Energy Information Services Online from your Utility that can help identify Low/No Cost Actions to help your bottom line!

Online tools to manage electricity use

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What we will cover today

- •What is load data?
- Utility online service tools and how the information can be used
- *****2D PowerScape Tools & PowerFilter Tools
- Emailing Reports
- Review of National Grid's online tool



Online Energy Information Systems

- Tools for analyzing your electric load profile
- Provides "demand" and "energy usage" information
- A data base of historical kW for every 15 minute period (interval data)



What is interval data?

- It is NOT instantaneous demand.
- It is the number of kWh consumed over a period of time.
- These numbers can be converted to demand.
 - For example 100 kWh for 15 minutes is 100 kWh / .25 hrs or 400 kW.
- Interval data does not appear on your bill!



Would you drive your car without any gauges?





Typical Online EIS Your Energy Management Tool

Monitor your Energy usage and peak demands.

Identify usage patterns that can be adjusted for savings.

Ability to monitor your Power Factor.

Compare usage patterns in multiple facilities.

□Verify savings.

Monitor usage in "Off Hours".

Ability to set Alarms.

Watts per square foot bench marking tool.

Assist in budgeting. Specific time period analysis.

Provides crucial information to shop wisely for power suppliers.



Review your monthly load shape for any irregularities



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Monitor your Power Factor



Verify Savings from optimizing operation



This Data Center verified annual savings of \$40,000 by shutting off an HVAC unit!



Visual verifications are compelling – EMS installation saves \$25-30K annually



Optimize existing EMS



Optimizing an existing EMS saved a local mall \$75 – 100K per year!

A disciplined approach over time helps save!



Estimated annual savings \$760,000!

Estimated annual CO2 reduction 7,256,700 lbs.



Shutting off lights!

National Grid's Mary Renaud teams up with furniture retailer to lower their electric bills!





Email Reports – Monthly Example

Profile for Selected Accounts for the Month of January



Modem & Pulse Service





*Phone line should be supplied to within 1 foot of the meter.





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