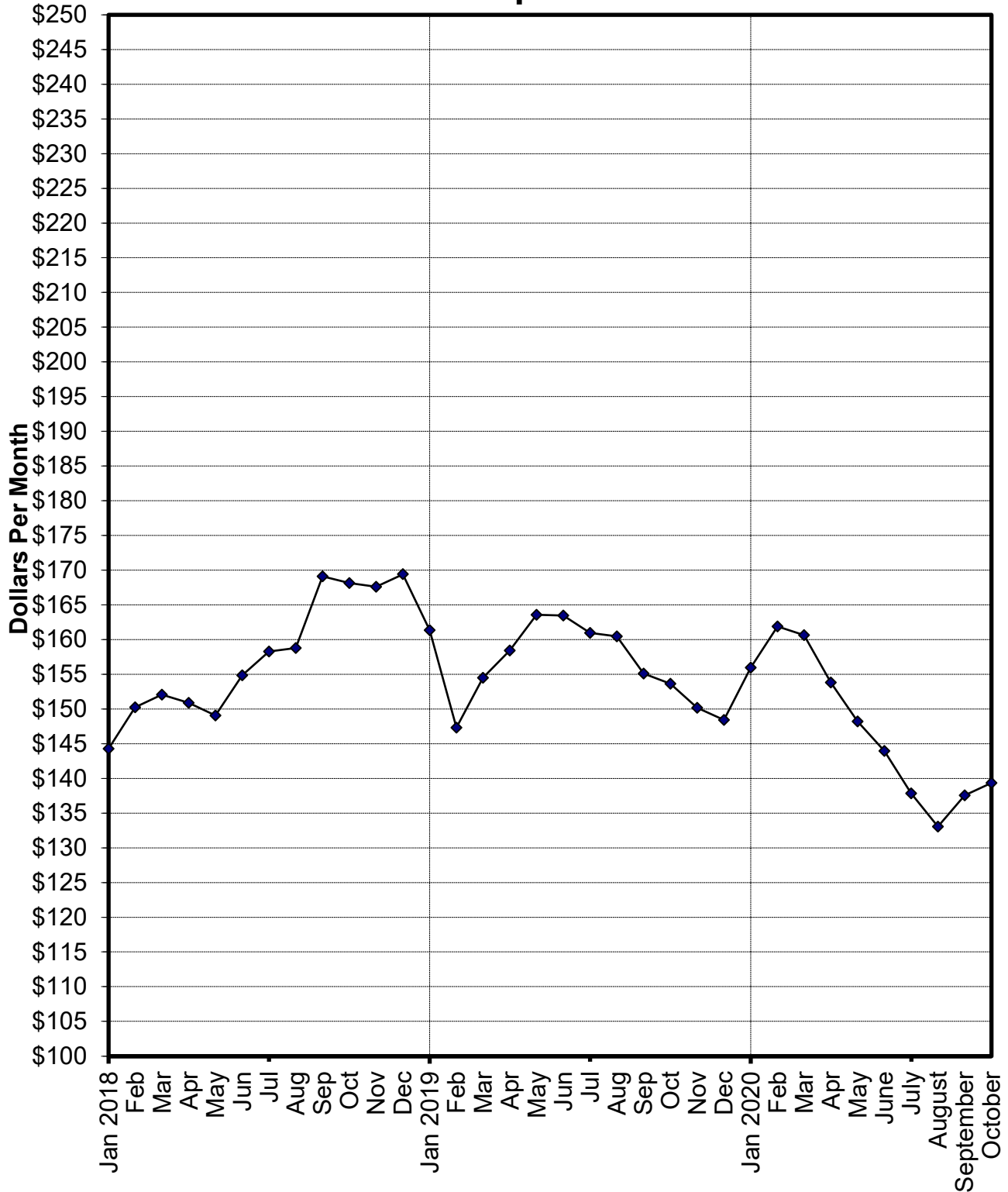
Hawaiian Electric Company, Inc.
RESIDENTIAL SURCHARGE DATA

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
5/15/2016 - 2/29/2020	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0000 CENTS/KWH
1/1/2018 - 1/31/2018	PURCHASED POWER ADJUSTMENT CLAUSE	3.1422 CENTS/KWH
1/1/2018 - 6/30/2018	GREEN INFRASTRUCTURE FEE	1.3400 DOLLARS/MONTH
2/1/2018 - 2/28/2018	PURCHASED POWER ADJUSTMENT CLAUSE	3.4536 CENTS/KWH
2/16/2018 - 04/12/018	INTERIM RATE INCREASE 2017 TEST YEAR	8.8700 PERCENT ON BASE
2/16/2018 - 5/31/2018	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.7116 CENTS/KWH
2/16/2018 - 3/31/2018	RESIDENTIAL DSM ADJUSTMENT	0.0000 CENTS/KWH
3/1/2018 - 3/31/2018	PURCHASED POWER ADJUSTMENT CLAUSE	3.4266 CENTS/KWH
4/1/2018 - 4/30/2018	PURCHASED POWER ADJUSTMENT CLAUSE	3.4413 CENTS/KWH
4/1/2018 - 4/30/2018	SOLAR SAVER ADJUSTMENT	-0.1063 CENTS/KWH
4/1/2018 - 7/31/2018	RESIDENTIAL DSM ADJUSTMENT	-0.0513 CENTS/KWH
4/13/2018 - 8/31/2018	INTERIM RATE INCREASE 2017 TEST YEAR	5.8900 PERCENT ON BASE
5/1/2018 - 3/31/19	SOLAR SAVER ADJUSTMENT	0.0000 CENTS/KWH
5/1/2018 - 5/31/2018	PURCHASED POWER ADJUSTMENT CLAUSE	2.2718 CENTS/KWH
6/1/2018 - 6/30/2018	PURCHASED POWER ADJUSTMENT CLAUSE	2.5042 CENTS/KWH
6/1/2018 - 5/31/2019	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.0350 CENTS/KWH
7/1/2018 - 12/31/2018	GREEN INFRASTRUCTURE FEE	1.2100 DOLLARS/MONTH
7/1/2018 - 6/30/2019	RESID. PBF SURCHARGE ADJUSTMENT	0.4658 CENTS/KWH
7/1/2018 - 7/31/2018	PURCHASED POWER ADJUSTMENT CLAUSE	3.4959 CENTS/KWH
8/1/2018 - 8/31/2018	PURCHASED POWER ADJUSTMENT CLAUSE	3.9557 CENTS/KWH
8/1/2018 - 10/31/2018	RESIDENTIAL DSM ADJUSTMENT	-0.0064 CENTS/KWH
9/1/2018 - 9/30/2018	PURCHASED POWER ADJUSTMENT CLAUSE	4.3234 CENTS/KWH
9/1/2018	INTERIM RATE INCREASE 2017 TEST YEAR	0.0000 PERCENT ON BASE
	FINAL RATE INCREASE (TY2017) -0.039% EFFECTIVE 09/01/18, DOCKET NO. 2016-0328	
10/1/2018 - 10/31/2018	PURCHASED POWER ADJUSTMENT CLAUSE	4.3252 CENTS/KWH
11/1/2018 - 11/1/2018	PURCHASED POWER ADJUSTMENT CLAUSE	3.0539 CENTS/KWH
11/1/2018 - 1/31/2019	RESIDENTIAL DSM ADJUSTMENT	0.0203 CENTS/KWH
12/1/2018 - 12/31/2018	PURCHASED POWER ADJUSTMENT CLAUSE	3.0553 CENTS/KWH
1/1/2019 - 1/31/2019	PURCHASED POWER ADJUSTMENT CLAUSE	3.0574 CENTS/KWH
1/1/2019 - 6/30/2019	GREEN INFRASTRUCTURE FEE	1.3500 DOLLARS/MONTH
2/1/2019 - 4/30/2019	RESIDENTIAL DSM ADJUSTMENT	0.0000 CENTS/KWH
2/1/2019 - 2/28/2019	PURCHASED POWER ADJUSTMENT CLAUSE	2.3209 CENTS/KWH
3/1/2019 - 3/31/2019	PURCHASED POWER ADJUSTMENT CLAUSE	2.3532 CENTS/KWH
4/1/2019 - 4/30/2019	PURCHASED POWER ADJUSTMENT CLAUSE	2.3341 CENTS/KWH
4/1/2019 - 4/30/2019	SOLAR SAVER ADJUSTMENT	-0.0857 CENTS/KWH
5/1/2019 - 5/31/2019	PURCHASED POWER ADJUSTMENT CLAUSE	2.8780 CENTS/KWH
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	0.0282 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	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)	-0.0006 CENTS/KWH
5/1/2020-7/31/2020	RESIDENTIAL DSM ADJUSTMENT	0.0008 CENTS/KWH
6/1/2020-6/30/2020	PURCHASED POWER ADJUSTMENT CLAUSE	2.6114 CENTS/KWH
6/1/2020	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.5773 CENTS/KWH
7/1/2020-7/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE	2.5237 CENTS/KWH
7/1/2020	GREEN INFRASTRUCTURE FEE	1.19 DOLLARS/MONTH
7/1/2020	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	RESIDENTIAL DEMAND RESPONSE ADJUSTMENT CLAUSE (DRAC)	-0.0006 CENTS/KWH
8/1/2020	RESIDENTIAL DSM ADJUSTMENT	0.0008 CENTS/KWH
8/1/2020	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	PURCHASED POWER ADJUSTMENT CLAUSE	2.5237 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			
	9/1/2020	10/1/2020	9/1/2020	10/1/2020	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	2.5362	2.5237	12.68	12.62	-0.06
RBA Rate Adjustment	¢/kWh	0.5773	0.5773	2.89	2.89	0.00
DSM Adjustment	¢/kWh	0.0008	0.0008	0.00	0.00	0.00
Demand Response Adjustment Clause	¢/kWh	-0.0006	-0.0006	0.00	0.00	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	0.5882	0.5882	2.94	2.94	0.00
Renewable Energy Infrastructure Cost						
Recovery Provision	¢/kWh	0.0282	0.0282	0.14	0.14	0.00
SolarSaver Adjustment	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
Energy Cost Recovery	¢/kWh	10.220	10.589	51.10	52.95	1.85
Green Infrastructure Fee	\$	1.19	1.19	1.19	1.19	0.00
Avg Residential Bill at 500 kWh				137.57	139.36	

Increase / (Decrease -)	1.79
% Change	1.30%

	Rate		Charge (\$) at 600 kWh			
	9/1/2020	10/1/2020	9/1/2020	10/1/2020	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	2.5362	2.5237	15.22	15.14	-0.08
RBA Rate Adjustment	¢/kWh	0.5773	0.5773	3.46	3.46	0.00
DSM Adjustment	¢/kWh	0.0008	0.0008	0.00	0.00	0.00
Demand Response Adjustment Clause	¢/kWh	-0.0006	-0.0006	0.00	0.00	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	0.5882	0.5882	3.53	3.53	0.00
Renewable Energy Infrastructure Cost						
Recovery Provision	¢/kWh	0.0282	0.0282	0.17	0.17	0.00
SolarSaver Adjustment	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
Energy Cost Recovery	¢/kWh	10.220	10.589	61.32	63.53	2.21
Green Infrastructure Fee	\$	1.19	1.19	1.19	1.19	0.00
Avg Residential Bill at 600 kWh				163.36	165.49	

Increase / (Decrease -)	2.13
% Change	1.30%

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