



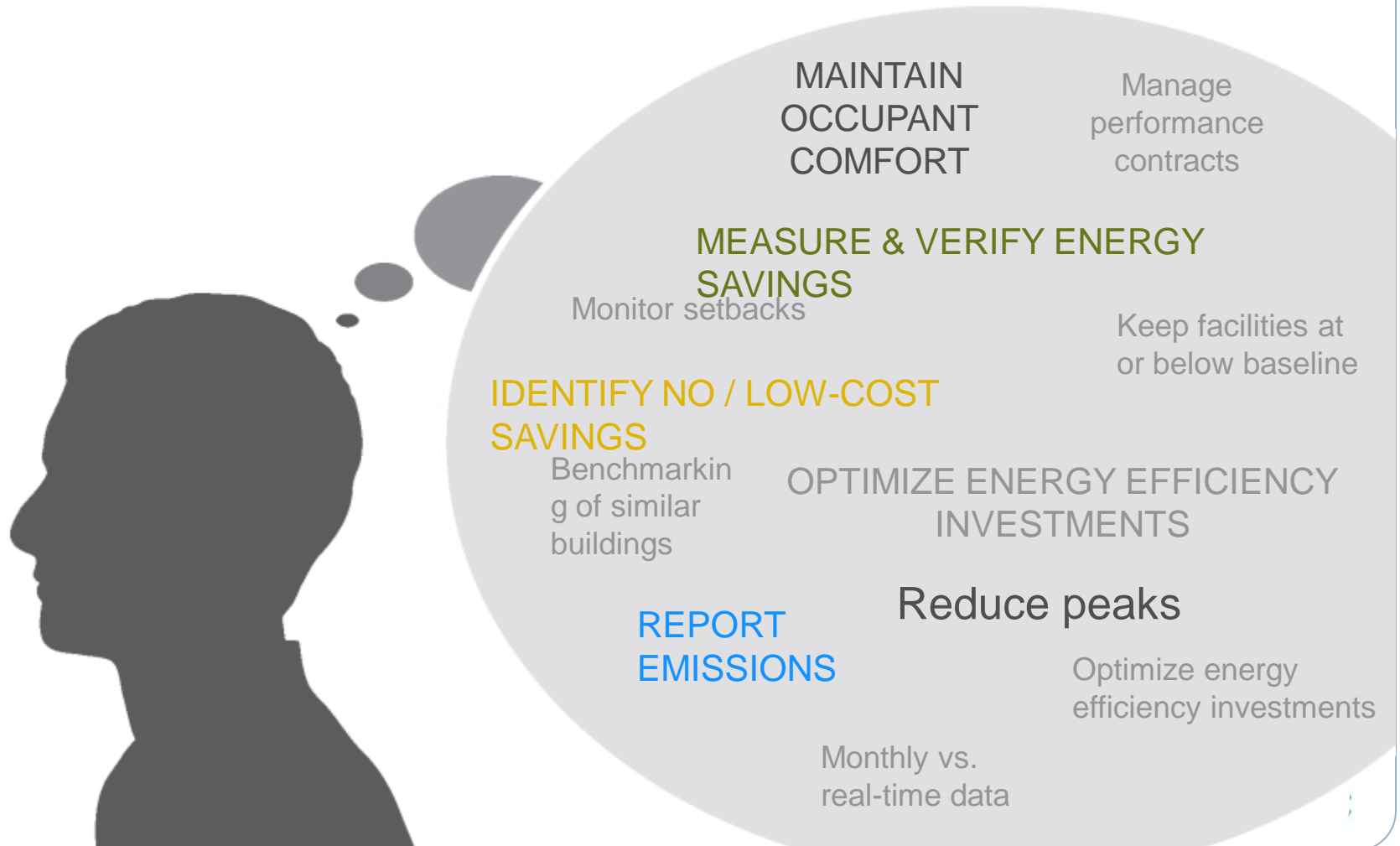
EfficiencySMART Insight: Data-Driven Energy Management

PLMA Fall Conference

November 16, 2011

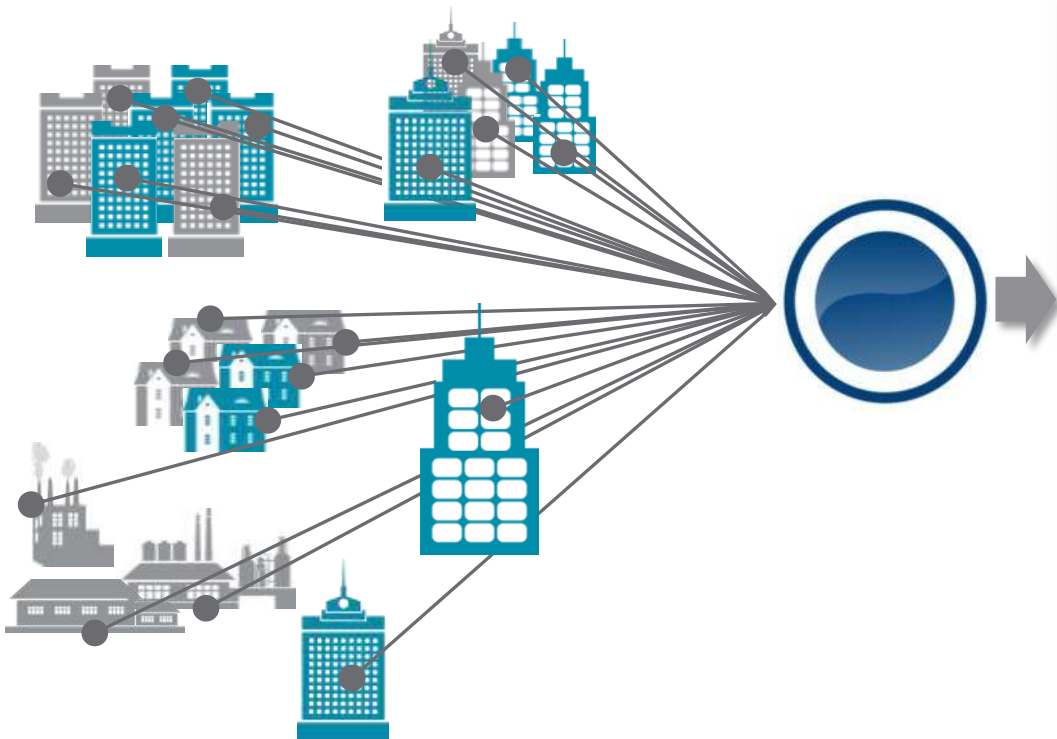
Today's Portfolio Energy Management Challenge

Applying scarce resources to managing energy issues across a portfolio of facilities, such as schools, requires real-time intelligence as to how and where energy is actually being consumed.

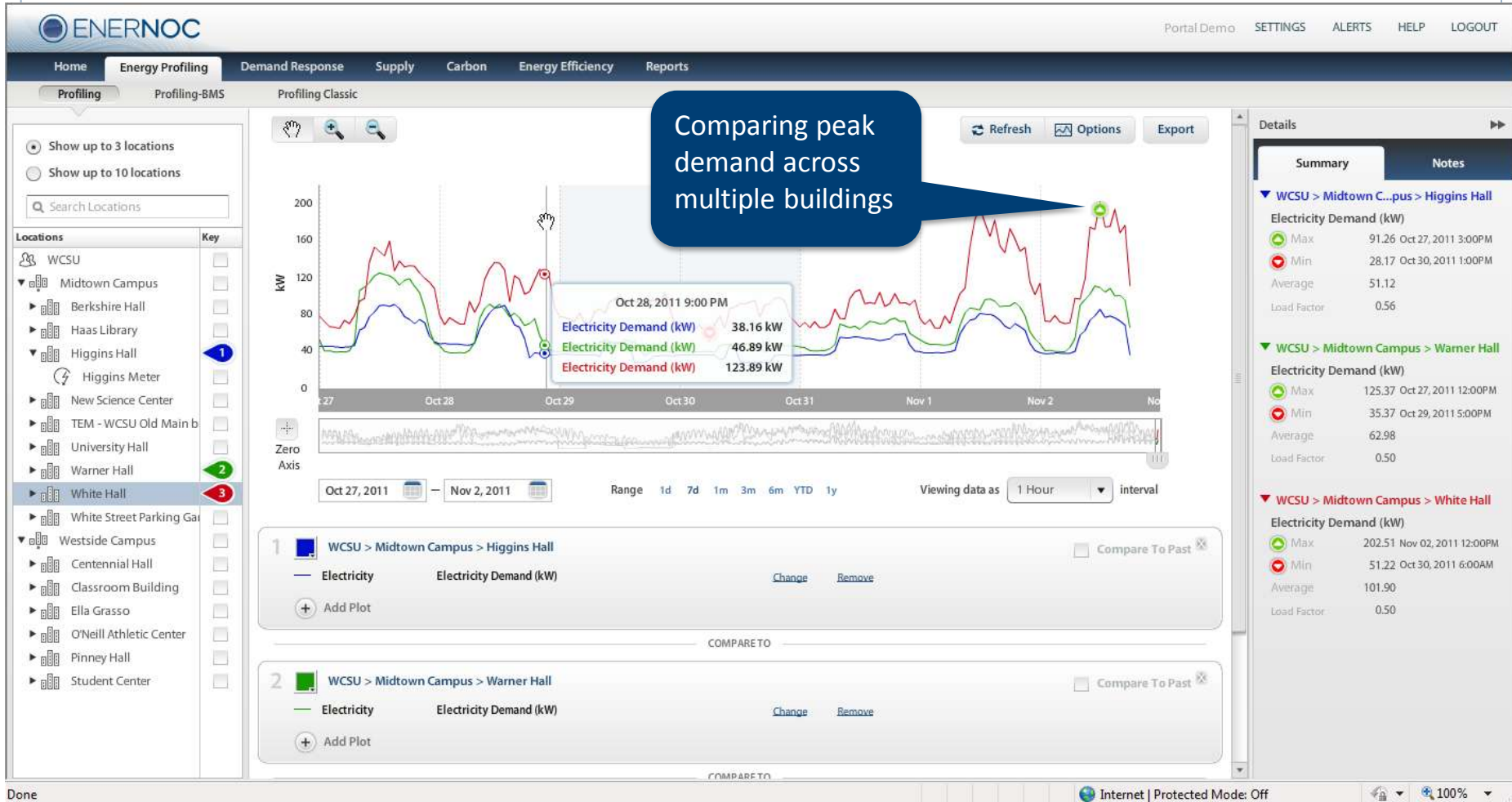


Efficiency SMART Insight

After the installation of meters and energy data transmission hardware, Insight aggregates all meter data, and delivers a powerful set of web-based interactive dashboards and reports with which to rapidly analyze energy consumption.



Energy Profiling



Load profile
Start-up conditions
Max/min usage
Weekday/weekend max/min
Weekend/holiday usage

Rolling averages
Load duration curves
Baseload
Energy intensity
Energy consumption

Baseline expected vs. current
Baseline components
Power Factor (kVAR)
Peak Demand
Load factor



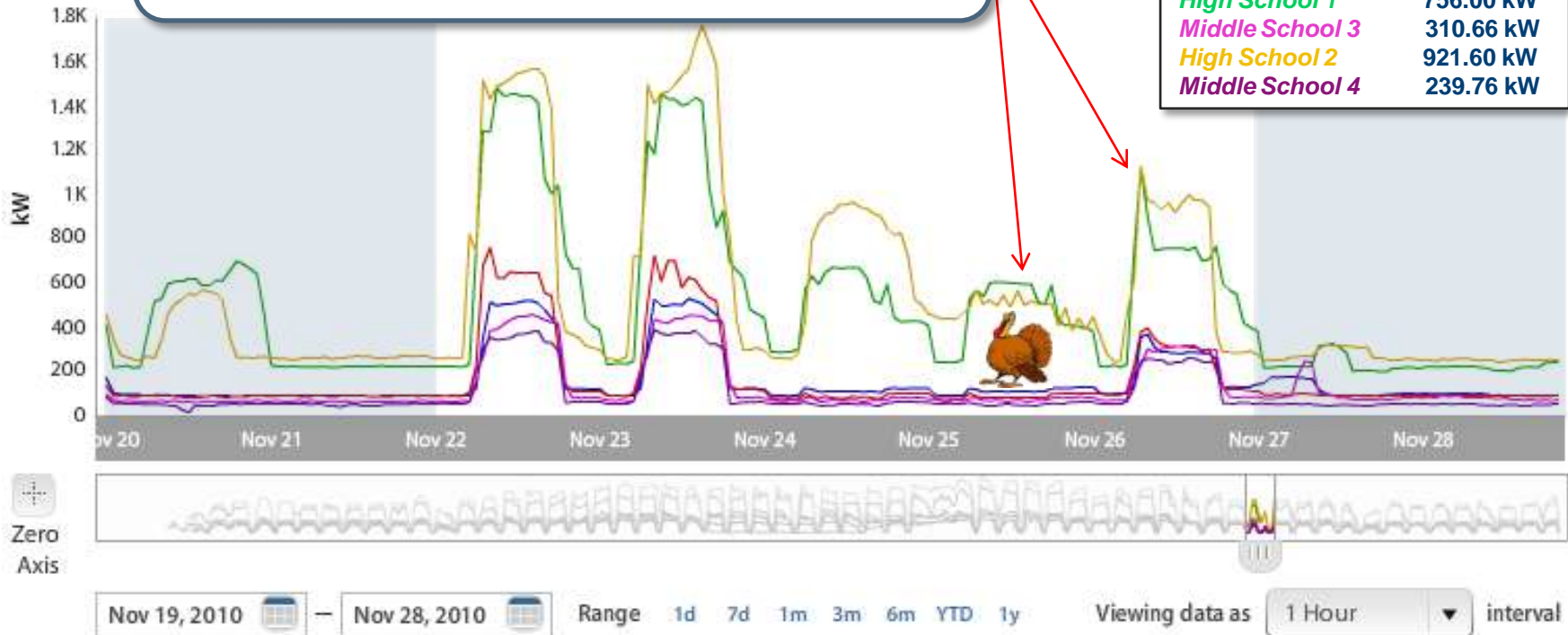
Thanksgiving Break

Industry: Education (High School)

Each of these six randomly selected schools did not fully set-back on November 26th, the day after Thanksgiving. In addition, notice that **High School 1** and **High School 2** did not set back on Thanksgiving itself.

Electricity Demand (kW)
Nov 26, 2010 12:00PM

<i>Middle School 1</i>	282.24 kW
<i>Middle School 2</i>	312.00 kW
<i>High School 1</i>	756.00 kW
<i>Middle School 3</i>	310.66 kW
<i>High School 2</i>	921.60 kW
<i>Middle School 4</i>	239.76 kW

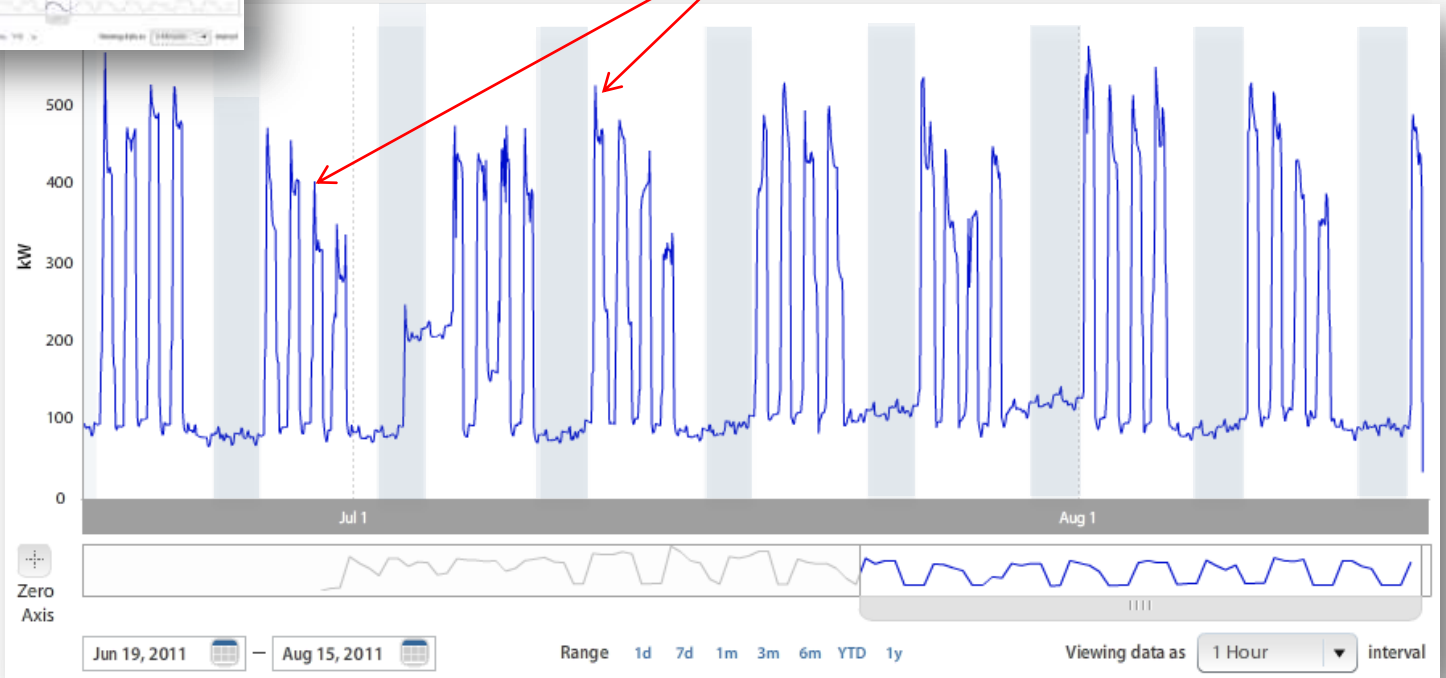


Morning Demand Spikes

Industry: Education (High School)



These start-up spikes are the result of turning all electrical equipment on simultaneously – at a time when demand charges are often set.



Peak Demand Alerts

Real-time alerts enable managers to not only mitigate the spike but also to improve the scheduling of equipment that created the surge in the first place.

ENERNOC Portal Demo SETTINGS ALERTS HELP LOGOUT

Home Energy Profiling Demand Response Supply Carbon Energy Efficiency Reports

Search Locations

WCSU

- Midtown Campus
 - Berkshire Hall
 - Haas Library
 - Higgins Hall
 - Higgins Meter**
 - New Science Center
 - TEM - WCSU Old Main bldg
 - University Hall
 - Warner Hall
 - White Hall
 - White Street Parking Garage
- Westside Campus

Add Alert

Name:

Location: Higgins Meter

Creator: demosmart

Alert Rules

Measurement: Electricity Demand

Threshold: Above kW

Contact Settings

Recipient Name	Notify By	Email Address	Cell Phone Number	Wireless Carrier
Portal Demo	Email & SMS	email@enemoc.com	<input type="text"/>	Select...

[+ Add Recipient](#)

Additional Notes:

Characters remaining: 400

Done Internet | Protected Mode: Off 100%

ENERNOC

Customer Spotlight: Memphis City Schools



Memphis City Schools deploys EfficiencySMART Insight to meet budget crunch

As one of the largest school districts in the nation, MCS needed to find a way to decrease operating expenses – operational energy efficiency was key

“Memphis City Schools is committed to reducing costs across all of our facilities, and energy plays a big role in those efforts. By working with EnerNOC, we can provide cost avoidance, manage utility resources more effectively and reduce our energy usage in the process.”

Bobby Barlow, *Energy Manager, Memphis City Schools*

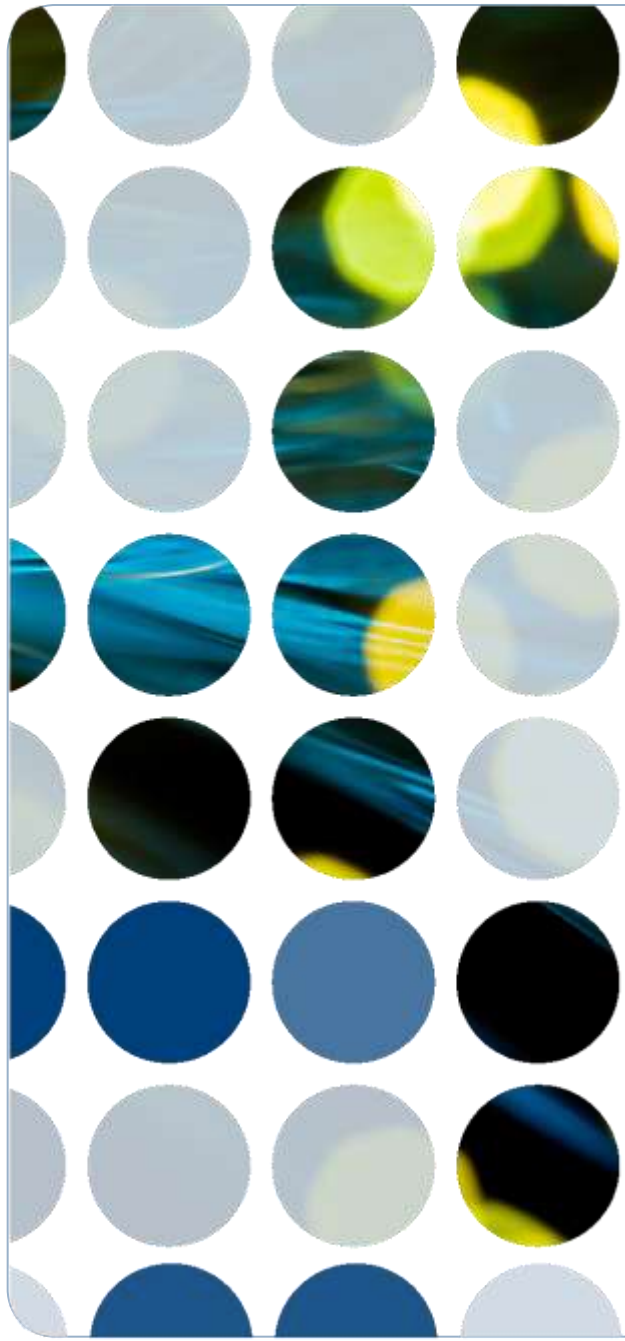
Industry
Education

Geography
Memphis, TN

Number of Locations
25 schools

Applications
EfficiencySMART Insight

Results
Within a few days of deployment, EnerNOC’s analysts determined that 15 schools had significant potential to shutdown farther during off-hours, resulting in annual **energy savings potential of over \$180,000** in those schools alone!



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