



November 26, 2021

The Honorable Chair and Members  
of the Hawai'i Public Utilities Commission  
Kekuanao'a Building, First Floor  
465 South King Street  
Honolulu, Hawai'i 96813

Dear Commissioners:

Subject: Maui Electric Energy Cost Recovery Factor for December 2021

Maui Electric Company, Limited's ("Maui Electric" or "Company") December 2021 Energy Cost Recovery factor for our Maui Division is 17.109 cents per kilowatt-hour ("kWh"), a decrease of 1.910 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$170.52, a decrease of \$9.55 compared to rates effective November 1, 2021. The decrease in the typical residential bill is due to the decrease in the Energy Cost Recovery factor.

The Company's Maui Division fuel composite cost of generation, central station and other increased 186.790 cents per million BTU to 1,747.90 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy decreased 9.288 cents per kWh to 9.190 cents per kWh.

The Energy Cost Recovery factor for our Lāna'i Division for December 2021 is 29.254 cents per kWh, an increase of 0.063 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$189.40, an increase of \$0.26 compared to rates effective November 1, 2021. The increase in the typical residential bill is due to the increase in the Energy Cost Recovery factor.

The Company's Lāna'i Division fuel composite cost of generation, central station and other decreased 2.95 cents per million BTU to 2,529.62 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy is 30.00 cents per kWh.

The Energy Cost Recovery factor for our Moloka'i Division for December 2021 is 20.186 cents per kWh, an increase of 0.053 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$160.27, an increase of \$0.21 compared to rates effective November 1, 2021. The increase in the typical residential bill is due to the increase in the Energy Cost Recovery factor.

The Company's Moloka'i Division fuel composite cost of generation, central station and other increased 4.48 cents per million BTU to 1,689.20 cents per million BTU. The composite cost of

The Honorable Chair and Members  
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DG energy is 0.00 cents per kWh. The composite cost of purchased energy is 21.80 cents per kWh.

The attached sheets set forth the fuel adjustment in cents per kWh for each rate schedule that is applicable for pro rata use beginning December 1, 2021.

Sincerely,

/s/ Dean K. Matsuura  
Dean K. Matsuura  
Director, Regulatory Rate Proceedings  
Hawaiian Electric Company, Inc.

Attachments

cc: Division of Consumer Advocacy

**MAUI ELECTRIC COMPANY, LTD.  
LANAI DIVISION**

**ENERGY COST RECOVERY FACTOR**

	EFFECTIVE DATES		<u>Change</u>
	<u>11-01-21</u>	<u>12-01-21</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	2,532.57	2,529.62	(2.95)
DG Energy, ¢/kWh	0.00	0.00	0.00
Purchased Energy, ¢/kWh	30.00	30.00	0.00
<u>Residential Schedule "R"</u>			
Energy Cost Recovery, ¢/kWh	29.191	29.254	0.063
<u>Others - "G,P,F"</u>			
Energy Cost Recovery, ¢/kWh	29.191	29.254	0.063
<u>Residential Customer with</u>			
400 KWH Consumption, \$/Bill	189.14	189.40	0.26
500 KWH Consumption, \$/Bill	234.82	235.13	0.31

Supersedes Sheet Effective:

November 1, 2021

MAUI ELECTRIC COMPANY, LTD.  
LANAI DIVISION

ENERGY COST RECOVERY (ECR) FILING

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

Line

1 Effective Date December 1, 2021  
2 Supercedes Factors of November 1, 2021

**GENERATION COMPONENT**

CENTRAL STATION				DG ENERGY COMPONENT		
FUEL PRICES, ¢/mmbtu						
3	Industrial		0.00			
4	Diesel - Miki Basin		2,529.62			
5						
6	Other		0.00			
BTU MIX, %						
7	Industrial		0.00%	25	COMPOSITE COST OF DG ENERGY, ¢/kWh	
8	Diesel - Miki Basin		100.00%		0.000	
9						
10	Other		0.00%	26	% Input to System kWh Mix	
			100.00%		0.00%	
11	COMPOSITE COST OF GENERATION, CENTRAL STATION + OTHER ¢/mmbtu (Lines (3 x 7) + (4 x 8) + (5 x 9) + (6 x 10))		2,529.62	27	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 25 x 26)	
12	% Input to System kWh Mix		96.88%		0.00000	
EFFICIENCY FACTOR, mmbtu/kWh						
	(A)	(B)	(C)	(D)		
	Fuel Type	Eff Factor mmbtu/kwh	Percent of Centrl Stn + Other	Weighted Eff Factor		
13	Industrial	0.000000	0.00	0.000000	31	Cost Less Base (Line 27 - 30)
14	Diesel	0.010810	100.00	0.010810	32	Loss Factor
15	Other	0.010810	0.00	0.000000	33	Revenue Tax Req Multiplier
	(Lines 13, 14, 15): Col(B) x Col(C) = Col(D)				34	DG FACTOR, ¢/kWh (Line 31 x 32 x 33)
16	Weighted Efficiency Factor, mmbtu/kWh (lines 13(D) + 14(D) + 15(D))		0.010810			0.00000
17	WEIGHTED COMPOSITE CENTRAL STATION + OTHER GEN COST, ¢/kWh (lines (11 x 12 x 16))		26.49202			
18	BASE CENTRAL STATION + OTHER GENERATION COST, ¢/mmbtu		-			
19	Base % Input to Sys kWh Mix		0.00%			
20	Efficiency Factor, mmbtu/kwh		0.010810			
21	WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST ¢/kWh (lines (18 x 19 x 20))		-			
22	COST LESS BASE (line(17 - 21))		26.49202			
23	Revenue Tax Req Multiplier		1.0975			
24	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (22 x 23))		29.07499			
				SUMMARY OF		
				TOTAL GENERATION FACTOR, ¢/kWh		
				35	CNTRL STN + OTHER (line 24)	
					29.07499	
				36	DG (line 34)	
					-	
				37	TOTAL GENERATION FACTOR, ¢/kWh (lines 35 + 36)	
					29.07499	

MAUI ELECTRIC COMPANY, LTD.  
LANAI DIVISION

ENERGY COST RECOVERY (ECR) FILING

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

Line

1 Effective Date December 1, 2021  
2 Supercedes Factors of November 1, 2021

<u>Line</u>	<b>PURCHASED ENERGY COMPONENT</b>	
	PURCHASED ENERGY PRICE, ¢/kWh - FOSSIL	
	PURCHASED ENERGY PRICE, ¢/kWh - RENEWABLE	
38	LANAI SOLAR RESEARCH - On Peak	30.000
39	- Off Peak	30.000
40	Sch Q	0.000
	PURCHASED ENERGY KWH MIX, %, FOSSIL	
	PURCHASED ENERGY KWH MIX, %, RENEWABLE	
41	LANAI SOLAR RESEARCH - On Peak	100.00%
42	- Off Peak	0.00%
43	Sch Q	0.00%
43A	Total Fossil %	0.00%
43B	Total Renewable %	100.00%
43C	Comp. cost of purch. energy, fossil ¢/kWh	N/A
43D	Comp. cost of purch. energy, renewable ¢/kWh	30.00
44	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh (Lines (38 x 41) + (39 x 42) + (40 x 43))	30.000
45	% Input to System kWh Mix	3.12%
46	WEIGHTED COMP. PURCH. ENERGY COST, ¢/kWh (lines (44 x 45))	0.93600
47	BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh	0.000
48	Base % Input to Sys kWh Mix	0.00
49	WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (lines (47 x 48))	0.00000
50	COST LESS BASE(lines (46 - 49))	0.93600
51	Loss Factor	1.050
52	Revenue Tax Req Multiplier	1.0975
53	PURCHASED ENERGY FACTOR, ¢/kWh (lines (50 x 51 x 52))	1.07862

**Calculation of Monthly Fossil Fuel Cost Risk Sharing Component**

<b>Baseline Diesel</b>		
54	Diesel \$, baseline month	\$492,321
55	Diesel mmbtu, baseline	29,347
56	Baseline Diesel, ¢/mmbtu	1,677.61
<b>Month Diesel</b>		
57	Diesel mmbtu, budget	32,379
58	Diesel Cost, ¢/mmbtu	2,529.62
59	Diesel ECRC Fossil Cost	\$819,060
60	Diesel Base ECRC Recovery Target	\$543,189
61	Diesel differential	\$275,871
62	Total Fossil	\$275,871
63	2% of above	\$5,517
64	Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year	\$28,298
65	Maximum Annual Cap (bi-directional)	\$31,500
66	Number of Days in year from implementation	365
67	Fossil Risk % Proration (based on 365 day year)	100.00%
68	Maximum Annual Cap (bi-directional) prorated	\$31,500
69	Applicable Monthly Fossil Fuel Cost Risk Sharing	\$3,202
70	Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month	\$31,500
71	Fossil Cost Risk Sharing before taxes	\$3,202
72	Revenue Tax Adjustment	1,097.514
73	Fossil Cost Risk Sharing w/revenue tax	\$3,515
74	Forecasted Month MWh Sales	3,120
75	Fossil Fuel Cost Risk Sharing Component, ¢/kWh	-0.1127

Line **SYSTEM COMPOSITE CALCULATIONS**

76	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (lines (37 + 53))	30.15361
77	Adjustment, ¢/kWh	0.000
78	Fossil Fuel Cost Risk Sharing Component	(0.113)
79	ECR Reconciliation Adjustment	(0.787)
80	ECR FACTOR, ¢/kWh (lines (76 + 77 + 78 + 79))	29.254

**Maui Electric Company, Ltd.  
Lanai Division**

**MONTH END FUEL OIL ESTIMATE**

<u>Miki Basin - ULSD</u>	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
11/18/2021	4,475.98	25,647.36	664,459.98
Estimated Use	2,112.55	12,104.91	306,565.36
Estimated Received	1,142.86	6,548.59	167,658.70
Estimated Additional	2,144.50	12,287.96	293,513.90
Estimated End	5,650.79	32,379.00	819,067.22

Next Month's Combined Miki Expense (\$/bbl) = \$ 144.9474 /bbl

**FUEL OIL INVENTORY PRICE USED FOR FILING**

<u>Type of Oil Burned</u>	<u>Price</u>	<u>Conversion Factor</u>	<u>Prices ¢/MBTU</u>
Diesel - Miki Basin	\$ 144.9474	5.73 BTU/BBL	2,529.62

**MAUI ELECTRIC COMPANY, LTD.**  
**Lanai Division**  
**ECR Reconciliation Adjustment**

**December 2021**

1. Amount to be refunded	(\$67,100)
2. Monthly amount (1 / 3 X Line 1)	(\$22,367)
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	(\$24,548)
5. Estimated Sales (December 2021)	3,120 mwh
6. Adjustment (Line 4 ÷ Line 5)	-0.787 ¢/kwh

**MAUI ELECTRIC COMPANY, LTD.**  
**LANAI DIVISION**  
**2021 Cumulative Reconciliation Balance**

<u>Month</u>	<u>YTD FOA Reconciliation</u>	<u>Qtr</u>	<u>Adjust Variance</u>	<u>FOA Rec Less Variance</u>	<u>Try to Collect</u>	<u>Actual Collect</u>	<u>Month-end Cumulative Balance</u>
	(1)		(2)	(3)	(4)	(5)	(6)
December '19					7,933	8,627	(7,003)
January '20					7,933	8,106	1,103
February	83,900	(4)	938	82,962	(27,967)	(28,222)	55,843
March					(27,967)	(27,038)	28,805
April					(27,967)	(21,694)	7,111
May	78,000	(1)	847	77,153	(26,000)	(28,250)	56,014
June					(26,000)	(27,227)	28,787
July					(26,000)	(29,208)	(421)
August	70,400	(2)	2,796	67,604	(23,467)	(22,814)	44,369
September					(23,467)	(18,781)	25,588
October					(23,467)	(21,969)	3,619
November	85,200	(3)	2,131	83,069	(28,400)	(25,719)	60,969
December					(28,400)	(28,503)	32,466
January '21					(28,400)	(25,647)	6,819
February	70,000	(4)	4,076	65,924	(23,333)	(20,929)	51,814
March					(23,333)	(21,960)	29,854
April					(23,333)	(21,452)	8,402
May	80,200	(1)	6,530	73,670	(26,733)	(25,485)	56,587
June					(26,733)	(25,141)	31,446
July					(26,733)	(25,403)	6,043
August	69,700	(2)	4,721	64,979	(23,233)	(22,228)	48,794
September					(23,233)	(20,522)	28,272
October					(23,233)	(21,136)	7,136
November	67,100	(3)	5,046	62,054	(22,367)		
December					(22,367)		

## NOTES:

- Col(1): Quarterly FOA reconciliation amounts. (Refer to Attachment 13)  
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))



**Maui Electric Company, Ltd.  
Lanai Division  
Calculations of the Average Residential Customer Bill**

	Rate		Charge (\$) at 400 Kwh		
	11-01-21	12-01-21	11-01-21	12-01-21	Difference
<b>Base Rates</b>					
effective date:	09/01/19	09/01/19			
Base Fuel/Energy Charge ¢/kWh	0.0000	0.0000	0.00	0.00	0.00
Non-fuel Energy Charge					
First 250 kWh per month ¢/kWh	12.3123	12.3123	30.78	30.78	0.00
Next 500 kWh per month ¢/kWh	14.8123	14.8123	22.22	22.22	0.00
Customer Charge \$	11.50	11.50	11.50	11.50	0.00
<b>Total Base Charges</b>			<b>64.50</b>	<b>64.50</b>	<b>0.00</b>
<b>IRP Refund</b>					
% on base	0.0000	0.0000	0.00	0.00	0.00
<b>Revenue Balancing Rate Adjustment</b> ¢/kWh	1.0242	1.0242	4.10	4.10	0.00
<b>PBF Surcharge</b> ¢/kWh	0.6478	0.6478	2.59	2.59	0.00
<b>Renewable Energy Infrastructure Cost Recovery Provision</b> ¢/kWh	0.0000	0.0000	0.00	0.00	0.00
<b>SolarSaver Adjustment</b> ¢/kWh	0.0000	0.0000	0.00	0.00	0.00
<b>Energy Cost Recovery</b> ¢/kWh	29.191	29.254	116.76	117.02	0.26
<b>Green Infrastructure Fee</b> \$	1.19	1.19	1.19	1.19	0.00
<b>Avg Residential Bill at 400 kwh</b>			<b>189.14</b>	<b>189.40</b>	

Increase (Decrease -)	0.26
% Change	0.14%

	Rate		Charge (\$) at 500 Kwh		
	11-01-21	12-01-21	11-01-21	12-01-21	Difference
<b>Base Rates</b>					
effective date:	09/01/19	09/01/19			
Base Fuel/Energy Charge ¢/kWh	0.0000	0.0000	0.00	0.00	0.00
Non-fuel Energy Charge					
First 250 kWh per month ¢/kWh	12.3123	12.3123	30.78	30.78	0.00
Next 500 kWh per month ¢/kWh	14.8123	14.8123	37.03	37.03	0.00
Customer Charge \$	11.50	11.50	11.50	11.50	0.00
<b>Total Base Charges</b>			<b>79.31</b>	<b>79.31</b>	<b>0.00</b>
<b>IRP Refund</b>					
% on base	0.0000	0.0000	0.00	0.00	0.00
<b>Revenue Balancing Rate Adjustment</b> ¢/kWh	1.0242	1.0242	5.12	5.12	0.00
<b>PBF Surcharge</b> ¢/kWh	0.6478	0.6478	3.24	3.24	0.00
<b>Renewable Energy Infrastructure Cost Recovery Provision</b> ¢/kWh	0.0000	0.0000	0.00	0.00	0.00
<b>SolarSaver Adjustment</b> ¢/kWh	0.0000	0.0000	0.00	0.00	0.00
<b>Energy Cost Recovery</b> ¢/kWh	29.191	29.254	145.96	146.27	0.31
<b>Green Infrastructure Fee</b> \$	1.19	1.19	1.19	1.19	0.00
<b>Avg Residential Bill at 500 kwh</b>			<b>234.82</b>	<b>235.13</b>	

Increase (Decrease -)	0.31
% Change	0.13%

**MAUI ELECTRIC COMPANY, LTD. -- Lanai Division  
FUEL OIL ADJUSTMENT FACTOR DATA**

<u>EFFECTIVE DATE</u>	FUEL FACTOR CENTS / KWH		RESIDENTIAL BILL (\$)
	<u>RESIDENTIAL &amp; COMMERCIAL</u>	<u>@ 400 KWH</u>	<u>@ 500 KWH</u>
January 1, 2019	-6.950	165.81	206.32
February 1, 2019	-8.789	158.45	197.12
March 1, 2019	-6.041	169.45	210.86
April 1, 2019	-6.801	166.07	206.63
May 1, 2019	-7.864	162.15	201.75
June 1, 2019	4.196	172.73	214.30
July 1, 2019	3.088	171.26	212.48
August 1, 2019	3.232	171.84	213.20
September 1, 2019	24.278	168.18	208.62
October 1, 2019	24.957	170.90	212.02
November 1, 2019	26.088	175.42	217.67
December 1, 2019	26.449	176.87	219.48
January 1, 2020	25.369	173.69	215.49
February 1, 2020	24.109	168.65	209.19
March 1, 2020	23.379	165.73	205.54
April 1, 2020	19.794	151.15	187.31
May 1, 2020	18.958	148.04	183.43
June 1, 2020	15.429	131.79	163.12
July 1, 2020	16.335	134.73	166.81
August 1, 2020	17.755	140.41	173.91
September 1, 2020	18.135	141.93	175.81
October 1, 2020	18.076	141.69	175.51
November 1, 2020	17.881	140.91	174.54
December 1, 2020	17.874	140.89	174.50
January 1, 2021	19.498	147.44	182.68
February 1, 2021	20.640	152.01	188.39
March 1, 2021	22.103	157.86	195.71
April 1, 2021	24.018	165.34	205.06
May 1, 2021	24.354	166.87	206.96
June 1, 2021	23.796	167.38	207.60
July 1, 2021	24.680	171.10	212.26
August 1, 2021	25.269	173.46	215.21
September 1, 2021	25.345	173.76	215.59
October 1, 2021	24.342	169.75	210.57
November 1, 2021	29.191	189.14	234.82
December 1, 2021	29.254	189.40	235.13

**MAUI ELECTRIC COMPANY, LTD. -- Lanai Division  
RESIDENTIAL SURCHARGE DATA**

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
<b>06/01/11</b>	<b>IRP RECOVERY REFUND</b>	<b>0.000 PERCENT ON BASE</b>
<b>08/17/17</b>	<b>RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION</b>	<b>0.0000 CENTS/KWH</b>
01/01/18 - 06/30/18	GREEN INFRASTRUCTURE FEE	1.34 DOLLARS/MONTH
04/01/18 - 04/30/18	SOLARSAVER ADJUSTMENT	1.3400 CENTS/KWH
05/01/18 - 03/31/19	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/18 - 08/22/18	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.8954 CENTS/KWH
07/01/18 - 06/30/19	RESID. PBF SURCHARGE ADJUSTMENT	0.4658 CENTS/KWH
07/01/18 - 12/31/18	GREEN INFRASTRUCTURE FEE	1.21 DOLLARS/MONTH
08/23/18 - 05/31/19	INTERIM RATE INCREASE 2018 TEST YEAR	6.36 PERCENT ON BASE
08/23/18 - 05/31/19	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.3183 CENTS/KWH
01/01/19 - 06/30/19	GREEN INFRASTRUCTURE FEE	1.35 DOLLARS/MONTH
04/01/19 - 04/30/19	SOLARSAVER ADJUSTMENT	-0.0855 CENTS/KWH
05/01/19 - 03/31/20	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
<b>06/01/19</b>	<b>FINAL RATE INCREASE (3.74%), DOCKET NO. 2017-0150 (2018 TEST YEAR)</b>	
06/01/19 - 06/30/19	REFUND OF INTERIM RATE INCREASE 2018 TEST YEAR	-2.03 PERCENT ON BASE
06/01/19 - 05/31/20	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.8716 CENTS/KWH
07/01/19 - 12/31/19	RESID. PBF SURCHARGE ADJUSTMENT	0.4775 CENTS/KWH
07/01/19 - 12/31/19	GREEN INFRASTRUCTURE FEE	1.17 DOLLARS/MONTH
01/01/20 - 06/30/20	RESID. PBF SURCHARGE ADJUSTMENT	0.7437 CENTS/KWH
01/01/20 - 06/30/20	GREEN INFRASTRUCTURE FEE	1.2500 DOLLARS/MONTH
04/01/20 - 04/30/20	SOLARSAVER ADJUSTMENT	-0.0592 CENTS/KWH
05/01/20 - 03/31/21	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/20 - 05/31/21	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.3383 CENTS/KWH
07/01/20 - 06/30/21	RESID. PBF SURCHARGE ADJUSTMENT	0.5882 CENTS/KWH
07/01/20 - 12/31/20	GREEN INFRASTRUCTURE FEE	1.19 DOLLARS/MONTH
01/01/21 - 06/30/21	GREEN INFRASTRUCTURE FEE	1.25 DOLLARS/MONTH
04/01/21 - 04/30/21	SOLARSAVER ADJUSTMENT	-0.0445 CENTS/KWH
<b>05/01/21</b>	<b>SOLARSAVER ADJUSTMENT</b>	<b>0.0000 CENTS/KWH</b>
<b>06/01/21</b>	<b>REVENUE BALANCING ACCOUNT RATE ADJUSTMENT</b>	<b>1.0242 CENTS/KWH</b>
<b>07/01/21</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.19 DOLLARS/MONTH</b>
<b>07/01/21</b>	<b>RESID. PBF SURCHARGE ADJUSTMENT</b>	<b>0.6478 CENTS/KWH</b>

~ Surcharges currently in effect are in bold.

~ Base charges include customer charge, demand charge, energy charge, power factor adjustment, voltage discount and minimum charge.