

# Energy Data Center

## Advanced Real-Time Energy Analysis Tools

Omni-Pro Software, Inc

### CAPABILITIES

- Detailed Billing Information
- Multiple Meter Aggregation
- Coincidental Demand Data
- Kwh Consumption Details
- Peak Demand Details
- Power Factor Information
- Real Time Power Quality
- Historic Kwh Analysis
- Historic Demand Analysis
- Key Account Monitoring
- Programmable Alerts
- Track Energy Usage During Production Runs
- Generation Production Info

### DISPLAYS

- Meter Summary
- Power Quality Summary
- Meter Detail Page
- Interval Analysis Tool
- Calendar Analysis Tool
- Daily Analysis Tool
- Power Quality Analysis Tool
- Meter Diagnostic Flag Details

### INSTALLATION

- KV2C Electric Meter
- Internet Capable LAN connection with DHCP—CAT5 10 BaseT

### CUSTOMIZATION

- Flexible to meet your needs!

### ENERGY MANAGEMENT TOOLS

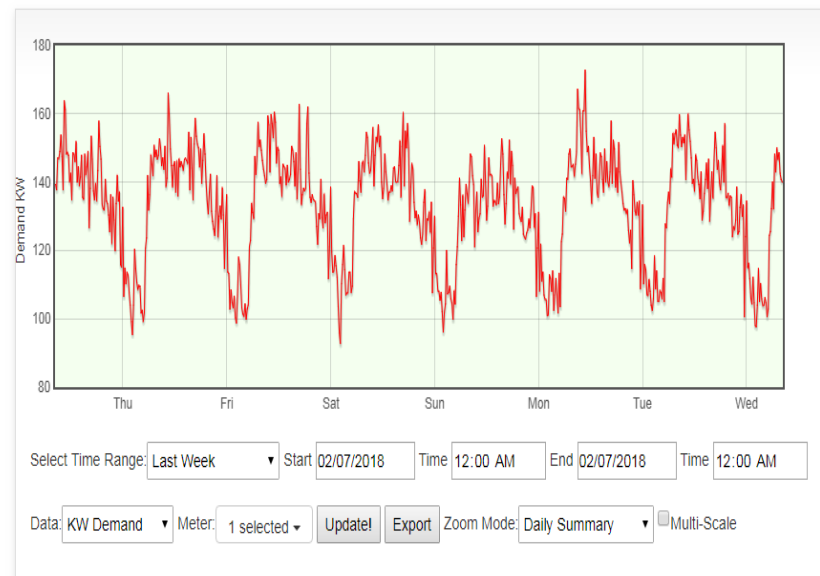
#### FOR UTILITIES AND CUSTOMERS

Omni-Pro Software's Energy Data Center provides both the electric utility and the customer vital real time information from the electric meter. We developed this powerful, inexpensive and convenient tool to allow validation of the energy conservation and load management efforts of both utilities and customers.

Energy Data Center was designed with the goal of improving relationships between utilities and their best customers. The information available allows utilities to easily access billing information as well as provides site information regarding voltage, phase loading, and power factor. Customers benefit by being able to validate conservation efforts that reduce energy consumption, demand, and improve power factor.

Every utility has customers who ask the question: What can I do about my peak demand and energy consumption? The answer is that you need to know what is happening in the facility at the time you are evaluating the operations that consume electricity. Energy Data Center provides this information!

■ Sunshine Foods



Meter Point	Total Usage	Max Demand	Max Demand DTG	Missing Intervals
Sunshine Foods	22381.39	172.67	Mon Feb 05 2018 10:45:00 GMT-0600 (Central Standard Time)	0

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1731 Airport Drive

Madison, SD 57042 605-270-2285 EMAIL: [omnipro@iw.net](mailto:omnipro@iw.net)

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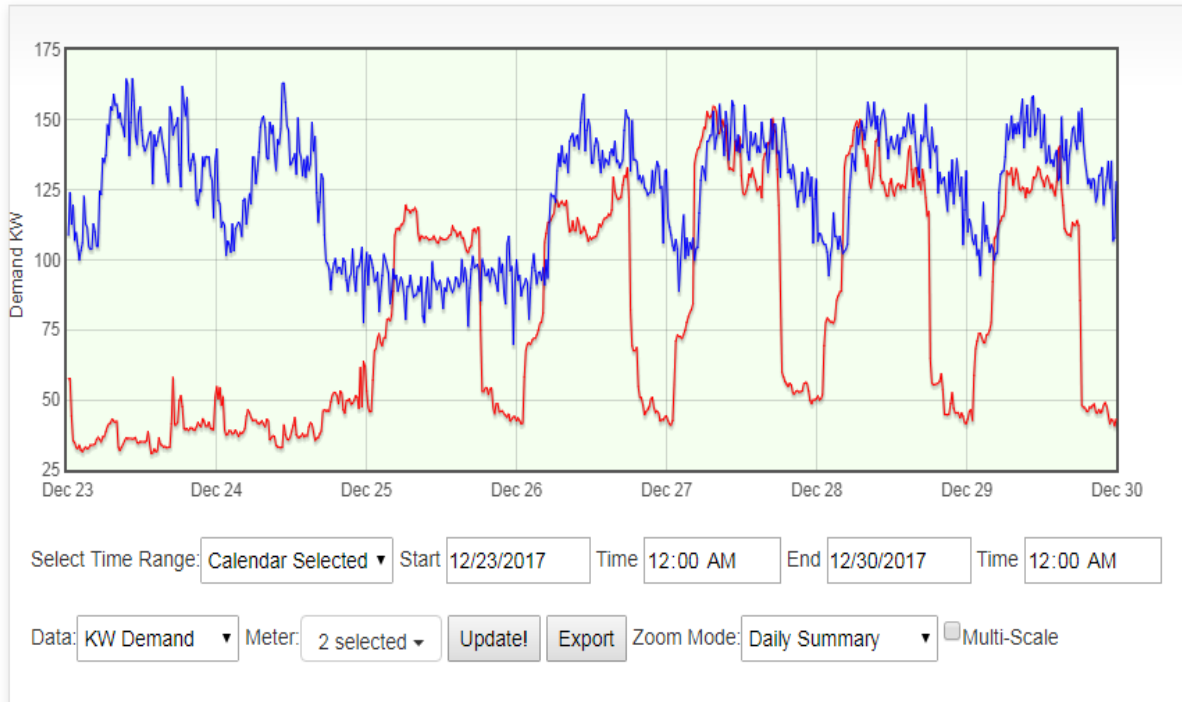
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### Graphing Multiple Items - Demand KW

■ Lake Crystal School ■ Sunshine Foods



Meter Point	Total Usage	Max Demand	Max Demand DTG	Missing Intervals
Lake Crystal School	13444.99	154.91	Wed Dec 27 2017 07:30:00 GMT-0600 (Central Standard Time)	0
Sunshine Foods	20895.21	164.86	Sat Dec 23 2017 10:30:00 GMT-0600 (Central Standard Time)	0

### **POWERFUL DATA GRAPHING ANALYSIS TOOL**

System metering intervals may be analyzed via web graphing package. Interval metering data from multiple meters is shown in the example above. Various data types can be plotted such as KW, KVAR, Power Factor, Voltage, Current, etc. Displayed time range data may be exported in CSV format for use in Excel Spreadsheets. Users may select start-end date-time ranges as well as view the current day, previous 24 hours, previous week, current month, and previous 30 days.

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#### Energy Data Center - Meter Analysis Calendar

Home Graphing

Sunshine Foods

Select Meter:  
Sunshine Foods

today << >>

December 2017

< > day month

Select Report Type:  
Kwh Usage - Demand

Total Kwh  
97026.61

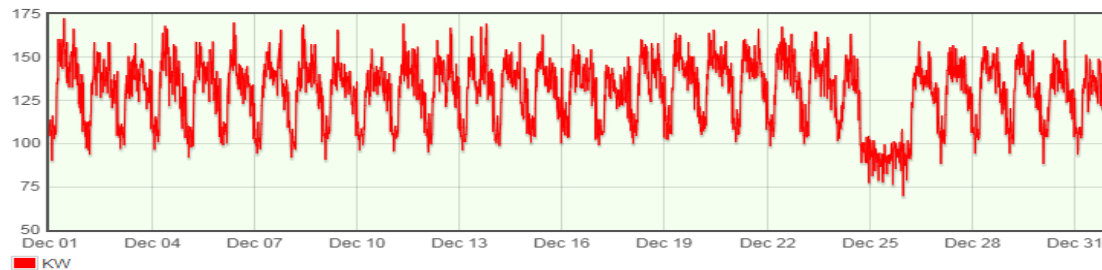
Max Demand  
172.62

Demand Date-Time  
12-01-2017 10:30

Load Factor  
0.76

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	1 KW: 172.62 Kwh: 3274.42 Max Time: 10:30	2 KW: 158.48 Kwh: 3147.92 Max Time: 07:45
3 KW: 158.24 Kwh: 3119.80 Max Time: 12:30	4 KW: 167.94 Kwh: 3198.30 Max Time: 09:30	5 KW: 158.94 Kwh: 3147.81 Max Time: 19:00	6 KW: 170.19 Kwh: 3133.11 Max Time: 09:45	7 KW: 165.63 Kwh: 3156.85 Max Time: 18:45	8 KW: 168.96 Kwh: 3147.65 Max Time: 10:30	9 KW: 165.73 Kwh: 3106.67 Max Time: 10:30
10 KW: 154.77 Kwh: 3083.98 Max Time: 10:30	11 KW: 169.25 Kwh: 3160.66 Max Time: 08:45	12 KW: 166.96 Kwh: 3166.25 Max Time: 17:45	13 KW: 169.31 Kwh: 3184.16 Max Time: 19:00	14 KW: 158.46 Kwh: 3134.65 Max Time: 18:30	15 KW: 163.09 Kwh: 3146.81 Max Time: 10:30	16 KW: 157.25 Kwh: 3209.88 Max Time: 08:00
17 KW: 150.22 Kwh: 3050.51 Max Time: 22:30	18 KW: 160.22 Kwh: 3254.71 Max Time: 07:30	19 KW: 164.22 Kwh: 3281.03 Max Time: 08:00	20 KW: 165.76 Kwh: 3318.28 Max Time: 10:30	21 KW: 166.24 Kwh: 3279.06 Max Time: 18:00	22 KW: 167.79 Kwh: 3300.82 Max Time: 10:30	23 KW: 164.86 Kwh: 3248.61 Max Time: 10:30
24 KW: 163.31 Kwh: 2900.56 Max Time: 10:45	25 KW: 108.30 Kwh: 2214.94 Max Time: 22:45	26 KW: 159.10 Kwh: 3043.28 Max Time: 10:45	27 KW: 157.02 Kwh: 3151.56 Max Time: 10:30	28 KW: 156.30 Kwh: 3175.57 Max Time: 08:15	29 KW: 158.56 Kwh: 3160.69 Max Time: 10:45	30 KW: 159.98 Kwh: 3092.06 Max Time: 17:00
31 KW: 151.18 Kwh: 3036.01 Max Time: 08:00	1	2	3	4	5	6

Selected Month KW



#### CALENDAR ORGANIZER

Metering data may be analyzed in amazing detail with our Calendar Organizer. This example shows demand and consumption for each day of the selected month. Users may view historic data from any past month, or simply click on a selected day to view graph and details of that date.

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#### Sunshine Foods Meter Details

www.energydatacenter.com By Omni-Pro Software, Inc.

Home Graphing Calendar Meter Summary Power Quality Daily Analysis Logout

Revenue Summary Power Quality Metering Diagnostics Alerting Load Management Meter Registers

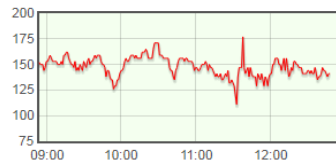
#### Current Month Revenue Data

Report Time	Instant	Five	Fifteen	Thirty	Meter Reading	Daily Energy	Daily High	Daily High Time	Monthly Energy	Monthly High	Monthly High Time
02/06/2018 12:48	120	141	140	142	48934.49	1679.90	159.97	02/06/18 10:30:00	17652.97	172.67	02/05/18 10:45:00

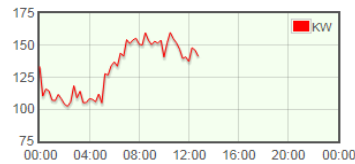
#### Previous Month Revenue Data

Monthly Kwh	High KW	High KW Time	Monthly KvarH	Min PF	Max PF	Avg PF
99366.45	171.63	01/04/18 10:45:00	40889.99	0.870	0.950	0.925

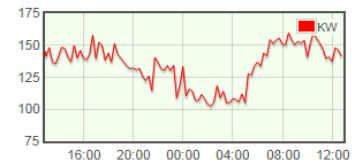
Previous 4 Hour KW



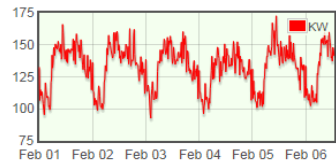
Current Day



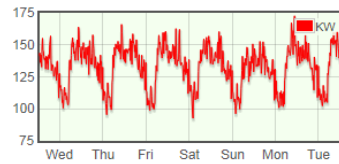
Previous 24 Hours



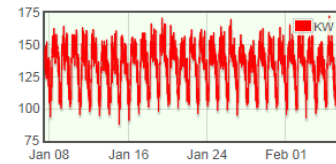
Current Month



Previous Week



Previous 30 Days



### METER DETAILS

The Meter Details page displays current real-time demand, billing consumption-demand, and trend information.

### EASY INSTALLATION

The C3IEthernet Gateway snaps into KV2C series electric meters and connects via CAT5 to internet enabled LAN with DHCP addressing capability. Wireless bridges may be used when wiring to meter cabinets is difficult. Meters require recording, time of use, and reactive soft switches installed. 3 Meter Recording channels should be configured as: 1.Kw 2.Kva 3.Kvar

### USER ACCESS

Information is accessed via web browser on PC or smart phones. Each account is provided a user login to view meters with appropriate permissions. Utility personnel, end-customers, and consulting engineers may all access the data provided by the system.

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