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UTILITY ALLOWANCE UPDATE REPORT

HOUSING CHOICE VOUCHER UTILITY ALLOWANCES

FOR THE

HAWAII PUBLIC HOUSING AUTHORITY

March 17, 2020

INTRODUCTION

The Hawaii Public Housing Authority (HPHA) contracted with National Facility Consultants, Inc. (NFC) to update allowances for tenant-purchased utilities for units under the U. S. Department of HUD's Section 8 Housing Choice Voucher program. NFC has assisted the HPHA with the development and update of utility allowances for the Low-Income Public Housing Program and we utilized a similar approach to develop the Section 8 allowances.

The Section 8 allowances were developed in accordance with the requirements set forth at 24 CFR Part 982.517 Utility Allowance Schedule utilizing the methodology employed by the HPHA under the Public Housing Program regarding the application of rates and associated adjustments. Allowances were established for each type of housing to reflect the actual *reasonable* utility consumption for an energy conservative household.

Allowances for each type of housing are provided on Form HUD-52667 under the next tab. The backup calculations are provided under the tab for each type of housing. Note that only the allowances for the applicable tenant-paid utility and actual equipment are to be provided. The base charge for electrical service is included under the Other Electric category, which should be provided to all participants unless all utilities are paid by the owner.

METHODOLOGY AND ASSUMPTIONS

As indicated above, the allowances were developed in accordance with the regulations set forth at 24 CFR Part 982.517, which require PHAs to establish utility allowances *must be determined based on the typical*

cost of utilities and services paid by energy-conservative households that occupy housing of similar size and type in the same locality. As a result, no allowance is provided for heat or air-conditioning, as these are not customary in the locality.

The allowances for each housing type are based upon the customary construction type and equipment for the locality. Since NFC developed the site-based allowances for the Public Housing program, that information was utilized to determine the expected equipment in Section 8 rental units.

Allowances were developed for the following usages:

- Allowances were developed for lighting based upon the prevalent fixtures utilized in the locality. The wattage of bulbs was multiplied by an estimate of the daily usage and then converted to a monthly usage. Since incandescent bulbs are no longer produced after January 1, 2014; any lamps that were included in the calculation (as a result of a room not having fixed fixtures) or any fixture that would have a standard base were assumed to have a 13-watt Compact Fluorescent Light (CFL) bulb. As technology progresses, this may be changed to a 9-watt LED bulb in the future.
- Miscellaneous small appliance usage was estimated based upon the regulatory standard of an energy-conservative household of modest circumstances. Allowances were provided for clocks, coffee makers, computers, computer monitors, fans, hair dryers, irons, microwave ovens, radios, smoke detectors, telephones, and televisions and were adjusted, as reasonably needed, for the size of the unit and number of occupants. The estimated watts per appliance were multiplied by the hours of daily use and converted to a total monthly usage estimate. It should be noted that the list of items is not intended to be exact; rather, it is intended to reflect an estimate of usage based upon the standard. For example, an individual household may not use a computer, but may use a gaming system instead and the allowance is intended to cover that usage. It is not intended to include the usage of excessive equipment beyond the standard.
- Usage for a refrigerator is provided as a non Energy-Star, frost-free model that utilizes a total of 600 kWh per year.
- An allowance for cooking was established for efficiency to two-bedroom units and then for three bedroom to five bedroom units to adjust for extensive changes in numbers of occupants.

- An allowance for water heating was established for each unit size based upon the maximum number of occupants in a unit in accordance with the Authority's occupancy standards as stated in the Administrative Plan. In addition, a more accurate estimate of the inlet water temperature was utilized; therefore, there was a decrease in the consumption for this category.
- An allowance for solar water heating was established for each unit size based upon the number of occupants. Staff should verify that the solar system is in good repair prior to applying that allowance.
- Allowances were also developed for the cost of various types of medical equipment in accordance with the requirements under Section 504 of the Housing and Redevelopment Act. As the Authority grants reasonable accommodation for the various allowances, they should be provided to the resident accordingly. These medical allowances are presented for each housing type under the applicable tab.
- Water and sewer allowances were developed based on the expected usage of an energy-conservative household. It was assumed that the maximum number of occupants (based on occupancy standards) is in the household to provide a "worst-case" scenario.

Rates were collected for each applicable utility for each type of property. All rate schedules were verified and any adjustments to rates were collected for the year period from January 1, 2019 through December 31, 2019. This is consistent with the approach utilized by the HPHA for the Public Housing program where adjustments that fluctuate every month are averaged over the preceding year. It should be noted that in cases where utility companies were granted an increase in their base rates by regulatory authorities, the monthly energy cost adjustments were reduced by the amount of the increase for the months prior to the effective date of the increase in order to prevent over compensation.

Where rate schedules are graduated with increased rates are in effect for higher usage, the entire first two tiers were averaged to formulate a weighted average rate for the resident. Since all of the total consumption allowances are above the total for the consumption of the first tier yet below the consumption of the first two tiers combined, this is also to the benefit of the participant.

For water and sewer rates, the "single-family" rate set to take effect July 1, 2020 was utilized for all types of housing based on information provided by the Board of Water Supply. The Board representative

indicated that the multifamily rate is only used when the bill includes multiple units and that the single-family rate is used for an individual bill, regardless of the actual type of housing. Since a participant would not be provided the allowance if it were paid by the building owner, the multifamily rate was not utilized.

ALLOWANCES FOR THE PURCHASE OF REFRIGERATORS AND STOVES

In accordance with HUD regulations, the cost of purchasing a refrigerator or stove is also included in the allowance. For refrigerators, a purchase price of \$700 was assumed and that amount was amortized over a five-year period at an interest rate of 26%. For stoves, a purchase price of \$450 was assumed and that amount was also amortized over a five-year period at an interest rate of 26%. The prices are based upon the Home Depot price for a base GE appliance. The interest rates are based upon that charged on a Home Depot credit account.

FORMS HUD-52667

The following allowances are used to determine the total cost of tenant-furnished utilities and appliances.

Locality/PHA		Unit Type					Date (mm/dd/yyyy)	
Oahu, HI/Hawaii Public Housing Authority		Single Family					07/01/2020	
Utility or Service	Fuel Type	0 BR	1 BR	2 BR	3 BR	4 BR	5 BR	
Heating	Natural Gas							
	Bottled Gas							
	Electric							
	Electric – Heat Pump							
	Fuel Oil							
	Other							
Cooking	Natural Gas	31	31	31	36	36	36	
	Bottled Gas							
	Electric	23	23	23	28	28	28	
	Other							
Other Electric		53	53	60	67	73	74	
Air Conditioning								
Water Heating	Natural Gas	25	36	57	79	100	122	
	Bottled Gas							
	Electric	13	25	51	76	101	126	
	Fuel Oil Solar	5	9	14	23	32	41	
Water		19	23	37	47	63	73	
Sewer		87	91	101	110	119	128	
Trash Collection								
Other – specify								
Range/Microwave		14	14	14	14	14	14	
Refrigerator		21	21	21	21	21	21	
Actual Family Allowances – May be used by the family to compute allowance while searching for a unit.					Utility/Service/Appliance		Allowance	
Head of Household Name					Heating			
					Cooking			
Unit Address					Other Electric			
					Air Conditioning			
					Water Heating			
Number of Bedrooms					Water			
					Sewer			
					Trash Collection			
					Other			
					Range/Microwave			
					Refrigerator			
					Total			

The following allowances are used to determine the total cost of tenant-furnished utilities and appliances.

Locality/PHA Oahu, HI/Hawaii Public Housing Authority		Unit Type Duplex					Date (mm/dd/yyyy) 07/01/2020	
Utility or Service	Fuel Type	0 BR	1 BR	2 BR	3 BR	4 BR	5 BR	
Heating	Natural Gas							
	Bottled Gas							
	Electric							
	Electric – Heat Pump							
	Fuel Oil							
	Other							
Cooking	Natural Gas	31	31	31	36	36	36	
	Bottled Gas							
	Electric	23	23	23	28	28	28	
	Other							
Other Electric		53	53	60	67	73	74	
Air Conditioning								
Water Heating	Natural Gas	25	36	57	79	100	122	
	Bottled Gas							
	Electric	13	25	51	76	101	126	
	Fuel Oil Solar	5	9	14	23	32	41	
Water		19	23	37	47	63	73	
Sewer		87	91	101	110	119	128	
Trash Collection								
Other – specify								
Range/Microwave		14	14	14	14	14	14	
Refrigerator		21	21	21	21	21	21	
Actual Family Allowances – May be used by the family to compute allowance while searching for a unit.					Utility/Service/Appliance		Allowance	
Head of Household Name					Heating			
					Cooking			
Unit Address					Other Electric			
					Air Conditioning			
					Water Heating			
Number of Bedrooms					Water			
					Sewer			
					Trash Collection			
					Other			
					Range/Microwave			
					Refrigerator			
					Total			

The following allowances are used to determine the total cost of tenant-furnished utilities and appliances.

Locality/PHA		Unit Type					Date (mm/dd/yyyy)
Oahu, HI/Hawaii Public Housing Authority		Townhouse					07/01/2020
Utility or Service	Fuel Type	0 BR	1 BR	2 BR	3 BR	4 BR	5 BR
Heating	Natural Gas						
	Bottled Gas						
	Electric						
	Electric – Heat Pump						
	Fuel Oil						
	Other						
Cooking	Natural Gas	31	31	31	36	36	36
	Bottled Gas						
	Electric	23	23	23	28	28	28
	Other						
Other Electric		53	54	60	67	74	75
Air Conditioning							
Water Heating	Natural Gas	25	36	57	79	100	122
	Bottled Gas						
	Electric	13	25	51	76	101	126
	Electric Solar	5	9	14	23	32	41
Water		19	23	37	47	63	73
Sewer		87	91	101	110	119	128
Trash Collection							
Other – specify							
Range/Microwave		14	14	14	14	14	14
Refrigerator		21	21	21	21	21	21
Actual Family Allowances – May be used by the family to compute allowance while searching for a unit.					Utility/Service/Appliance		Allowance
Head of Household Name					Heating		
					Cooking		
Unit Address					Other Electric		
					Air Conditioning		
					Water Heating		
Number of Bedrooms					Water		
					Sewer		
					Trash Collection		
					Other		
					Range/Microwave		
					Refrigerator		
					Total		

The following allowances are used to determine the total cost of tenant-furnished utilities and appliances.

Locality/PHA		Unit Type					Date (mm/dd/yyyy)	
Oahu, HI/Hawaii Public Housing Authority		Lowrise					07/01/2020	
Utility or Service	Fuel Type	0 BR	1 BR	2 BR	3 BR	4 BR	5 BR	
Heating	Natural Gas							
	Bottled Gas							
	Electric							
	Electric – Heat Pump							
	Fuel Oil							
	Other							
Cooking	Natural Gas	31	31	31	36	36	36	
	Bottled Gas							
	Electric	23	23	23	28	28	28	
	Other							
Other Electric		52	53	60	66	73	74	
Air Conditioning								
Water Heating	Natural Gas	25	36	57	79	100	122	
	Bottled Gas							
	Electric	13	25	51	76	101	126	
	Electric Solar	5	9	14	23	32	41	
Water		19	23	37	47	63	73	
Sewer		87	91	101	110	119	128	
Trash Collection								
Other – specify								
Range/Microwave		14	14	14	14	14	14	
Refrigerator		21	21	21	21	21	21	
Actual Family Allowances – May be used by the family to compute allowance while searching for a unit.					Utility/Service/Appliance	Allowance		
					Heating			
Head of Household Name					Cooking			
					Other Electric			
					Air Conditioning			
Unit Address					Water Heating			
					Water			
					Sewer			
					Trash Collection			
Number of Bedrooms					Other			
					Range/Microwave			
					Refrigerator			
					Total			

The following allowances are used to determine the total cost of tenant-furnished utilities and appliances.

Locality/PHA		Unit Type					Date (mm/dd/yyyy)	
Oahu, HI/Hawaii Public Housing Authority		Highrise					07/01/2020	
Utility or Service	Fuel Type	0 BR	1 BR	2 BR	3 BR	4 BR	5 BR	
Heating	Natural Gas							
	Bottled Gas							
	Electric							
	Electric – Heat Pump							
	Fuel Oil							
	Other							
Cooking	Natural Gas	31	31	31	36	36	36	
	Bottled Gas							
	Electric	23	23	23	28	28	28	
	Other							
Other Electric		52	53	59	66	72	73	
Air Conditioning								
Water Heating	Natural Gas	25	36	57	79	100	122	
	Bottled Gas							
	Electric	13	25	51	76	101	126	
	Fuel Oil Solar	5	9	14	23	32	41	
Water		19	23	37	47	63	73	
Sewer		87	91	101	110	119	128	
Trash Collection								
Other – specify								
Range/Microwave		14	14	14	14	14	14	
Refrigerator		21	21	21	21	21	21	
Actual Family Allowances – May be used by the family to compute allowance while searching for a unit.					Utility/Service/Appliance	Allowance		
Head of Household Name					Heating			
					Cooking			
Unit Address					Other Electric			
					Air Conditioning			
Number of Bedrooms					Water Heating			
					Water			
					Sewer			
					Trash Collection			
					Other			
					Range/Microwave			
					Refrigerator			
					Total			

ELECTRIC/WATER ALLOWANCE DETAIL

2020 Rate Calculation Form

Hawaii Public Housing Authority

Property Description: Single Family
 Utility Type: Electric
 Utility Provider: HECO

Average Residential DSM Adjustments (per kWh)

Month	Amount	Month	Amount
January-19	\$0.000203	July-19	\$0.000133
February-19	\$0.000000	August-19	\$0.000000
March-19	\$0.000000	September-19	\$0.000000
April-19	\$0.000000	October-19	\$0.000000
May-19	\$0.000133	November-19	\$0.000000
June-19	\$0.000133	December-19	\$0.000000
Average Adjustment			\$0.000050

Average Energy Cost Adjustment Factors (per kWh)

Month	Amount	Month	Amount
January-19	\$0.140950	July-19	\$0.145450
February-19	\$0.120440	August-19	\$0.142970
March-19	\$0.134490	September-19	\$0.132400
April-19	\$0.143380	October-19	\$0.129510
May-19	\$0.147210	November-19	\$0.127780
June-19	\$0.151990	December-19	\$0.124090
Average Adjustment			\$0.13672

IRP Cost Recovery Provision

Month	Amount	Month	Amount
January-19	0.000%	July-19	0.000%
February-19	0.000%	August-19	0.000%
March-19	0.000%	September-19	0.000%
April-19	0.000%	October-19	0.000%
May-19	0.000%	November-19	0.000%
June-19	0.000%	December-19	0.000%
Average Adjustment			0.000%

2020 Rate Calculation Form

Hawaii Public Housing Authority

Property Description: Single Family
Utility Type: Electric
Utility Provider: HECO

Rate Adjustment

Month	Amount	Month	Amount
January-19	0.000%	July-19	0.000%
February-19	0.000%	August-19	0.000%
March-19	0.000%	September-19	0.000%
April-19	0.000%	October-19	0.000%
May-19	0.000%	November-19	0.000%
June-19	0.000%	December-19	0.000%
Average Adjustment			0.000%

Summary of Rate Schedule -- Schedule "R"

Monthly Customer Base Charge*:	\$12.67
Non-Fuel Energy Charge**:	\$0.114983
Base Fuel/Energy Charge:	\$0.000000
IRP Cost Recovery Provision (Applies to Above 3 Charges):	0.000%
Rate Adjustment (Applies to Above 3 Charges):	0.000%
Average Residential DSM Adjustments:	\$0.000050
Average Energy Cost Adjustment Factors:	\$0.13672
PB Surcharge/Avg Purch Power Adj/RBA Rate Adj/RE Surcharge/DR Adj:	\$0.039436

* Includes Green Infrastructure Fee Surcharge

** Rate is a weighted average of the first and second tiers of the graduated schedule

2020 Utility Allowances

Hawaii Public Housing Authority

Property Description: Single Family
Utility Type: Electric
Utility Provider: HECO

Consumption Allowances (kWh per Month)

Bedroom Size	Lights	Misc.	Refrig.	Total Basic	Electric Cooking	Electric Water Heating	Solar Water Heating*	Total
0	32	56	50	138	78	43	16	274
1	34	56	50	139	78	87	31	335
2	36	76	50	162	78	174	47	460
3	43	92	50	185	95	261	78	619
4	45	113	50	208	95	348	110	760
5	47	114	50	211	95	434	141	882

* Distribution by bedroom size based on number of occupants

Cost Allowances (\$ per Month)

Bedroom Size	Lights	Misc.	Refrig.	Total Basic**	Electric Cooking	Electric Water Heating	Solar Water Heating	Total
0	\$9.37	\$16.17	\$14.56	\$53	\$23	\$13	\$5	\$93
1	\$9.83	\$16.17	\$14.56	\$53	\$23	\$25	\$9	\$110
2	\$10.52	\$22.12	\$14.56	\$60	\$23	\$51	\$14	\$147
3	\$12.48	\$26.82	\$14.56	\$67	\$28	\$76	\$23	\$193
4	\$13.17	\$32.77	\$14.56	\$73	\$28	\$101	\$32	\$234
5	\$13.75	\$33.18	\$14.56	\$74	\$28	\$126	\$41	\$269

**Total Basic Includes Monthly Customer Base Charge. This is the amount for Other Electric.

Lighting Usage Tables

Hawaii Public Housing Authority

Property Description: Single Family
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: 0

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	2	13	3	78	28
Living Room	1	39	5	195	71
Dining Room	0	0	2	0	0
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	2	104	38
Bedroom	1	26	3	78	28
Lamps	0	0	4	0	0
Hall/Stairs	1	13	3	39	14
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Number of Bedrooms: 1

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	2	13	3	78	28
Living Room	1	39	5	195	71
Dining Room	0	0	2	0	0
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	3	156	57
Bedroom	1	26	3	78	28
Lamps	0	0	4	0	0
Hall/Stairs	1	13	3	39	14
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Lighting Usage Tables

Hawaii Public Housing Authority

Property Description: Single Family
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: **2**

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	2	13	3	78	28
Living Room	1	39	5	195	71
Dining Room	0	0	2	0	0
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	3	156	57
Bedroom	2	26	3	156	57
Lamps	0	0	4	0	0
Hall/Stairs	1	13	3	39	14
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Number of Bedrooms: **3**

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	2	13	3	78	28
Living Room	1	39	5	195	71
Dining Room	1	26	2	52	19
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	4	208	76
Bedroom	3	26	3	234	85
Lamps	0	0	4	0	0
Hall/Stairs	2	13	3	78	28
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Lighting Usage Tables

Hawaii Public Housing Authority

Property Description: Single Family
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: 4

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	2	13	3	78	28
Living Room	1	39	5	195	71
Dining Room	1	26	2	52	19
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	4	208	76
Bedroom	4	26	3	312	114
Lamps	0	0	4	0	0
Hall/Stairs	2	13	3	78	28
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Number of Bedrooms: 5

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	2	13	3	78	28
Living Room	1	39	5	195	71
Dining Room	1	26	2	52	19
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	3	156	57
Bedroom	5	26	3	390	142
Lamps	0	0	4	0	0
Hall/Stairs	3	13	3	117	43
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Miscellaneous Small Appliance Usage Tables

Hawaii Public Housing Authority

Property Description: Single Family
 Utility Type: Electric
 Utility Provider: HECO

Number of Bedrooms: 0

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	1	2	24.0	1.4	17
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	1	60	4.0	7.2	86
Hair Dryer	1	1200	0.1	3.0	36
Iron	1	1100	0.1	4.7	57
Microwave Oven	1	800	0.2	4.1	49
Radio	1	15	6.0	2.7	32
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	1	100	4.0	12.0	144

Number of Bedrooms: 1

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	1	2	24.0	1.4	17
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	1	60	4.0	7.2	86
Hair Dryer	1	1200	0.1	3.0	36
Iron	1	1100	0.1	4.7	57
Microwave Oven	1	800	0.2	4.1	49
Radio	1	15	6.0	2.7	32
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	1	100	4.0	12.0	144

Miscellaneous Small Appliance Usage Tables

Hawaii Public Housing Authority

Property Description: Single Family
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: 2

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	2	2	24.0	2.9	35
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	2	60	4.0	14.4	173
Hair Dryer	2	1200	0.1	6.0	72
Iron	1	1100	0.3	9.4	113
Microwave Oven	1	800	0.3	8.2	98
Radio	1	15	6.0	2.7	32
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	1	100	4.0	12.0	144

Number of Bedrooms: 3

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	3	2	24.0	4.3	52
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	2	60	4.0	14.4	173
Hair Dryer	2	1200	0.1	6.0	72
Iron	1	1100	0.3	9.4	113
Microwave Oven	1	800	0.3	8.2	98
Radio	2	15	6.0	5.4	65
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	2	100	4.0	24.0	288

Miscellaneous Small Appliance Usage Tables

Hawaii Public Housing Authority

Property Description: Single Family
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: 4

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	4	2	24.0	5.8	69
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	3	60	4.0	21.6	259
Hair Dryer	3	1200	0.1	9.0	108
Iron	1	1100	0.4	14.2	170
Microwave Oven	1	800	0.5	12.2	147
Radio	2	15	6.0	5.4	65
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	2	100	4.0	24.0	288

Number of Bedrooms: 5

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	5	2	24.0	7.2	86
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	3	60	4.0	21.6	259
Hair Dryer	3	1200	0.1	9.0	108
Iron	1	1100	0.4	14.2	170
Microwave Oven	1	800	0.5	12.2	147
Radio	2	15	6.0	5.4	65
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	2	100	4.0	24.0	288

2020 Allowances for Medical Equipment

Hawaii Public Housing Authority

Property Description: Single Family
Utility Type: Electric
Utility Provider: HECO

Description	Frequency	kWh/Year	kWh/Month	Monthly Dollar Allowance
Air Conditioner, window type, 10,000 BtuH unit	Continuously As Needed	2,750	229	\$66.73
Oxygen Concentrator, 400W	18 Hrs/Day	2,628	219	\$63.77
Nebulizer, 75W	2 Hrs/Day	60	5	\$1.46
Electric Hospital Bed, 200W	.2 Hrs/Day	12	1	\$0.29
Alternating Pressure Pad, 70W	24 Hrs/Day	612	51	\$14.85
Low Air-Loss Mattress, 120W	24 Hrs/Day	1,056	88	\$25.62
Power Wheelchair/ Scooter, 550W, Full-Time Use	4 Hrs/Day Charge Time	803	67	\$19.49
Feeding Tube, 120W	12 Hrs/Day	526	44	\$12.75
CPAP Machine, 30W	10 Hrs/Day	110	9	\$2.66
Leg Pump, 14W	6 Hrs/Day	31	3	\$0.74

Water and Sewer Allowance Calculation

Hawaii Public Housing Authority

Property Description: Single Family
Utility Type: Water/Sewer
Utility Provider: City/County of Honolulu

Standards Used in Calculating Water Usage				
Fixture/Use	Gallons	Times	Frequency	Description
Toilet	3.5	X	5	Flushes per Person per Day
Shower	15	X	1	Showers per Person per Day
Dishwasher	3	X	0.5	Dishloads per Person per Day
Laundry	8	X	0.2	Loads per Person per Day
Cooking	0.1	X	3	Meals per Person per Day
Handwashing	0.1	X	10	Handwashings per Person per Day
Other	5	X	1	Allowance per Person per Day

Calculation of Monthly Water Usage						
Bedroom Size >>>	0	1	2	3	4	5
# Occupants >>>	1	2	4	6	8	10
Toilet	17.5	35	70	105	140	175
Shower	15	30	60	90	120	150
Diswasher	1.5	3	6	9	12	15
Clothes	1.6	3.2	6.4	9.6	12.8	16
Cooking	0.3	0.6	1.2	1.8	2.4	3
Handwashing	1	2	4	6	8	10
Other	5	10	20	30	40	50
Gallons per Day	41.9	83.8	167.6	251.4	335.2	419
Gallons per Month	1274	2549	5098	7647	10196	12745
Water Billing Gallons	2000	3000	6000	8000	11000	13000
Sewer Billing Gallons*	2000	3000	5000	7000	9000	11000

Water Rate Schedule						
Base Charge	\$10.80	\$10.80	\$10.80	\$10.80	\$10.80	\$10.80
Charge per 1000 Gals	\$3.91	\$4.14	\$4.37	\$4.58	\$4.75	\$4.82

Sewer Rate Schedule	
Base Charge	\$77.55
Charge per 1000 Gals	\$4.63

Monthly Cost Allowances						
Bedroom Size >>>	0	1	2	3	4	5
Water Allowance	\$19	\$23	\$37	\$47	\$63	\$73
Sewer Allowance	\$87	\$91	\$101	\$110	\$119	\$128

*Actual consumption reduced by 20% for water irrigation factor

2020 Rate Calculation Form

Hawaii Public Housing Authority

Property Description: Duplex
Utility Type: Electric
Utility Provider: HECO

Average Residential DSM Adjustments (per kWh)

Month	Amount	Month	Amount
January-19	\$0.000203	July-19	\$0.000133
February-19	\$0.000000	August-19	\$0.000000
March-19	\$0.000000	September-19	\$0.000000
April-19	\$0.000000	October-19	\$0.000000
May-19	\$0.000133	November-19	\$0.000000
June-19	\$0.000133	December-19	\$0.000000
Average Adjustment			\$0.000050

Average Energy Cost Adjustment Factors (per kWh)

Month	Amount	Month	Amount
January-19	\$0.140950	July-19	\$0.145450
February-19	\$0.120440	August-19	\$0.142970
March-19	\$0.134490	September-19	\$0.132400
April-19	\$0.143380	October-19	\$0.129510
May-19	\$0.147210	November-19	\$0.127780
June-19	\$0.151990	December-19	\$0.124090
Average Adjustment			\$0.13672

IRP Cost Recovery Provision

Month	Amount	Month	Amount
January-19	0.000%	July-19	0.000%
February-19	0.000%	August-19	0.000%
March-19	0.000%	September-19	0.000%
April-19	0.000%	October-19	0.000%
May-19	0.000%	November-19	0.000%
June-19	0.000%	December-19	0.000%
Average Adjustment			0.000%

2020 Rate Calculation Form

Hawaii Public Housing Authority

Property Description: Duplex
Utility Type: Electric
Utility Provider: HECO

Rate Adjustment

Month	Amount	Month	Amount
January-19	0.000%	July-19	0.000%
February-19	0.000%	August-19	0.000%
March-19	0.000%	September-19	0.000%
April-19	0.000%	October-19	0.000%
May-19	0.000%	November-19	0.000%
June-19	0.000%	December-19	0.000%
Average Adjustment			0.000%

Summary of Rate Schedule -- Schedule "R"

Monthly Customer Base Charge*:	\$12.67
Non-Fuel Energy Charge**:	\$0.114983
Base Fuel/Energy Charge:	\$0.000000
IRP Cost Recovery Provision (Applies to Above 3 Charges):	0.000%
Rate Adjustment (Applies to Above 3 Charges):	0.000%
Average Residential DSM Adjustments:	\$0.000050
Average Energy Cost Adjustment Factors:	\$0.13672
PB Surcharge/Avg Purch Power Adj/RBA Rate Adj/RE Surcharge/DR Adj:	\$0.039436

* Includes Green Infrastructure Fee Surcharge

** Rate is a weighted average of the first and second tiers of the graduated schedule

2020 Utility Allowances

Hawaii Public Housing Authority

Property Description: Duplex
 Utility Type: Electric
 Utility Provider: HECO

Consumption Allowances (kWh per Month)

Bedroom Size	Lights	Misc.	Refrig.	Total Basic	Electric Cooking	Electric Water Heating	Solar Water Heating*	Total
0	32	56	50	138	78	43	16	274
1	34	56	50	139	78	87	31	335
2	36	76	50	162	78	174	47	460
3	43	92	50	185	95	261	78	619
4	45	113	50	208	95	348	110	760
5	47	114	50	211	95	434	141	882

* Distribution by bedroom size based on number of occupants

Cost Allowances (\$ per Month)

Bedroom Size	Lights	Misc.	Refrig.	Total Basic**	Electric Cooking	Electric Water Heating	Solar Water Heating	Total
0	\$9.37	\$16.17	\$14.56	\$53	\$23	\$13	\$5	\$93
1	\$9.83	\$16.17	\$14.56	\$53	\$23	\$25	\$9	\$110
2	\$10.52	\$22.12	\$14.56	\$60	\$23	\$51	\$14	\$147
3	\$12.48	\$26.82	\$14.56	\$67	\$28	\$76	\$23	\$193
4	\$13.17	\$32.77	\$14.56	\$73	\$28	\$101	\$32	\$234
5	\$13.75	\$33.18	\$14.56	\$74	\$28	\$126	\$41	\$269

**Total Basic Includes Monthly Customer Base Charge. This is the amount for Other Electric.

Lighting Usage Tables

Hawaii Public Housing Authority

Property Description: Duplex
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: 0

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	2	13	3	78	28
Living Room	1	39	5	195	71
Dining Room	0	0	2	0	0
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	2	104	38
Bedroom	1	26	3	78	28
Lamps	0	0	4	0	0
Hall/Stairs	1	13	3	39	14
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Number of Bedrooms: 1

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	2	13	3	78	28
Living Room	1	39	5	195	71
Dining Room	0	0	2	0	0
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	3	156	57
Bedroom	1	26	3	78	28
Lamps	0	0	4	0	0
Hall/Stairs	1	13	3	39	14
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Lighting Usage Tables

Hawaii Public Housing Authority

Property Description: Duplex
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: 2

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	2	13	3	78	28
Living Room	1	39	5	195	71
Dining Room	0	0	2	0	0
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	3	156	57
Bedroom	2	26	3	156	57
Lamps	0	0	4	0	0
Hall/Stairs	1	13	3	39	14
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Number of Bedrooms: 3

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	2	13	3	78	28
Living Room	1	39	5	195	71
Dining Room	1	26	2	52	19
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	4	208	76
Bedroom	3	26	3	234	85
Lamps	0	0	4	0	0
Hall/Stairs	2	13	3	78	28
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Lighting Usage Tables

Hawaii Public Housing Authority

Property Description: Duplex
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: 4

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	2	13	3	78	28
Living Room	1	39	5	195	71
Dining Room	1	26	2	52	19
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	4	208	76
Bedroom	4	26	3	312	114
Lamps	0	0	4	0	0
Hall/Stairs	2	13	3	78	28
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Number of Bedrooms: 5

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	2	13	3	78	28
Living Room	1	39	5	195	71
Dining Room	1	26	2	52	19
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	3	156	57
Bedroom	5	26	3	390	142
Lamps	0	0	4	0	0
Hall/Stairs	3	13	3	117	43
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Miscellaneous Small Appliance Usage Tables

Hawaii Public Housing Authority

Property Description: Duplex
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: 0

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	1	2	24.0	1.4	17
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	1	60	4.0	7.2	86
Hair Dryer	1	1200	0.1	3.0	36
Iron	1	1100	0.1	4.7	57
Microwave Oven	1	800	0.2	4.1	49
Radio	1	15	6.0	2.7	32
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	1	100	4.0	12.0	144

Number of Bedrooms: 1

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	1	2	24.0	1.4	17
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	1	60	4.0	7.2	86
Hair Dryer	1	1200	0.1	3.0	36
Iron	1	1100	0.1	4.7	57
Microwave Oven	1	800	0.2	4.1	49
Radio	1	15	6.0	2.7	32
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	1	100	4.0	12.0	144

Miscellaneous Small Appliance Usage Tables

Hawaii Public Housing Authority

Property Description: Duplex
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: **2**

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	2	2	24.0	2.9	35
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	2	60	4.0	14.4	173
Hair Dryer	2	1200	0.1	6.0	72
Iron	1	1100	0.3	9.4	113
Microwave Oven	1	800	0.3	8.2	98
Radio	1	15	6.0	2.7	32
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	1	100	4.0	12.0	144

Number of Bedrooms: **3**

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	3	2	24.0	4.3	52
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	2	60	4.0	14.4	173
Hair Dryer	2	1200	0.1	6.0	72
Iron	1	1100	0.3	9.4	113
Microwave Oven	1	800	0.3	8.2	98
Radio	2	15	6.0	5.4	65
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	2	100	4.0	24.0	288

Miscellaneous Small Appliance Usage Tables

Hawaii Public Housing Authority

Property Description: Duplex
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: 4

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	4	2	24.0	5.8	69
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	3	60	4.0	21.6	259
Hair Dryer	3	1200	0.1	9.0	108
Iron	1	1100	0.4	14.2	170
Microwave Oven	1	800	0.5	12.2	147
Radio	2	15	6.0	5.4	65
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	2	100	4.0	24.0	288

Number of Bedrooms: 5

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	5	2	24.0	7.2	86
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	3	60	4.0	21.6	259
Hair Dryer	3	1200	0.1	9.0	108
Iron	1	1100	0.4	14.2	170
Microwave Oven	1	800	0.5	12.2	147
Radio	2	15	6.0	5.4	65
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	2	100	4.0	24.0	288

2020 Allowances for Medical Equipment

Hawaii Public Housing Authority

Property Description: Duplex
 Utility Type: Electric
 Utility Provider: HECO

Description	Frequency	kWh/Year	kWh/Month	Monthly Dollar Allowance
Air Conditioner, window type, 10,000 BtuH unit	Continuously As Needed	2,750	229	\$66.73
Oxygen Concentrator, 400W	18 Hrs/Day	2,628	219	\$63.77
Nebulizer, 75W	2 Hrs/Day	60	5	\$1.46
Electric Hospital Bed, 200W	.2 Hrs/Day	12	1	\$0.29
Alternating Pressure Pad, 70W	24 Hrs/Day	612	51	\$14.85
Low Air-Loss Mattress, 120W	24 Hrs/Day	1,056	88	\$25.62
Power Wheelchair/ Scooter, 550W, Full-Time Use	4 Hrs/Day Charge Time	803	67	\$19.49
Feeding Tube, 120W	12 Hrs/Day	526	44	\$12.75
CPAP Machine, 30W	10 Hrs/Day	110	9	\$2.66
Leg Pump, 14W	6 Hrs/Day	31	3	\$0.74

Water and Sewer Allowance Calculation

Hawaii Public Housing Authority

Property Description: Duplex
 Utility Type: Water/Sewer
 Utility Provider: City/County of Honolulu

Standards Used in Calculating Water Usage				
Fixture/Use	Gallons	Times	Frequency	Description
Toilet	3.5	X	5	Flushes per Person per Day
Shower	15	X	1	Showers per Person per Day
Dishwasher	3	X	0.5	Dishloads per Person per Day
Laundry	8	X	0.2	Loads per Person per Day
Cooking	0.1	X	3	Meals per Person per Day
Handwashing	0.1	X	10	Handwashings per Person per Day
Other	5	X	1	Allowance per Person per Day

Calculation of Monthly Water Usage						
Bedroom Size >>>	0	1	2	3	4	5
# Occupants >>>	1	2	4	6	8	10
Toilet	17.5	35	70	105	140	175
Shower	15	30	60	90	120	150
Diswasher	1.5	3	6	9	12	15
Clothes	1.6	3.2	6.4	9.6	12.8	16
Cooking	0.3	0.6	1.2	1.8	2.4	3
Handwashing	1	2	4	6	8	10
Other	5	10	20	30	40	50
Gallons per Day	41.9	83.8	167.6	251.4	335.2	419
Gallons per Month	1274	2549	5098	7647	10196	12745
Water Billing Gallons	2000	3000	6000	8000	11000	13000
Sewer Billing Gallons*	2000	3000	5000	7000	9000	11000

Water Rate Schedule						
Base Charge	\$10.80	\$10.80	\$10.80	\$10.80	\$10.80	\$10.80
Charge per 1000 Gals	\$3.91	\$4.14	\$4.37	\$4.58	\$4.75	\$4.82

Sewer Rate Schedule	
Base Charge	\$77.55
Charge per 1000 Gals	\$4.63

Monthly Cost Allowances

Bedroom Size >>>	0	1	2	3	4	5
Water Allowance	\$19	\$23	\$37	\$47	\$63	\$73
Sewer Allowance	\$87	\$91	\$101	\$110	\$119	\$128

*Actual consumption reduced by 20% for water irrigation factor

2020 Rate Calculation Form

Hawaii Public Housing Authority

Property Description: Townhouse
Utility Type: Electric
Utility Provider: HECO

Average Residential DSM Adjustments (per kWh)

Month	Amount	Month	Amount
January-19	\$0.000203	July-19	\$0.000133
February-19	\$0.000000	August-19	\$0.000000
March-19	\$0.000000	September-19	\$0.000000
April-19	\$0.000000	October-19	\$0.000000
May-19	\$0.000133	November-19	\$0.000000
June-19	\$0.000133	December-19	\$0.000000
Average Adjustment			\$0.000050

Average Energy Cost Adjustment Factors (per kWh)

Month	Amount	Month	Amount
January-19	\$0.140950	July-19	\$0.145450
February-19	\$0.120440	August-19	\$0.142970
March-19	\$0.134490	September-19	\$0.132400
April-19	\$0.143380	October-19	\$0.129510
May-19	\$0.147210	November-19	\$0.127780
June-19	\$0.151990	December-19	\$0.124090
Average Adjustment			\$0.13672

IRP Cost Recovery Provision

Month	Amount	Month	Amount
January-19	0.000%	July-19	0.000%
February-19	0.000%	August-19	0.000%
March-19	0.000%	September-19	0.000%
April-19	0.000%	October-19	0.000%
May-19	0.000%	November-19	0.000%
June-19	0.000%	December-19	0.000%
Average Adjustment			0.000%

2020 Rate Calculation Form

Hawaii Public Housing Authority

Property Description: Townhouse
Utility Type: Electric
Utility Provider: HECO

Rate Adjustment

Month	Amount	Month	Amount
January-19	0.000%	July-19	0.000%
February-19	0.000%	August-19	0.000%
March-19	0.000%	September-19	0.000%
April-19	0.000%	October-19	0.000%
May-19	0.000%	November-19	0.000%
June-19	0.000%	December-19	0.000%
Average Adjustment			0.000%

Summary of Rate Schedule -- Schedule "R"

Monthly Customer Base Charge*:	\$12.67
Non-Fuel Energy Charge**:	\$0.114983
Base Fuel/Energy Charge:	\$0.000000
IRP Cost Recovery Provision (Applies to Above 3 Charges):	0.000%
Rate Adjustment (Applies to Above 3 Charges):	0.000%
Average Residential DSM Adjustments:	\$0.000050
Average Energy Cost Adjustment Factors:	\$0.13672
PB Surcharge/Avg Purch Power Adj/RBA Rate Adj/RE Surcharge/DR Adj:	\$0.039436

* Includes Green Infrastructure Fee Surcharge

** Rate is a weighted average of the first and second tiers of the graduated schedule

2020 Utility Allowances

Hawaii Public Housing Authority

Property Description: Townhouse
Utility Type: Electric
Utility Provider: HECO

Consumption Allowances (kWh per Month)

Bedroom Size	Lights	Misc.	Refrig.	Total Basic	Electric Cooking	Electric Water Heating	Solar Water Heating*	Total
0	33	56	50	139	78	43	16	275
1	35	56	50	140	78	87	31	336
2	37	76	50	163	78	174	47	462
3	44	92	50	186	95	261	78	620
4	46	113	50	209	95	348	110	761
5	48	114	50	212	95	434	141	883

* Distribution by bedroom size based on number of occupants

Cost Allowances (\$ per Month)

Bedroom Size	Lights	Misc.	Refrig.	Total Basic**	Electric Cooking	Electric Water Heating	Solar Water Heating	Total
0	\$9.72	\$16.17	\$14.56	\$53	\$23	\$13	\$5	\$93
1	\$10.18	\$16.17	\$14.56	\$54	\$23	\$25	\$9	\$111
2	\$10.87	\$22.12	\$14.56	\$60	\$23	\$51	\$14	\$147
3	\$12.82	\$26.82	\$14.56	\$67	\$28	\$76	\$23	\$193
4	\$13.52	\$32.77	\$14.56	\$74	\$28	\$101	\$32	\$234
5	\$14.09	\$33.18	\$14.56	\$75	\$28	\$126	\$41	\$270

**Total Basic Includes Monthly Customer Base Charge. This is the amount for Other Electric.

Lighting Usage Tables

Hawaii Public Housing Authority

Property Description: Townhouse
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: **0**

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	2	13	3	78	28
Living Room	1	39	5	195	71
Dining Room	0	0	2	0	0
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	2	104	38
Bedroom	1	26	3	78	28
Lamps	0	0	4	0	0
Hall/Stairs	2	13	3	78	28
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Number of Bedrooms: **1**

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	2	13	3	78	28
Living Room	1	39	5	195	71
Dining Room	0	0	2	0	0
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	3	156	57
Bedroom	1	26	3	78	28
Lamps	0	0	4	0	0
Hall/Stairs	2	13	3	78	28
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Lighting Usage Tables

Hawaii Public Housing Authority

Property Description: Townhouse
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: **2**

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	2	13	3	78	28
Living Room	1	39	5	195	71
Dining Room	0	0	2	0	0
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	3	156	57
Bedroom	2	26	3	156	57
Lamps	0	0	4	0	0
Hall/Stairs	2	13	3	78	28
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Number of Bedrooms: **3**

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	2	13	3	78	28
Living Room	1	39	5	195	71
Dining Room	1	26	2	52	19
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	4	208	76
Bedroom	3	26	3	234	85
Lamps	0	0	4	0	0
Hall/Stairs	3	13	3	117	43
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Lighting Usage Tables

Hawaii Public Housing Authority

Property Description: Townhouse
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: **4**

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	2	13	3	78	28
Living Room	1	39	5	195	71
Dining Room	1	26	2	52	19
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	4	208	76
Bedroom	4	26	3	312	114
Lamps	0	0	4	0	0
Hall/Stairs	3	13	3	117	43
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Number of Bedrooms: **5**

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	2	13	3	78	28
Living Room	1	39	5	195	71
Dining Room	1	26	2	52	19
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	3	156	57
Bedroom	5	26	3	390	142
Lamps	0	0	4	0	0
Hall/Stairs	4	13	3	156	57
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Miscellaneous Small Appliance Usage Tables

Hawaii Public Housing Authority

Property Description: Townhouse
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: **0**

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	1	2	24.0	1.4	17
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	1	60	4.0	7.2	86
Hair Dryer	1	1200	0.1	3.0	36
Iron	1	1100	0.1	4.7	57
Microwave Oven	1	800	0.2	4.1	49
Radio	1	15	6.0	2.7	32
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	1	100	4.0	12.0	144

Number of Bedrooms: **1**

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	1	2	24.0	1.4	17
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	1	60	4.0	7.2	86
Hair Dryer	1	1200	0.1	3.0	36
Iron	1	1100	0.1	4.7	57
Microwave Oven	1	800	0.2	4.1	49
Radio	1	15	6.0	2.7	32
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	1	100	4.0	12.0	144

Miscellaneous Small Appliance Usage Tables

Hawaii Public Housing Authority

Property Description: Townhouse
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: 2

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	2	2	24.0	2.9	35
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	2	60	4.0	14.4	173
Hair Dryer	2	1200	0.1	6.0	72
Iron	1	1100	0.3	9.4	113
Microwave Oven	1	800	0.3	8.2	98
Radio	1	15	6.0	2.7	32
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	1	100	4.0	12.0	144

Number of Bedrooms: 3

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	3	2	24.0	4.3	52
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	2	60	4.0	14.4	173
Hair Dryer	2	1200	0.1	6.0	72
Iron	1	1100	0.3	9.4	113
Microwave Oven	1	800	0.3	8.2	98
Radio	2	15	6.0	5.4	65
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	2	100	4.0	24.0	288

Miscellaneous Small Appliance Usage Tables

Hawaii Public Housing Authority

Property Description: Townhouse
 Utility Type: Electric
 Utility Provider: HECO

Number of Bedrooms: 4

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	4	2	24.0	5.8	69
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	3	60	4.0	21.6	259
Hair Dryer	3	1200	0.1	9.0	108
Iron	1	1100	0.4	14.2	170
Microwave Oven	1	800	0.5	12.2	147
Radio	2	15	6.0	5.4	65
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	2	100	4.0	24.0	288

Number of Bedrooms: 5

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	5	2	24.0	7.2	86
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	3	60	4.0	21.6	259
Hair Dryer	3	1200	0.1	9.0	108
Iron	1	1100	0.4	14.2	170
Microwave Oven	1	800	0.5	12.2	147
Radio	2	15	6.0	5.4	65
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	2	100	4.0	24.0	288

2020 Allowances for Medical Equipment

Hawaii Public Housing Authority

Property Description:
Utility Type:
Utility Provider:

Townhouse
 Electric
 HECO

Description	Frequency	kWh/Year	kWh/Month	Monthly Dollar Allowance
Air Conditioner, window type, 10,000 BtuH unit	Continuously As Needed	2,750	229	\$66.73
Oxygen Concentrator, 400W	18 Hrs/Day	2,628	219	\$63.77
Nebulizer, 75W	2 Hrs/Day	60	5	\$1.46
Electric Hospital Bed, 200W	.2 Hrs/Day	12	1	\$0.29
Alternating Pressure Pad, 70W	24 Hrs/Day	612	51	\$14.85
Low Air-Loss Mattress, 120W	24 Hrs/Day	1,056	88	\$25.62
Power Wheelchair/ Scooter, 550W, Full-Time Use	4 Hrs/Day Charge Time	803	67	\$19.49
Feeding Tube, 120W	12 Hrs/Day	526	44	\$12.75
CPAP Machine, 30W	10 Hrs/Day	110	9	\$2.66
Leg Pump, 14W	6 Hrs/Day	31	3	\$0.74

Water and Sewer Allowance Calculation

Hawaii Public Housing Authority

Property Description: Townhouse
Utility Type: Water/Sewer
Utility Provider: City/County of Honolulu

Standards Used in Calculating Water Usage				
Fixture/Use	Gallons	Times	Frequency	Description
Toilet	3.5	X	5	Flushes per Person per Day
Shower	15	X	1	Showers per Person per Day
Dishwasher	3	X	0.5	Dishloads per Person per Day
Laundry	8	X	0.2	Loads per Person per Day
Cooking	0.1	X	3	Meals per Person per Day
Handwashing	0.1	X	10	Handwashings per Person per Day
Other	5	X	1	Allowance per Person per Day

Calculation of Monthly Water Usage						
Bedroom Size >>>	0	1	2	3	4	5
# Occupants >>>	1	2	4	6	8	10
Toilet	17.5	35	70	105	140	175
Shower	15	30	60	90	120	150
Diswasher	1.5	3	6	9	12	15
Clothes	1.6	3.2	6.4	9.6	12.8	16
Cooking	0.3	0.6	1.2	1.8	2.4	3
Handwashing	1	2	4	6	8	10
Other	5	10	20	30	40	50
Gallons per Day	41.9	83.8	167.6	251.4	335.2	419
Gallons per Month	1274	2549	5098	7647	10196	12745
Water Billing Gallons	2000	3000	6000	8000	11000	13000
Sewer Billing Gallons*	2000	3000	5000	7000	9000	11000

Water Rate Schedule						
Base Charge	\$10.80	\$10.80	\$10.80	\$10.80	\$10.80	\$10.80
Charge per 1000 Gals	\$3.91	\$4.14	\$4.37	\$4.58	\$4.75	\$4.82

Sewer Rate Schedule	
Base Charge	\$77.55
Charge per 1000 Gals	\$4.63

Monthly Cost Allowances

Bedroom Size >>>	0	1	2	3	4	5
Water Allowance	\$19	\$23	\$37	\$47	\$63	\$73
Sewer Allowance	\$87	\$91	\$101	\$110	\$119	\$128

*Actual consumption reduced by 20% for water irrigation factor

2020 Rate Calculation Form

Hawaii Public Housing Authority

Property Description: Lowrise
Utility Type: Electric
Utility Provider: HECO

Average Residential DSM Adjustments (per kWh)

Month	Amount	Month	Amount
January-19	\$0.000203	July-19	\$0.000133
February-19	\$0.000000	August-19	\$0.000000
March-19	\$0.000000	September-19	\$0.000000
April-19	\$0.000000	October-19	\$0.000000
May-19	\$0.000133	November-19	\$0.000000
June-19	\$0.000133	December-19	\$0.000000
Average Adjustment			\$0.000050

Average Energy Cost Adjustment Factors (per kWh)

Month	Amount	Month	Amount
January-19	\$0.140950	July-19	\$0.145450
February-19	\$0.120440	August-19	\$0.142970
March-19	\$0.134490	September-19	\$0.132400
April-19	\$0.143380	October-19	\$0.129510
May-19	\$0.147210	November-19	\$0.127780
June-19	\$0.151990	December-19	\$0.124090
Average Adjustment			\$0.13672

IRP Cost Recovery Provision

Month	Amount	Month	Amount
January-19	0.000%	July-19	0.000%
February-19	0.000%	August-19	0.000%
March-19	0.000%	September-19	0.000%
April-19	0.000%	October-19	0.000%
May-19	0.000%	November-19	0.000%
June-19	0.000%	December-19	0.000%
Average Adjustment			0.000%

2020 Rate Calculation Form

Hawaii Public Housing Authority

Property Description: Lowrise
Utility Type: Electric
Utility Provider: HECO

Rate Adjustment

Month	Amount	Month	Amount
January-19	0.000%	July-19	0.000%
February-19	0.000%	August-19	0.000%
March-19	0.000%	September-19	0.000%
April-19	0.000%	October-19	0.000%
May-19	0.000%	November-19	0.000%
June-19	0.000%	December-19	0.000%
Average Adjustment			0.000%

Summary of Rate Schedule -- Schedule "R"

Monthly Customer Base Charge*:	\$12.67
Non-Fuel Energy Charge**:	\$0.114983
Base Fuel/Energy Charge:	\$0.000000
IRP Cost Recovery Provision (Applies to Above 3 Charges):	0.000%
Rate Adjustment (Applies to Above 3 Charges):	0.000%
Average Residential DSM Adjustments:	\$0.000050
Average Energy Cost Adjustment Factors:	\$0.13672
PB Surcharge/Avg Purch Power Adj/RBA Rate Adj/RE Surcharge/DR Adj:	\$0.039436

* Includes Green Infrastructure Fee Surcharge

** Rate is a weighted average of the first and second tiers of the graduated schedule

2020 Utility Allowances

Hawaii Public Housing Authority

Property Description: Lowrise
Utility Type: Electric
Utility Provider: HECO

Consumption Allowances (kWh per Month)

Bedroom Size	Lights	Misc.	Refrig.	Total Basic	Electric Cooking	Electric Water Heating	Solar Water Heating*	Total
0	31	56	50	137	78	43	16	273
1	33	56	50	138	78	87	31	334
2	35	76	50	161	78	174	47	459
3	42	92	50	184	95	261	78	618
4	44	113	50	207	95	348	110	759
5	46	114	50	210	95	434	141	881

* Distribution by bedroom size based on number of occupants

Cost Allowances (\$ per Month)

Bedroom Size	Lights	Misc.	Refrig.	Total Basic**	Electric Cooking	Electric Water Heating	Solar Water Heating	Total
0	\$9.03	\$16.17	\$14.56	\$52	\$23	\$13	\$5	\$92
1	\$9.49	\$16.17	\$14.56	\$53	\$23	\$25	\$9	\$110
2	\$10.18	\$22.12	\$14.56	\$60	\$23	\$51	\$14	\$146
3	\$12.13	\$26.82	\$14.56	\$66	\$28	\$76	\$23	\$193
4	\$12.82	\$32.77	\$14.56	\$73	\$28	\$101	\$32	\$234
5	\$13.40	\$33.18	\$14.56	\$74	\$28	\$126	\$41	\$269

**Total Basic Includes Monthly Customer Base Charge. This is the amount for Other Electric.

Lighting Usage Tables

Hawaii Public Housing Authority

Property Description: Lowrise
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: **0**

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	1	13	3	39	14
Living Room	1	39	5	195	71
Dining Room	0	0	2	0	0
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	2	104	38
Bedroom	1	26	3	78	28
Lamps	0	0	4	0	0
Hall/Stairs	1	13	3	39	14
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Number of Bedrooms: **1**

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	1	13	3	39	14
Living Room	1	39	5	195	71
Dining Room	0	0	2	0	0
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	3	156	57
Bedroom	1	26	3	78	28
Lamps	0	0	4	0	0
Hall/Stairs	1	13	3	39	14
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Lighting Usage Tables

Hawaii Public Housing Authority

Property Description: Lowrise
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: **2**

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	1	13	3	39	14
Living Room	1	39	5	195	71
Dining Room	0	0	2	0	0
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	3	156	57
Bedroom	2	26	3	156	57
Lamps	0	0	4	0	0
Hall/Stairs	1	13	3	39	14
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Number of Bedrooms: **3**

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	1	13	3	39	14
Living Room	1	39	5	195	71
Dining Room	1	26	2	52	19
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	4	208	76
Bedroom	3	26	3	234	85
Lamps	0	0	4	0	0
Hall/Stairs	2	13	3	78	28
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Lighting Usage Tables

Hawaii Public Housing Authority

Property Description: Lowrise
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: **4**

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	1	13	3	39	14
Living Room	1	39	5	195	71
Dining Room	1	26	2	52	19
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	4	208	76
Bedroom	4	26	3	312	114
Lamps	0	0	4	0	0
Hall/Stairs	2	13	3	78	28
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Number of Bedrooms: **5**

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	1	13	3	39	14
Living Room	1	39	5	195	71
Dining Room	1	26	2	52	19
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	3	156	57
Bedroom	5	26	3	390	142
Lamps	0	0	4	0	0
Hall/Stairs	3	13	3	117	43
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Miscellaneous Small Appliance Usage Tables

Hawaii Public Housing Authority

Property Description: Lowrise
 Utility Type: Electric
 Utility Provider: HECO

Number of Bedrooms: 0

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	1	2	24.0	1.4	17
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	1	60	4.0	7.2	86
Hair Dryer	1	1200	0.1	3.0	36
Iron	1	1100	0.1	4.7	57
Microwave Oven	1	800	0.2	4.1	49
Radio	1	15	6.0	2.7	32
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	1	100	4.0	12.0	144

Number of Bedrooms: 1

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	1	2	24.0	1.4	17
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	1	60	4.0	7.2	86
Hair Dryer	1	1200	0.1	3.0	36
Iron	1	1100	0.1	4.7	57
Microwave Oven	1	800	0.2	4.1	49
Radio	1	15	6.0	2.7	32
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	1	100	4.0	12.0	144

Miscellaneous Small Appliance Usage Tables

Hawaii Public Housing Authority

Property Description: Lowrise
 Utility Type: Electric
 Utility Provider: HECO

Number of Bedrooms: 2

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	2	2	24.0	2.9	35
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	2	60	4.0	14.4	173
Hair Dryer	2	1200	0.1	6.0	72
Iron	1	1100	0.3	9.4	113
Microwave Oven	1	800	0.3	8.2	98
Radio	1	15	6.0	2.7	32
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	1	100	4.0	12.0	144

Number of Bedrooms: 3

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	3	2	24.0	4.3	52
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	2	60	4.0	14.4	173
Hair Dryer	2	1200	0.1	6.0	72
Iron	1	1100	0.3	9.4	113
Microwave Oven	1	800	0.3	8.2	98
Radio	2	15	6.0	5.4	65
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	2	100	4.0	24.0	288

Miscellaneous Small Appliance Usage Tables

Hawaii Public Housing Authority

Property Description: Lowrise
 Utility Type: Electric
 Utility Provider: HECO

Number of Bedrooms: 4

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	4	2	24.0	5.8	69
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	3	60	4.0	21.6	259
Hair Dryer	3	1200	0.1	9.0	108
Iron	1	1100	0.4	14.2	170
Microwave Oven	1	800	0.5	12.2	147
Radio	2	15	6.0	5.4	65
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	2	100	4.0	24.0	288

Number of Bedrooms: 5

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	5	2	24.0	7.2	86
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	3	60	4.0	21.6	259
Hair Dryer	3	1200	0.1	9.0	108
Iron	1	1100	0.4	14.2	170
Microwave Oven	1	800	0.5	12.2	147
Radio	2	15	6.0	5.4	65
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	2	100	4.0	24.0	288

2020 Allowances for Medical Equipment

Hawaii Public Housing Authority

Property Description: Lowrise
Utility Type: Electric
Utility Provider: HECO

Description	Frequency	kWh/Year	kWh/Month	Monthly Dollar Allowance
Air Conditioner, window type, 10,000 BtuH unit	Continuously As Needed	2,750	229	\$66.73
Oxygen Concentrator, 400W	18 Hrs/Day	2,628	219	\$63.77
Nebulizer, 75W	2 Hrs/Day	60	5	\$1.46
Electric Hospital Bed, 200W	.2 Hrs/Day	12	1	\$0.29
Alternating Pressure Pad, 70W	24 Hrs/Day	612	51	\$14.85
Low Air-Loss Mattress, 120W	24 Hrs/Day	1,056	88	\$25.62
Power Wheelchair/ Scooter, 550W, Full-Time Use	4 Hrs/Day Charge Time	803	67	\$19.49
Feeding Tube, 120W	12 Hrs/Day	526	44	\$12.75
CPAP Machine, 30W	10 Hrs/Day	110	9	\$2.66
Leg Pump, 14W	6 Hrs/Day	31	3	\$0.74

Water and Sewer Allowance Calculation

Hawaii Public Housing Authority

Property Description: Lowrise
 Utility Type: Water/Sewer
 Utility Provider: City/County of Honolulu

Standards Used in Calculating Water Usage				
Fixture/Use	Gallons	Times	Frequency	Description
Toilet	3.5	X	5	Flushes per Person per Day
Shower	15	X	1	Showers per Person per Day
Dishwasher	3	X	0.5	Dishloads per Person per Day
Laundry	8	X	0.2	Loads per Person per Day
Cooking	0.1	X	3	Meals per Person per Day
Handwashing	0.1	X	10	Handwashings per Person per Day
Other	5	X	1	Allowance per Person per Day

Calculation of Monthly Water Usage						
Bedroom Size >>>	0	1	2	3	4	5
# Occupants >>>	1	2	4	6	8	10
Toilet	17.5	35	70	105	140	175
Shower	15	30	60	90	120	150
Diswasher	1.5	3	6	9	12	15
Clothes	1.6	3.2	6.4	9.6	12.8	16
Cooking	0.3	0.6	1.2	1.8	2.4	3
Handwashing	1	2	4	6	8	10
Other	5	10	20	30	40	50
Gallons per Day	41.9	83.8	167.6	251.4	335.2	419
Gallons per Month	1274	2549	5098	7647	10196	12745
Water Billing Gallons	2000	3000	6000	8000	11000	13000
Sewer Billing Gallons*	2000	3000	5000	7000	9000	11000

Water Rate Schedule						
Base Charge	\$10.80	\$10.80	\$10.80	\$10.80	\$10.80	\$10.80
Charge per 1000 Gals	\$3.91	\$4.14	\$4.37	\$4.58	\$4.75	\$4.82

Sewer Rate Schedule	
Base Charge	\$77.55
Charge per 1000 Gals	\$4.63

Monthly Cost Allowances						
Bedroom Size >>>	0	1	2	3	4	5
Water Allowance	\$19	\$23	\$37	\$47	\$63	\$73
Sewer Allowance	\$87	\$91	\$101	\$110	\$119	\$128

*Actual consumption reduced by 20% for water irrigation factor

2020 Rate Calculation Form

Hawaii Public Housing Authority

Property Description: Highrise
Utility Type: Electric
Utility Provider: HECO

Average Residential DSM Adjustments (per kWh)

Month	Amount	Month	Amount
January-19	\$0.000203	July-19	\$0.000133
February-19	\$0.000000	August-19	\$0.000000
March-19	\$0.000000	September-19	\$0.000000
April-19	\$0.000000	October-19	\$0.000000
May-19	\$0.000133	November-19	\$0.000000
June-19	\$0.000133	December-19	\$0.000000
Average Adjustment			\$0.000050

Average Energy Cost Adjustment Factors (per kWh)

Month	Amount	Month	Amount
January-19	\$0.140950	July-19	\$0.145450
February-19	\$0.120440	August-19	\$0.142970
March-19	\$0.134490	September-19	\$0.132400
April-19	\$0.143380	October-19	\$0.129510
May-19	\$0.147210	November-19	\$0.127780
June-19	\$0.151990	December-19	\$0.124090
Average Adjustment			\$0.13672

IRP Cost Recovery Provision

Month	Amount	Month	Amount
January-19	0.000%	July-19	0.000%
February-19	0.000%	August-19	0.000%
March-19	0.000%	September-19	0.000%
April-19	0.000%	October-19	0.000%
May-19	0.000%	November-19	0.000%
June-19	0.000%	December-19	0.000%
Average Adjustment			0.000%

2020 Rate Calculation Form

Hawaii Public Housing Authority

Property Description: Highrise
Utility Type: Electric
Utility Provider: HECO

Rate Adjustment

Month	Amount	Month	Amount
January-19	0.000%	July-19	0.000%
February-19	0.000%	August-19	0.000%
March-19	0.000%	September-19	0.000%
April-19	0.000%	October-19	0.000%
May-19	0.000%	November-19	0.000%
June-19	0.000%	December-19	0.000%
Average Adjustment			0.000%

Summary of Rate Schedule -- Schedule "R"

Monthly Customer Base Charge*:	\$12.67
Non-Fuel Energy Charge**:	\$0.114983
Base Fuel/Energy Charge:	\$0.000000
IRP Cost Recovery Provision (Applies to Above 3 Charges):	0.000%
Rate Adjustment (Applies to Above 3 Charges):	0.000%
Average Residential DSM Adjustments:	\$0.000050
Average Energy Cost Adjustment Factors:	\$0.13672
PB Surcharge/Avg Purch Power Adj/RBA Rate Adj/RE Surcharge/DR Adj:	\$0.039436

* Includes Green Infrastructure Fee Surcharge

** Rate is a weighted average of the first and second tiers of the graduated schedule

2020 Utility Allowances

Hawaii Public Housing Authority

Property Description: Highrise
Utility Type: Electric
Utility Provider: HECO

Consumption Allowances (kWh per Month)

Bedroom Size	Lights	Misc.	Refrig.	Total Basic	Electric Cooking	Electric Water Heating	Solar Water Heating*	Total
0	30	56	50	135	78	43	16	272
1	31	56	50	137	78	87	31	332
2	34	76	50	160	78	174	47	458
3	40	92	50	183	95	261	78	616
4	43	113	50	205	95	348	110	758
5	45	114	50	209	95	434	141	879

* Distribution by bedroom size based on number of occupants

Cost Allowances (\$ per Month)

Bedroom Size	Lights	Misc.	Refrig.	Total Basic**	Electric Cooking	Electric Water Heating	Solar Water Heating	Total
0	\$8.68	\$16.17	\$14.56	\$52	\$23	\$13	\$5	\$92
1	\$9.14	\$16.17	\$14.56	\$53	\$23	\$25	\$9	\$109
2	\$9.83	\$22.12	\$14.56	\$59	\$23	\$51	\$14	\$146
3	\$11.79	\$26.82	\$14.56	\$66	\$28	\$76	\$23	\$192
4	\$12.48	\$32.77	\$14.56	\$72	\$28	\$101	\$32	\$233
5	\$13.06	\$33.18	\$14.56	\$73	\$28	\$126	\$41	\$269

**Total Basic Includes Monthly Customer Base Charge. This is the amount for Other Electric.

Lighting Usage Tables

Hawaii Public Housing Authority

Property Description: Highrise
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: 0

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	0	0	3	0	0
Living Room	1	39	5	195	71
Dining Room	0	0	2	0	0
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	2	104	38
Bedroom	1	26	3	78	28
Lamps	0	0	4	0	0
Hall/Stairs	1	13	3	39	14
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Number of Bedrooms: 1

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	0	0	3	0	0
Living Room	1	39	5	195	71
Dining Room	0	0	2	0	0
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	3	156	57
Bedroom	1	26	3	78	28
Lamps	0	0	4	0	0
Hall/Stairs	1	13	3	39	14
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Lighting Usage Tables

Hawaii Public Housing Authority

Property Description: Highrise
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: 2

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	0	0	3	0	0
Living Room	1	39	5	195	71
Dining Room	0	0	2	0	0
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	3	156	57
Bedroom	2	26	3	156	57
Lamps	0	0	4	0	0
Hall/Stairs	1	13	3	39	14
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Number of Bedrooms: 3

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	0	0	3	0	0
Living Room	1	39	5	195	71
Dining Room	1	26	2	52	19
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	4	208	76
Bedroom	3	26	3	234	85
Lamps	0	0	4	0	0
Hall/Stairs	2	13	3	78	28
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Lighting Usage Tables

Hawaii Public Housing Authority

Property Description: Highrise
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: 4

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	0	0	3	0	0
Living Room	1	39	5	195	71
Dining Room	1	26	2	52	19
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	4	208	76
Bedroom	4	26	3	312	114
Lamps	0	0	4	0	0
Hall/Stairs	2	13	3	78	28
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Number of Bedrooms: 5

Area Description	Number of Fixtures	Watts per Fixture	Hours per Day	Watts per Day	kWh per Year
Porches	0	0	3	0	0
Living Room	1	39	5	195	71
Dining Room	1	26	2	52	19
Kitchen	1	128	4	512	187
Pantry	1	13	2	26	9
Bathroom	1	52	3	156	57
Bedroom	5	26	3	390	142
Lamps	0	0	4	0	0
Hall/Stairs	3	13	3	117	43
Closet	1	13	1	13	5
Utility	0	0	1	0	0
Storage	1	13	1	13	5

Miscellaneous Small Appliance Usage Tables

Hawaii Public Housing Authority

Property Description: Highrise
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: 0

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	1	2	24.0	1.4	17
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	1	60	4.0	7.2	86
Hair Dryer	1	1200	0.1	3.0	36
Iron	1	1100	0.1	4.7	57
Microwave Oven	1	800	0.2	4.1	49
Radio	1	15	6.0	2.7	32
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	1	100	4.0	12.0	144

Number of Bedrooms: 1

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	1	2	24.0	1.4	17
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	1	60	4.0	7.2	86
Hair Dryer	1	1200	0.1	3.0	36
Iron	1	1100	0.1	4.7	57
Microwave Oven	1	800	0.2	4.1	49
Radio	1	15	6.0	2.7	32
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	1	100	4.0	12.0	144

Miscellaneous Small Appliance Usage Tables

Hawaii Public Housing Authority

Property Description: Highrise
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: 2

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	2	2	24.0	2.9	35
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	2	60	4.0	14.4	173
Hair Dryer	2	1200	0.1	6.0	72
Iron	1	1100	0.3	9.4	113
Microwave Oven	1	800	0.3	8.2	98
Radio	1	15	6.0	2.7	32
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	1	100	4.0	12.0	144

Number of Bedrooms: 3

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	3	2	24.0	4.3	52
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	2	60	4.0	14.4	173
Hair Dryer	2	1200	0.1	6.0	72
Iron	1	1100	0.3	9.4	113
Microwave Oven	1	800	0.3	8.2	98
Radio	2	15	6.0	5.4	65
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	2	100	4.0	24.0	288

Miscellaneous Small Appliance Usage Tables

Hawaii Public Housing Authority

Property Description: Highrise
Utility Type: Electric
Utility Provider: HECO

Number of Bedrooms: 4

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	4	2	24.0	5.8	69
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	3	60	4.0	21.6	259
Hair Dryer	3	1200	0.1	9.0	108
Iron	1	1100	0.4	14.2	170
Microwave Oven	1	800	0.5	12.2	147
Radio	2	15	6.0	5.4	65
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	2	100	4.0	24.0	288

Number of Bedrooms: 5

Area Description	Number of Appliances	Watts per Appliance	Hours per Day	kWh per Month	kWh per Year
Clocks	5	2	24.0	7.2	86
Coffee Maker	1	1000	0.2	5.1	61
Computer, Desktop	1	65	2.0	3.9	47
Computer Monitor, 15"	1	35	4.0	4.2	50
Fan	3	60	4.0	21.6	259
Hair Dryer	3	1200	0.1	9.0	108
Iron	1	1100	0.4	14.2	170
Microwave Oven	1	800	0.5	12.2	147
Radio	2	15	6.0	5.4	65
Smoke Detector	2	2	24.0	2.9	35
Telephone	1	6	24.0	4.3	52
Television	2	100	4.0	24.0	288

2020 Allowances for Medical Equipment

Hawaii Public Housing Authority

Property Description: Highrise
Utility Type: Electric
Utility Provider: HECO

Description	Frequency	kWh/Year	kWh/Month	Monthly Dollar Allowance
Air Conditioner, window type, 10,000 BtuH unit	Continuously As Needed	2,750	229	\$66.73
Oxygen Concentrator, 400W	18 Hrs/Day	2,628	219	\$63.77
Nebulizer, 75W	2 Hrs/Day	60	5	\$1.46
Electric Hospital Bed, 200W	.2 Hrs/Day	12	1	\$0.29
Alternating Pressure Pad, 70W	24 Hrs/Day	612	51	\$14.85
Low Air-Loss Mattress, 120W	24 Hrs/Day	1,056	88	\$25.62
Power Wheelchair/ Scooter, 550W, Full-Time Use	4 Hrs/Day Charge Time	803	67	\$19.49
Feeding Tube, 120W	12 Hrs/Day	526	44	\$12.75
CPAP Machine, 30W	10 Hrs/Day	110	9	\$2.66
Leg Pump, 14W	6 Hrs/Day	31	3	\$0.74

Water and Sewer Allowance Calculation

Hawaii Public Housing Authority

Property Description: Highrise
 Utility Type: Water/Sewer
 Utility Provider: City/County of Honolulu

Standards Used in Calculating Water Usage				
Fixture/Use	Gallons	Times	Frequency	Description
Toilet	3.5	X	5	Flushes per Person per Day
Shower	15	X	1	Showers per Person per Day
Dishwasher	3	X	0.5	Dishloads per Person per Day
Laundry	8	X	0.2	Loads per Person per Day
Cooking	0.1	X	3	Meals per Person per Day
Handwashing	0.1	X	10	Handwashings per Person per Day
Other	5	X	1	Allowance per Person per Day

Calculation of Monthly Water Usage						
Bedroom Size >>>	0	1	2	3	4	5
# Occupants >>>	1	2	4	6	8	10
Toilet	17.5	35	70	105	140	175
Shower	15	30	60	90	120	150
Diswasher	1.5	3	6	9	12	15
Clothes	1.6	3.2	6.4	9.6	12.8	16
Cooking	0.3	0.6	1.2	1.8	2.4	3
Handwashing	1	2	4	6	8	10
Other	5	10	20	30	40	50
Gallons per Day	41.9	83.8	167.6	251.4	335.2	419
Gallons per Month	1274	2549	5098	7647	10196	12745
Water Billing Gallons	2000	3000	6000	8000	11000	13000
Sewer Billing Gallons*	2000	3000	5000	7000	9000	11000

Water Rate Schedule						
Base Charge	\$10.80	\$10.80	\$10.80	\$10.80	\$10.80	\$10.80
Charge per 1000 Gals	\$3.91	\$4.14	\$4.37	\$4.58	\$4.75	\$4.82

Sewer Rate Schedule	
Base Charge	\$77.55
Charge per 1000 Gals	\$4.63

Monthly Cost Allowances						
Bedroom Size >>>	0	1	2	3	4	5
Water Allowance	\$19	\$23	\$37	\$47	\$63	\$73
Sewer Allowance	\$87	\$91	\$101	\$110	\$119	\$128

*Actual consumption reduced by 20% for water irrigation factor

NATURAL GAS ALLOWANCE DETAIL

2020 Rate Calculation Form

Hawaii Public Housing Authority

Utility Type: LP -- Utility
Property Description: Single Family

Fuel Adjustment Cost (FAC) (per Therm)

Month	Amount	Month	Amount
January-19	-\$0.2011	July-19	\$0.1465
February-19	-\$0.8940	August-19	\$0.3639
March-19	\$0.0396	September-19	\$0.2784
April-19	\$0.4446	October-19	\$0.1877
May-19	\$0.6257	November-19	\$0.5280
June-19	\$0.7762	December-19	-\$0.0276
Average Adjustment			\$0.1890

Summary of Rate Schedule -- Schedule 20 - Residential

Monthly Customer Base Charge: \$9.60
Commodity Charge -- All Therms \$4.3360
Average Fuel Adjustment Cost: \$0.1890
Applicable Tax Rate 4.712%

2020 Utility Allowances

Hawaii Public Housing Authority

Utility Type: LP -- Utility
Property Description: Single Family

Consumption Allowances (Therms per Month)

Bedroom Size	Cooking	Individual Water Heating	Total
0	4.50	5.25	9.75
1	4.50	7.50	12.00
2	4.50	12.00	16.50
3	5.50	16.58	22.08
4	5.50	21.08	26.58
5	5.50	25.67	31.17

Cost Allowances (\$ per Month)

Bedroom Size	Cooking*	Individual Water Heating	Total
0	\$31	\$25	\$56
1	\$31	\$36	\$67
2	\$31	\$57	\$88
3	\$36	\$79	\$115
4	\$36	\$100	\$136
5	\$36	\$122	\$158

*Total Basic Includes Monthly Customer Base Charge

2020 Rate Calculation Form

Hawaii Public Housing Authority

Utility Type: LP -- Utility
Property Description: Duplex

Fuel Adjustment Cost (FAC) (per Therm)

Month	Amount	Month	Amount
January-19	-\$0.2011	July-19	\$0.1465
February-19	-\$0.8940	August-19	\$0.3639
March-19	\$0.0396	September-19	\$0.2784
April-19	\$0.4446	October-19	\$0.1877
May-19	\$0.6257	November-19	\$0.5280
June-19	\$0.7762	December-19	-\$0.0276
Average Adjustment			\$0.1890

Summary of Rate Schedule -- Schedule 20 - Residential

Monthly Customer Base Charge: \$9.60
Commodity Charge -- All Therms \$4.3360
Average Fuel Adjustment Cost: \$0.1890
Applicable Tax Rate 4.712%

2020 Utility Allowances

Hawaii Public Housing Authority

Utility Type: LP -- Utility
Property Description: Duplex

Consumption Allowances (Therms per Month)

Bedroom Size	Cooking	Individual Water Heating	Total
0	4.50	5.25	9.75
1	4.50	7.50	12.00
2	4.50	12.00	16.50
3	5.50	16.58	22.08
4	5.50	21.08	26.58
5	5.50	25.67	31.17

Cost Allowances (\$ per Month)

Bedroom Size	Cooking*	Individual Water Heating	Total
0	\$31	\$25	\$56
1	\$31	\$36	\$67
2	\$31	\$57	\$88
3	\$36	\$79	\$115
4	\$36	\$100	\$136
5	\$36	\$122	\$158

*Total Basic Includes Monthly Customer Base Charge

2020 Rate Calculation Form

Hawaii Public Housing Authority

Utility Type: LP -- Utility
Property Description: Townhouse

Fuel Adjustment Cost (FAC) (per Therm)

Month	Amount	Month	Amount
January-19	-\$0.2011	July-19	\$0.1465
February-19	-\$0.8940	August-19	\$0.3639
March-19	\$0.0396	September-19	\$0.2784
April-19	\$0.4446	October-19	\$0.1877
May-19	\$0.6257	November-19	\$0.5280
June-19	\$0.7762	December-19	-\$0.0276
Average Adjustment			\$0.1890

Summary of Rate Schedule -- Schedule 20 - Residential

Monthly Customer Base Charge: \$9.60
Commodity Charge -- All Therms \$4.3360
Average Fuel Adjustment Cost: \$0.1890
Applicable Tax Rate 4.712%

2020 Utility Allowances

Hawaii Public Housing Authority

Utility Type: LP -- Utility
Property Description: Townhouse

Consumption Allowances (Therms per Month)

Bedroom Size	Cooking	Individual Water Heating	Total
0	4.50	5.25	9.75
1	4.50	7.50	12.00
2	4.50	12.00	16.50
3	5.50	16.58	22.08
4	5.50	21.08	26.58
5	5.50	25.67	31.17

Cost Allowances (\$ per Month)

Bedroom Size	Cooking*	Individual Water Heating	Total
0	\$31	\$25	\$56
1	\$31	\$36	\$67
2	\$31	\$57	\$88
3	\$36	\$79	\$115
4	\$36	\$100	\$136
5	\$36	\$122	\$158

*Total Basic Includes Monthly Customer Base Charge

2020 Rate Calculation Form

Hawaii Public Housing Authority

Utility Type: LP -- Utility
Property Description: Lowrise

Fuel Adjustment Cost (FAC) (per Therm)

Month	Amount	Month	Amount
January-19	-\$0.2011	July-19	\$0.1465
February-19	-\$0.8940	August-19	\$0.3639
March-19	\$0.0396	September-19	\$0.2784
April-19	\$0.4446	October-19	\$0.1877
May-19	\$0.6257	November-19	\$0.5280
June-19	\$0.7762	December-19	-\$0.0276
Average Adjustment			\$0.1890

Summary of Rate Schedule -- Schedule 20 - Residential

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2020 Rate Calculation Form

Hawaii Public Housing Authority

Utility Type: LP -- Utility
Property Description: Highrise

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