

Brian Dirksmeier
Property and Facility Specialist

Power quality improvement and energy efficiency at YMCA, Idaho

Energy Efficiency and CO2 Reduction is very important to our Organization

As soon as the Board of Directors heard about the MPTS they initiated a due diligence process.

MPTS, maximum power transfer solutions, are next generation power quality products that **decrease the Electrical Demand, Total Electrical Power requirement or Generation(KVA) and the Carbon foot print without** replacing/retrofitting inefficient electrical and mechanical equipment.

It makes the electrical networks more efficient

Features of MPTS

- Decrease the Max current in your network
- Decrease in KVA electrical Demand
- Decrease in peak KW and electrical consumption
- Decrease in KVAR- reactive power
- Decrease in harmonics
  - THD that is damaging your electrical, electronic, computer, lighting and mechanical equipment.
- Provide stable power to the connected loads
- Increase safety and reliability of the electrical network
  - Avoids overload conditions and hot spots in panels and equipment -a function of decrease in I^2R losses, KVAr, and harmonics

Benefits of MPTS

- **Decrease** Current and KVA significantly
- Maintains stability of voltage for connected equipment
- Protects investment in expensive electrical and mechanical equipment
- **Reduce** service, repair, replacement, and maintenance costs
- **Reduce** total cost of operating mechanical and electrical equipment
- **Save** money on utility bills based on tariffs and billing practices

Minimum Values Demand Reduction Kilowatts of Power reduced	Coal Burned in Coal Power Plants in Pounds	Gallons of gasoline consumed by America	Tree seedlings that have to be grown for 10 years
MPTS – 100/480V/3P 10 KVA	39,106 Pounds 	4097 Gallons 	933 Seedlings 
MPTS – 225/480V/3P 20 KVA	78,213 Pounds	8,194 Gallons	1,867 Seedlings
MPTS – 450/480V/3P 40 KVA	156,426 Pounds	16,388 Gallons	3,734 Seedlings
MPTS – 600/480V/3P 60 KVA	234,639 Pounds	24,582 Gallons	5,601 Seedlings

MPTS decreases demand for power generation resulting CO2 reduction

Minimum amounts of Power Generation and Carbon Emission Reduction with MPTS

Power quality improvement and energy efficiency at YMCA, Idaho

After Due diligence the YMCA purchased and installed 2 MPTS Devices
One MPTS on the Main Electrical Panel and one MPTS on the M2 Electrical Sub Panel(RTUs)

LOAD SUMMARY:	Main Elec Panel MS1	
480Y/277	2000 AMP BUS	
LOAD	KVA	AMPS
L1B	142	168
PMCC	208	*250
SPDP	250	301
L2	139	168
M1	20	25
M2	244	294
C1A	75	*90
ELEVATOR	54	65
RTU 3-02	93	112
RTU 3-03	168	202
RTU 2-06	84	101
TOTAL	1477	1777
*Future est load		

Building consists of different equipment

Lighting	LED Drivers- Ballasts
Pumps	VFDs
Motors	Fans
Air Conditioners	RTUs
VAVs	Boilers
Office Equipment	Computers
Monitors	Other equipment

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Power quality improvement and energy efficiency at YMCA, Idaho

Performance and Verification of the MPTS Device

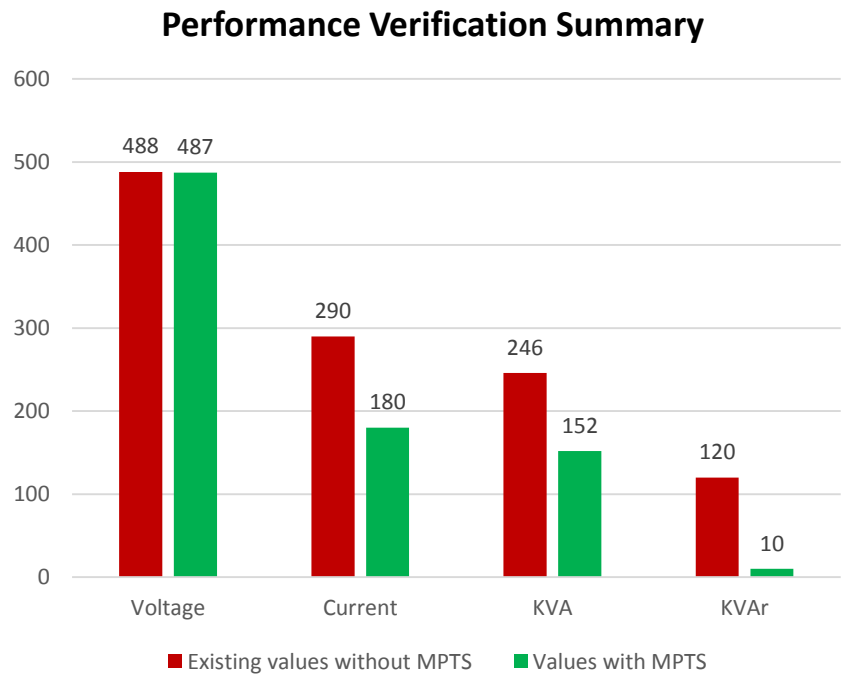


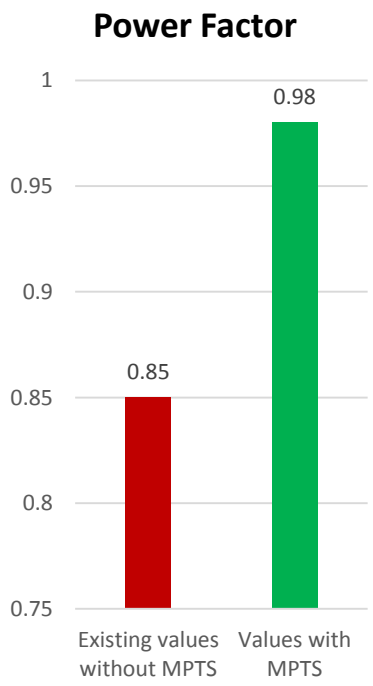
Power quality improvement and energy efficiency at YMCA, Idaho

Performance and Verification of the MPTS Device

Average Values

Item	Voltage	Current	KVA	KVAr	Power Factor
Existing values without MPTS	488V/282V	290	246	120	0.85
Values with MPTS	487V/281V	180	152	10	0.98



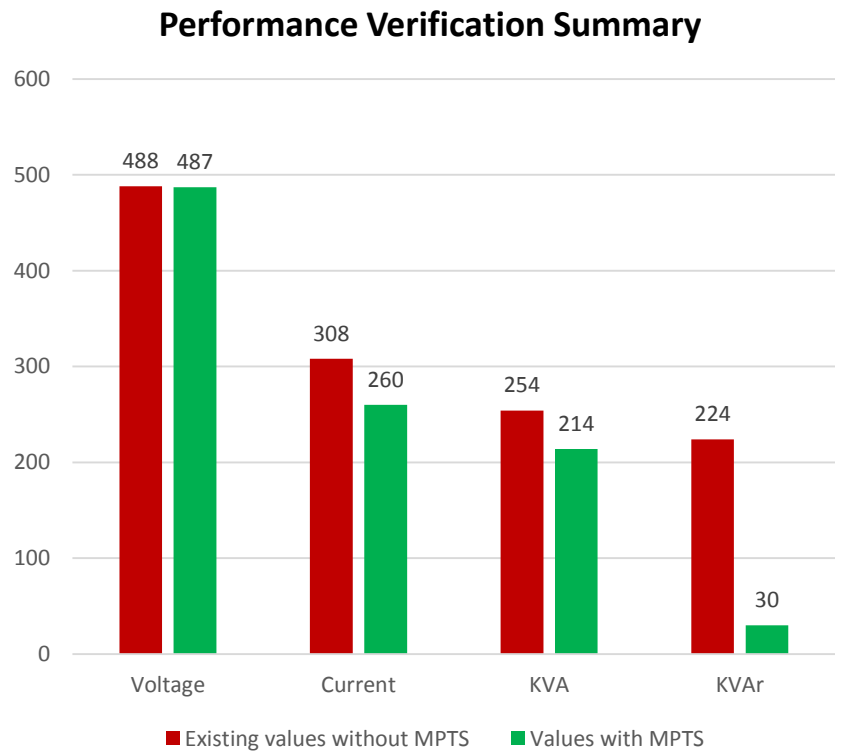


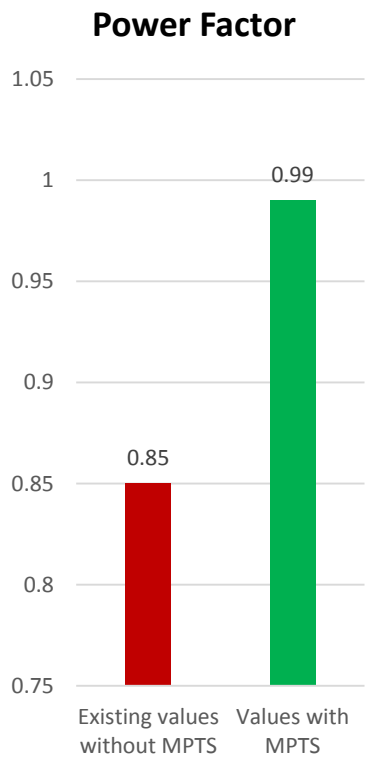
Power quality improvement and energy efficiency at YMCA, Idaho

Performance and Verification of the MPTS Device

Maximum Values

Item	Voltage	Current	KVA	KVAr	Power Factor
Existing values without MPTS	488V/282V	308	254	224	0.85
Values with MPTS	487V/281V	260	214	30	0.99





Power quality improvement and energy efficiency at YMCA, Idaho

Performance and Verification Process of the MPTS Device

Main Electrical Panel	April 2017				August 2017		
Cool Weather - April 2017	Min	Average	Max		Min	Average	Max
Voltage							
Line 1	280	281	282		279	281	282
Line 2	282	283	284		278	281	284
Line 3	283	283	283		281	282	283
Average	**282**	**282**	**283**		**279**	**281**	**283**
Current							
Line 1	285	289	298		110	181	252
Line 2	294	298	308		108	183	260
Line 3	285	284	291		107	175	244
Average	**288**	**290**	**299**		**108**	**180**	**252**
Power Factor							
Line 1	0.87	0.88	0.89		0.97	0.98	0.99
Line 2	0.81	0.84	0.85		0.97	0.99	0.99
Line 3	0.85	0.84	0.81		0.97	0.98	0.99
Average	**0.84**	**0.85**	**0.85**		**0.97**	**0.98**	**0.99**
KVAr August							
Line 1	14	37	72		0	3	10
Line 2	10	42	77		0	4	10
Line 3	12	41	76		0	3	10
Total	36	120	224		**0**	**10**	**30**

KVA- calculated							
Line 1	80	81	84		31	51	71
Line 2	83	84	87		30	51	74
Line 3	81	80	82		30	49	69
Average	**243**	**246**	**254**		**91**	**152**	**214**

Power quality improvement and energy efficiency at YMCA, Idaho

Performance and Verification Process of the MPTS Device

WOODRIVER YMCA	Pre-install			Pre-install			Pre-install		
Cool weather - HVAC off	Main Electrical Panel			M-1 Panel			M-2 Panel		
Main Electrical Panel		Apr-17			Apr-17			Apr-17	
Cool Weather	Min	Average	Max	Min	Average	Max	Min	Average	Max
Voltage P-N	282.05	282.33	282.59	280.29	280.72	280.97	282.46	282.98	283.23
Voltage P-P	485.99	486.5	486.9	482.00	492.00	484.00	486.97	487.90	488.39
Voltage THD %	1.87	2.11	2.32	1.96	19.59	19.84	2.11	2.23	2.31
Current									
Line 1	285	289	298	78	88	89	81	82	83
Line 2	294	298	308	74	78	82	81	82	83
Line 3	285	284	291	69	74	77	84	86	87
Peak Current	430	448	460						
Power Factor									
Line 1	0.87	0.88	0.89	0.87	0.86	0.85	0.74	0.73	0.71
Line 2	0.81	0.84	0.85	0.81	0.79	0.77	0.76	0.75	0.79
Line 3	0.85	0.84	0.81	0.90	0.88	0.82	0.74	0.76	0.77
KVA									
Line 1	60.5	62.8	69.4	22.0	24.7	25.1	20.8	21.7	22.5
Line 2	62.2	66	72.8	20.5	21.7	22.8	109.3	109.9	110.5
Line 3	58.2	61.5	68.6	19.3	20.8	21.5	21.3	21.8	22.9
KVAr									
Line 1	27.6	28.1	32.8	12.9	12.2	10.9	14.9	14.6	14.4
Line 2	32.6	35.6	40.5	13.5	13.0	12.5	675.0	681.0	687.0
Line 3	38.4	32.6	30.2	10.6	9.0	8.1	14.8	14.6	14.4
Current THD									
Line 1	12.51	13.1	13.66	16.5	16.8	16.9	15.9	30.1	30.7
Line 2	11.88	12.45	12.94	17.4	17.6	17.8	14.6	29.0	30.8
Line 3	13.05	13.6	14.23	19.3	19.6	19.8	14.4	29.0	30.8

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Performance and Verification Process of the MPTS Device

WOODRIVER YMCA	Pre-install Without MPTS			Post Install With MPTS												
Cool weather - HVAC off	Main Electrical Panel			Main Electrical Panel												
Main Electrical Panel		April 2017		August 2017												
Cool Weather - April 2017	Min	Average	Max	29-Aug	28-Aug	25-Aug	24-Aug	22-Aug	21-Aug	17-Aug	17-Aug	16-Aug	16-Aug	15-Aug	14-Aug	14-Aug	13-Aug
Current																	
Line 1	285	289	298	175	198	217	252	218	148	206	154	184	110	175	219	177	167
Line 2	294	298	308	171	193	221	260	219	155	215	160	194	108	175	219	183	167
Line 3	285	284	291	161	181	204	244	209	147	203	152	176	107	175	219	176	162
Peak Current	430	448	460														
Power Factor																	
Line 1	0.87	0.88	0.89	0.978	0.988	0.988	0.992	0.99	0.978	0.989	0.979	0.985	0.966	0.988	0.988	0.982	0.974
Line 2	0.81	0.84	0.85	0.983	0.982	0.988	0.992	0.99	0.978	0.989	0.982	0.986	0.969	0.988	0.988	0.983	0.993
Line 3	0.85	0.84	0.81	0.980	0.982	0.985	0.992	0.99	0.978	0.989	0.979	0.98	0.969	0.988	0.988	0.983	0.967
KVAr August																	
Line 1	14	37	72	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Line 2	10	42	77	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Line 3	12	41	76	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

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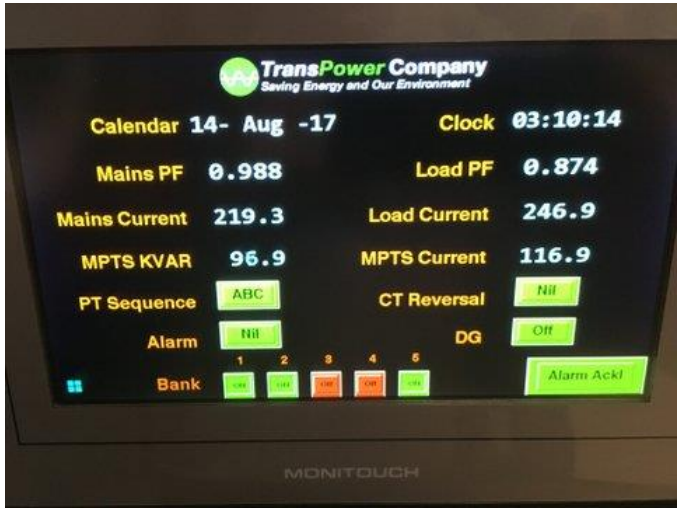
Performance and Verification of the MPTS Device – Main Electrical Panel



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Performance and Verification of the MPTS Device – Main Electrical Panel









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Performance and Verification of the MPTS Device









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Performance and Verification of the MPTS Device – Main Electrical Panel









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Performance and Verification of the MPTS Device – Main Electrical Panel





Power quality improvement and energy efficiency at YMCA, Idaho

Performance and Verification of the MPTS Device – Main Electrical Panel



MPTS was installed in August 2017
Billed KW and KWH compared to 2015 and 2016

Idaho Power Energy Usage

Account: 2.2E+09 Service Agree 3E+07 Meter Numb 36341297 - 101 SADDLE RD KETCHUM ID 83340-0000

Meter Number	Billing Month/ Year	Read Date	Billing Days	Billed Amount	Billed kWh	Billed kW	kWh Charge	kW Charge	Basic Load Capacity	BLC Charge	Other Charges
36341297	Sep-17	9/5/2017	33	7600.17	98240	259	4851.24	1394.46	255	242.05	1112.42
36341297	Aug-17	8/3/2017	29	6876.9	84320	250	4239.51	1398.4	272	259.56	979.43
36341297	Jul-17	7/5/2017	30	6505.21	79200	236	3988.98	1313.28	291	279.13	923.82
36341297	Jun-17	6/5/2017	32	6487.57	93280	234	4263.04	997.78	291	276.84	949.91
36341297	May-17	5/4/2017	30	6339.46	93760	230	4207.16	924	291	276.42	931.88
36341297	Apr-17	4/4/2017	29	6160.88	90240	229	4052.98	919.6	291	276.42	911.88
36341297	Mar-17	3/6/2017	32	7083.83	107440	232	4806.39	932.8	291	276.42	1068.22
36341297	Feb-17	2/2/2017	30	5986.98	86640	232	3895.29	932.8	291	276.42	882.47
36341297	Jan-17	1/3/2017	33	6584.56	98240	229	4403.4	919.6	291	276.42	985.14
36341297	Dec-16	12/1/2016	30	5952.26	86160	230	3874.26	924	291	276.42	877.58
36341297	Nov-16	11/1/2016	29	5176.63	72880	214	3292.56	853.6	291	276.42	754.05
36341297	Oct-16	10/3/2016	31	6317.16	92640	234	4158.1	941.6	295	280.5	936.96
36341297	Sep-16	9/2/2016	30	7970.05	101600	293	4986.48	1608.88	295	280.5	1094.19
36341297	Aug-16	8/3/2016	33	8294.18	106560	289	5257.1	1614	295	280.5	1142.58
36341297	Jul-16	7/1/2016	29	7265.7	90560	272	4484.57	1512	296	281.52	987.61
36341297	Jun-16	6/2/2016	30	5559.2	80880	211	3667.92	860.77	310	295.8	734.71
36341297	May-16	5/3/2016	28	5477.52	77440	243	3492.3	981.2	310	295.8	708.22
36341297	Apr-16	4/5/2016	33	6817.25	103920	238	4652.2	959.2	310	295.8	910.05
36341297	Mar-16	3/3/2016	29	6164.16	91600	234	4112.55	941.6	310	295.8	814.21
36341297	Feb-16	2/3/2016	28	6018.83	88320	239	3968.87	963.6	310	295.8	790.56
36341297	Jan-16	1/6/2016	33	6738.42	101200	251	4533.06	1016.4	310	295.8	893.16
36341297	Dec-15	12/4/2015	30	5818.18	85520	227	3846.23	910.8	310	295.8	765.35
36341297	Nov-15	11/4/2015	30	6439.57	91280	296	4098.53	1214.4	310	295.8	830.84
36341297	Oct-15	10/5/2015	32	6597.92	94560	294	4242.21	1205.6	309	294.78	855.33
36341297	Sep-15	9/3/2015	30	8312.6	111440	283	5441.61	1535.92	309	294.78	1040.29

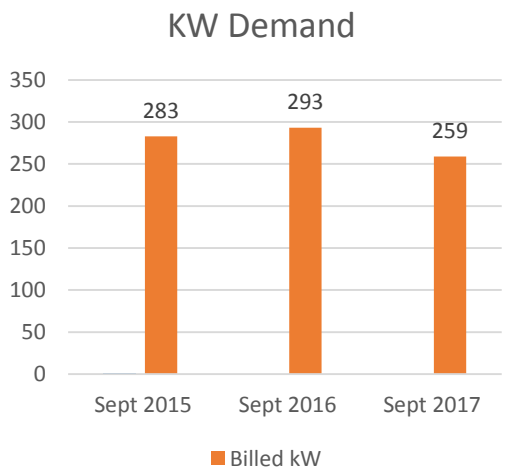
With and Without MPTS

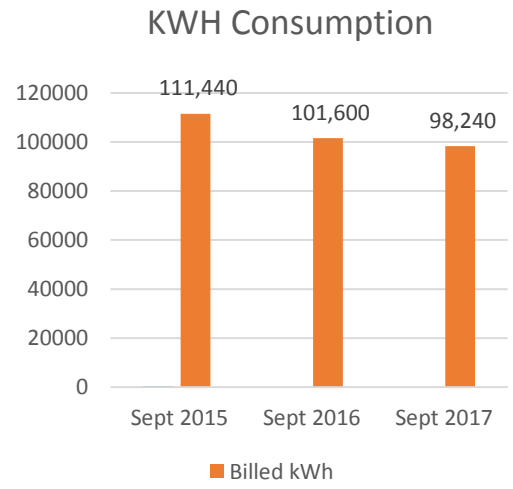
MPTS was installed in August 2017
Billed KW and KWH compared to 2015 and 2016

	Read Date	Billed kW
Without MPTS	Sept 2015	283
Without MPTS	Sept 2016	293
With MPTS	Sept 2017	259

Read Date	Billed KWH
Sept 2015	111,440
Sept 2016	101,600
Sept 2017	98,240

Read Date	Billing Days
Sept 2015	30
Sept 2016	30
Sept 2017	33





August – Year over Year comparison

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PO BOX 70, Boise, ID 83707.
Or call (208) **388-2323** (Treasure Valley)
or **(800) 488-6151.** Se habla español.
For faster service please call
Tuesday - Friday, 7:30 a.m. to 6:30 p.m.

Customer Name: WOOD RIVER COMM YMCA
Account Number: **2206572584**
Billing Date: 09/07/2017
Print Date: 09/07/2017

Service Agreement No: 0032103074 **Next Read Date:** 10/04/2017
Service Location: 101 SADDLE RD / KETCHUM,ID

Meter Number	Service Period From	To	Number of Days	Reading Type	Meter Readings Previous	Current	Meter Constant	kWh Used
36341297	08/04/17	09/05/17	33	Regular	45238	46466	80	98240

Billing kW	BLC
259	255

Large General Service Schedule 09S	Service Charge	$16.00
	Summer Demand Charge (0-20) 20 @ $0.00 per kW, 28 days	$0.00
	Summer Demand Charge (Over 20) 239 @ $6.08 per kW, 28 days	$1,232.95
	Non-Summer Demand Charge (0-20) 20 @ $0.00 per kW, 5 days	$0.00
	Non-Summer Demand Charge (Over 20) 239 @ $4.46 per kW, 5 days	$161.51
	Basic Charge (0-20) 20 @ $0.00 per kW of BLC, 28 days	$0.00
	Basic Charge (Over 20) 235 @ $1.03 per kW of BLC, 28 days	$205.38
	Basic Charge (0-20) 20 @ $0.00 per kW of BLC, 5 days	$0.00
	Basic Charge (Over 20) 235 @ $1.03 per kW of BLC, 5 days	$36.67
	Summer Energy Charge 1,697 kWh @ $0.105716 per kWh, 28 days	$179.40
	Summer Energy Charge 81,658 kWh @ $0.048932 per kWh, 28 days	$3,995.69
	Non-Summer Energy Charge 303 kWh @ $0.095161 per kWh, 5 days	$28.83
	Non-Summer Energy Charge 14,582 kWh @ $0.044392 per kWh, 5 days	$647.32
	Annual Adjustment Mechanism	$638.27
	Franchise Fee 3.00%	$214.26
	Energy Efficiency Services	$243.89
	Current Charges - Electric Service	**$7,600.17**

August 2017

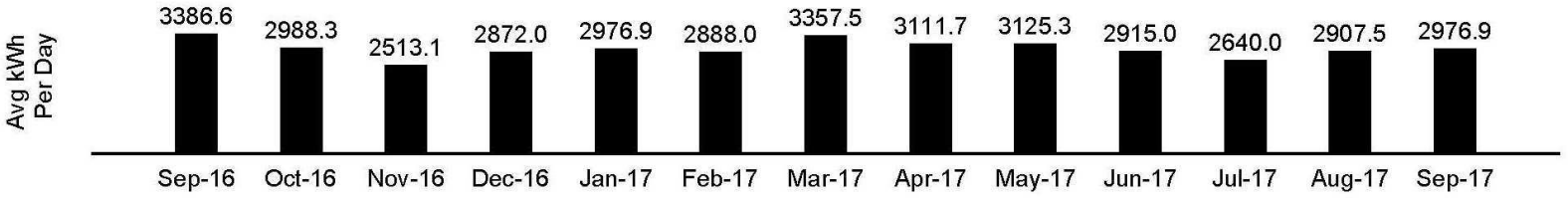
CR = Credit kWh = Kilowatt-hour PCA = Power Cost Adjustment kW = Kilowatt BLC = Basic Load Capacity G = Generation

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Billing Date: 09/07/2017
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Your Electric Use Pattern



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Billing kW	BLC
259	255

Large General Service Schedule 09S

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Summer Demand Charge (Over 20) 239 @ $6.08 per kW, 28 days	$1,232.95
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Non-Summer Energy Charge 14,582 kWh @ $0.044392 per kWh, 5 days	$647.32
Annual Adjustment Mechanism	$638.27
Franchise Fee 3.00%	$214.26
Energy Efficiency Services	$243.89
Current Charges - Electric Service	**$7,600.17**

Billed Period
August 2017

CR = Credit kWh = Kilowatt-hour PCA = Power Cost Adjustment kW = Kilowatt BLC = Basic Load Capacity G = Generation

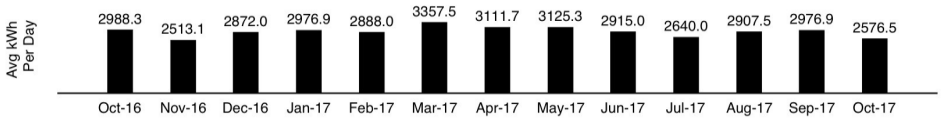
Billed Period
September 2017

Annual Adjustment Mechanism	$485.46
Franchise Fee 3.00%	$155.63
Energy Efficiency Services	$176.34
Current Charges - Electric Service	**$5,519.79**

With MPTS

CR = Credit kWh = Kilowatt-hour PCA = Power Cost Adjustment kW = Kilowatt BLC = Basic Load Capacity G = Generation

Your Electric Use Pattern



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Customer Name: WOOD RIVER COMM YMCA
Account Number: **2206572584**
Billing Date: 11/06/2017
Print Date: 11/06/2017

Due Date	Please Pay
11/21/2017	**$5,427.14**

Account Activity

Previous Balance	$5,519.79
Payments - Thank You	$5,519.79 C
Balance Forward	$0.00
Current Charges	$5,427.14
Account Balance	**$5,427.14**

Billed Period
October 2017

With MPTS

Please Note: Any unpaid balances may be assessed a monthly charge of 1 percent. Any credit on the account will be bills or can be refunded upon customer request. Returned payments may be resubmitted electronically. Items remaining unpaid will be charged a $20 fee.

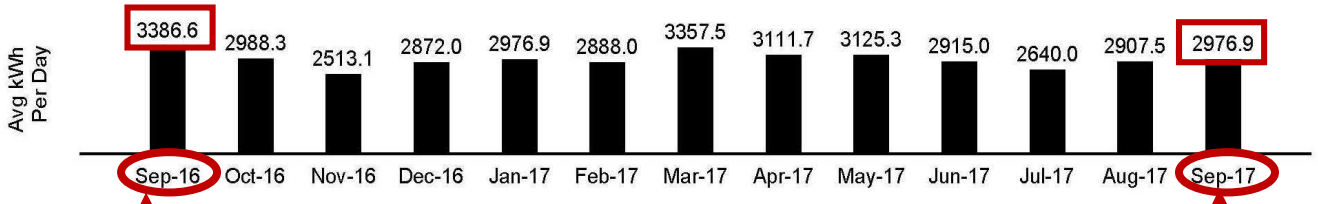
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idahopower.com

Questions? Contact us at:
PO BOX 70, Boise, ID 83707.
Or call (208) **388-2323** (Treasure Valley)
or **(800) 488-6151.** Se habla español.
For faster service please call
Tuesday - Friday, 7:30 a.m. to 6:30 p.m.

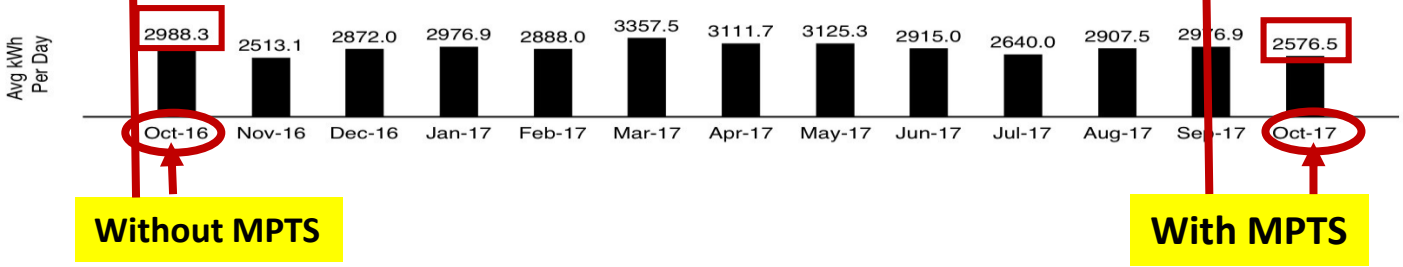
Customer Name: WOOD RIVER COMM YMCA
Account Number: **2206572584**
Billing Date: 09/07/2017
Print Date: 09/07/2017

Your Electric Use Pattern



CR = Credit kWh = Kilowatt-hour PCA = Power Cost Adjustment kW = Kilowatt BLC = Basic Load Capacity G = Generation

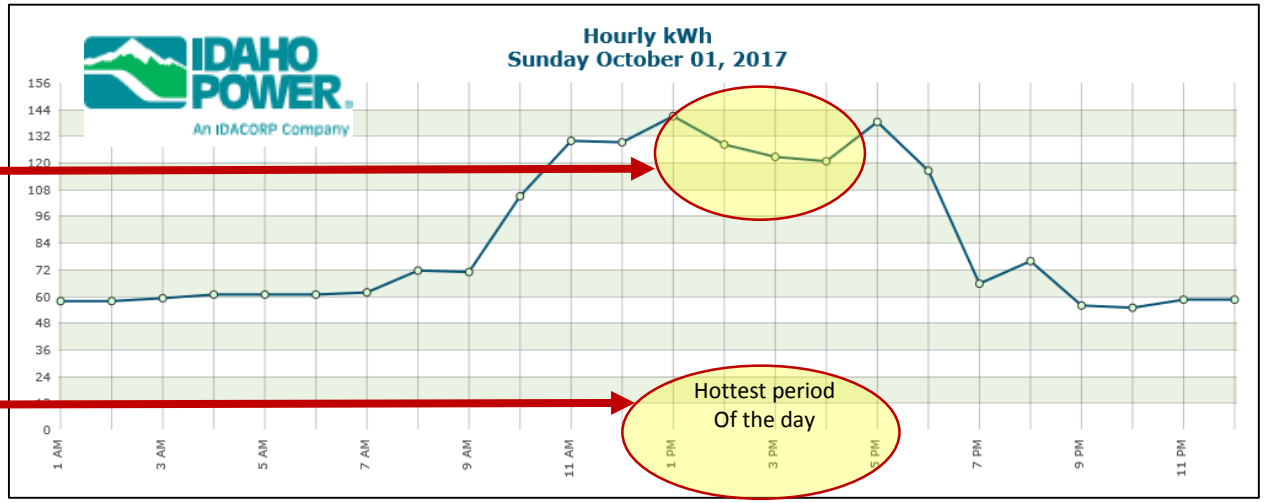
Your Electric Use Pattern

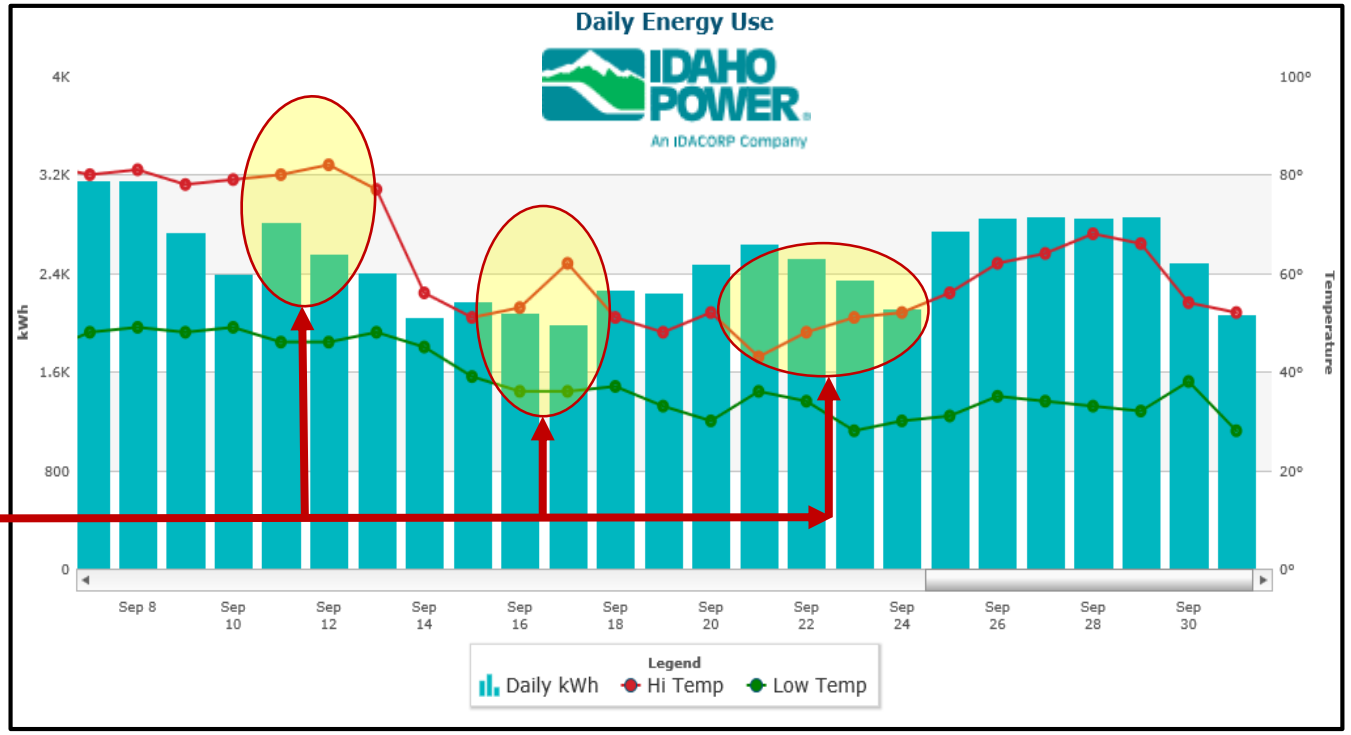


Without MPTS

With MPTS

Temperature is going up and consumption is decreasing - MPTS is kicking in as the HVAC is coming ON





Pwr Fac Adj (or Power Factor Adjustment)

When a customer's power factor is less than 90 percent (0.90), as measured under actual load conditions, Idaho Power may adjust the kW demanded that month to reflect the extra volts-amperes generated in order to meet that demand. The adjusted demand is figured by multiplying the measured kW (as shown on the meter) by 90 percent, and dividing by the customer's unique power factor.

Time of Use (TOU) Rates

A rate system for customers, designed to reflect the higher energy costs during the peak months of the year (see Seasonal Rates) and hours of the day.

Both the energy charge and the demand charge (see Rate Schedule) may vary by hour and month.

For a more comprehensive definition of time-of-use billing, contact us.

Watt

The practical unit of power defined as the rate at which energy is delivered or consumed. The basic unit for measuring the power used by an electrical device.

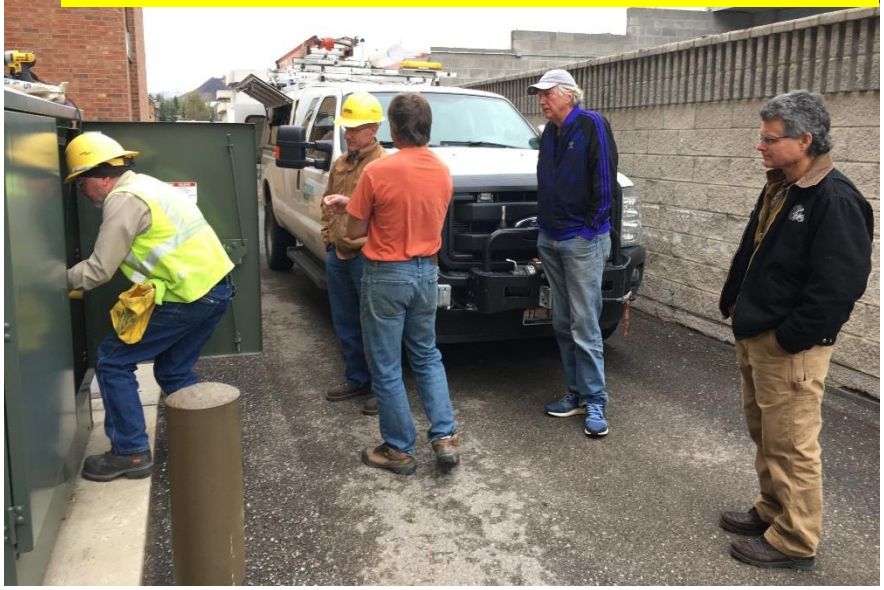


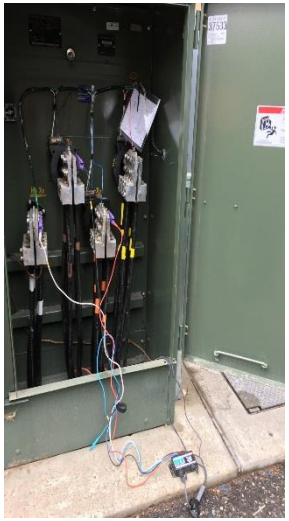






Utility Validation of MPTS performance.







Utility Validation of MPTS performance.

Utility measurements at the Transformer





With and Without MPTS

	Channel 1	Channel 2	Channel 3
RMS Voltage	279.90 V	276.80 V	278.60 V
RMS Current	241.00 A	229.00 A	238.00 A
Real Power	58.2 kW	52.8 kW	57.4 kW
Reactive Power	-32.2 kVAR	-33.4 kVAR	-31.6 kVAR
Apparent Power	67.4 kVA	63.2 kVA	66.4 kVA
Phase Angle	-29.00 °	-32.00 °	-28.00 °
Power Factor	0.86	0.83	0.86
Displacement Power Factor	0.87	0.84	0.87

Current Range: 1000 Amps Hookup: Wye

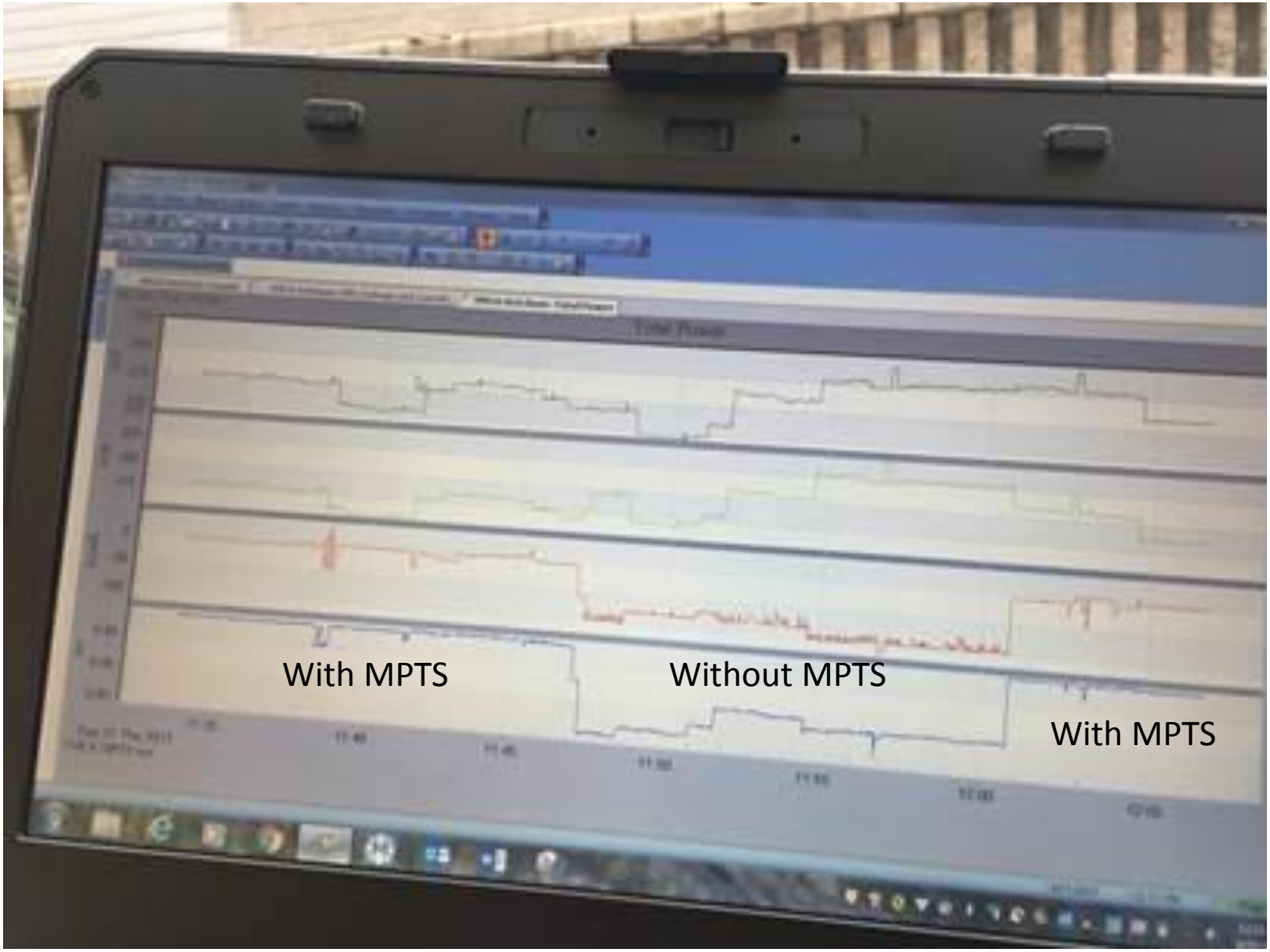
Without MPTS

	Channel 1	Channel 2	Channel 3
RMS Voltage	281.60 V	278.50 V	280.30 V
RMS Current	229.00 A	206.00 A	198.00 A
Real Power	63.4 kW	56.4 kW	54.6 kW
Reactive Power	2 kVAR	-7.6 kVAR	0.8 kVAR
Apparent Power	64.4 kVA	57.2 kVA	55.4 kVA
Phase Angle	2.00 °	-7.00 °	1.00 °
Power Factor	0.98	0.98	0.98
Displacement Power Factor	1.00	0.99	1.00

Current Range: 1000 Amps Hookup: Wye

With MPTS

Graph from Idaho Power Computer – Data Testing with and without MPTS



Idaho Power Energy Usage

Account: 2206572584 Service Agreement: 32103074 Meter Number: 36341297 - 101 SADDLE RD KETCHUM ID 83340-0000

Meter Number	Billing Month/Year	Read Date	Billing Days	Billed Amount	Billed kWh	Billed kW	kWh Charge	kW Charge	Basic Load Capacity	BLC Charge	Other Charges	
36341297	Dec-17	12/4/2017	32	5928.12	85440	214	3894.39	865.24	255	242.05	926.44	with MPTS
36341297	Nov-17	11/2/2017	29	5427.14	75120	226	3436.26	918.76	255	242.05	830.07	with MPTS
36341297	Oct-17	10/4/2017	29	5519.79	74720	250	3418.51	1025.8	255	242.05	833.43	With MPTS
36341297	Sep-17	9/5/2017	33	7600.17	98240	259	4851.24	1394.46	255	242.05	1112.42	with MPTS
36341297	Aug-17	8/3/2017	29	6876.9	84320	250	4239.51	1398.4	272	259.56	979.43	Partial Month
36341297	Jul-17	7/5/2017	30	6505.21	79200	236	3988.98	1313.28	291	279.13	923.82	
36341297	Jun-17	6/5/2017	32	6487.57	93280	234	4263.04	997.78	291	276.84	949.91	
36341297	May-17	5/4/2017	30	6339.46	93760	230	4207.16	924	291	276.42	931.88	
36341297	Apr-17	4/4/2017	29	6160.88	90240	229	4052.98	919.6	291	276.42	911.88	
36341297	Mar-17	3/6/2017	32	7083.83	107440	232	4806.39	932.8	291	276.42	1068.22	
36341297	Feb-17	2/2/2017	30	5986.98	86640	232	3895.29	932.8	291	276.42	882.47	
36341297	Jan-17	1/3/2017	33	6584.56	98240	229	4403.4	919.6	291	276.42	985.14	

Usage History Column Heading Definitions

Billing Month/Year: Month and year of bill.

Meter Read Date: Date your meter was read.

Billing Days: Number of days between meter readings and/or number of days the bill covers.

Billed Amount: Total Bill charges for the current month.

Billed kWh: Billed kWh is the amount of energy used during the current month based on the meter reading.

Billed kW: The average kW supplied during the 15-consecutive-minute period of maximum use during the Billing Period adjusted for Power Factor.

kWh Charge: The dollar amount calculated by multiplying the kWh of energy used by the monthly charge for energy.

kW Charge: The dollar amount calculated by multiplying peak demand (kW) used by the kW charge.

Basic Load Capacity (BLC): The Basic Load Capacity is the average of the two greatest non-zero monthly Billing Demands established during the 12-month period which includes and ends with the current Billing Period. It is recalculated each month. The basic load capacity applies to large commercial and industrial customers.

BLC (Basic Load Capacity) Charge: The dollar amount calculated by multiplying the BLC kW by the monthly charge.

Other Charges: Includes service charge franchise fee energy efficiency services and miscellaneous charges. These miscellaneous charges may include but are not limited to special metering service connection field visits return check fee or late payment charges. See Rate Schedules for more specific information. See our Bill Glossary for definitions.