

A hand is shown pointing towards a glowing digital interface. The background is a complex network of blue and white circuit patterns, with a central glowing square area. The overall theme is technology and data.

Let Data Drive Your Energy Efficiency Decisions

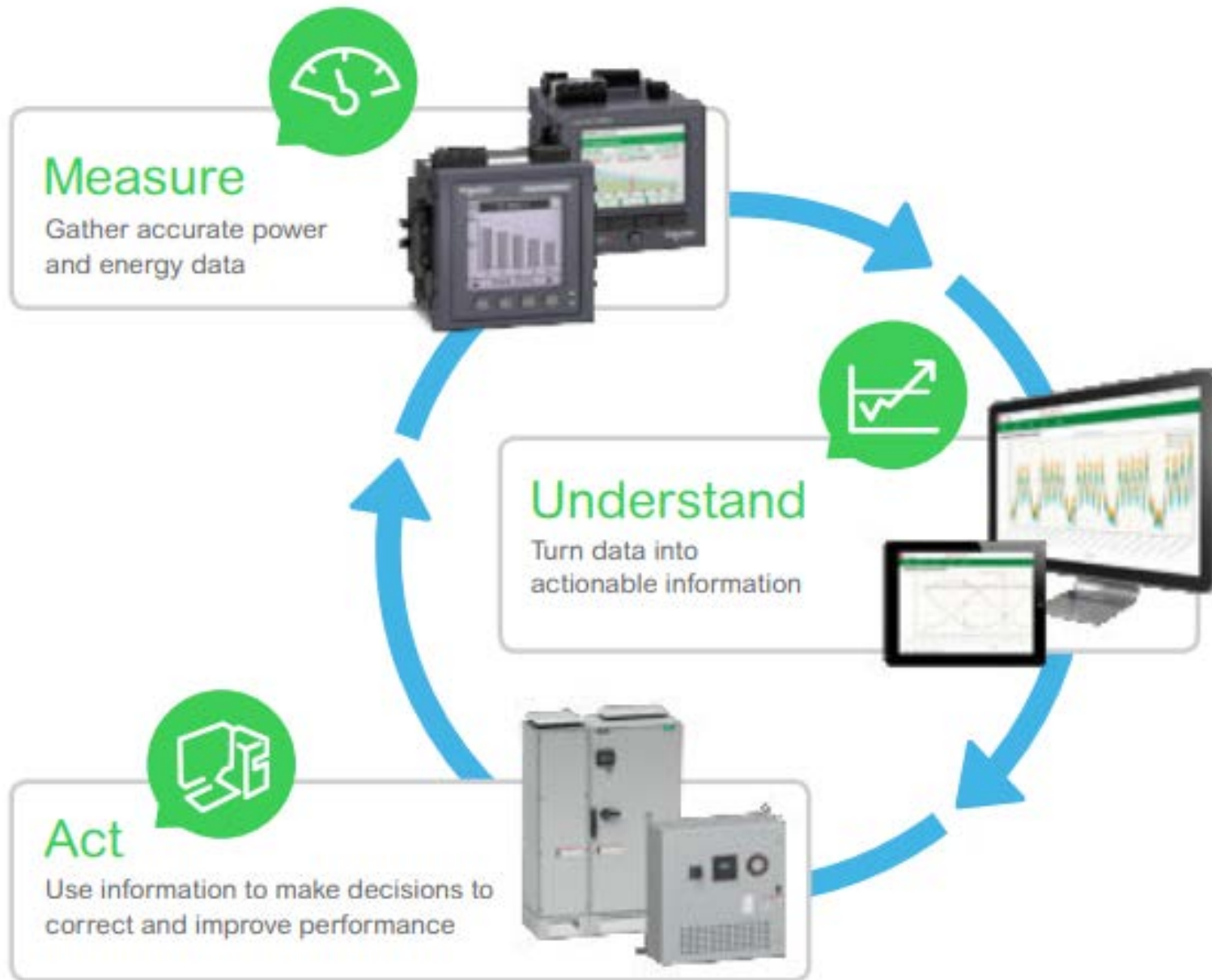
Knowledge Creates a Clearer Picture



Saving energy reduces costs and pollution and helps to improve bottom line but you need the tools to uncover all opportunities, avoid risks, track progress against goals, and verify success.

A data collection system consisting of meters, software, power quality and efficiency solutions will help manage all energy assets, every second of the day.

An Energy Monitoring System enables all stakeholders, from CEO to facility and engineering managers, to respond quickly to potential problems and manage energy in financial and environmental terms.



Knowledge Creates a Clearer Picture

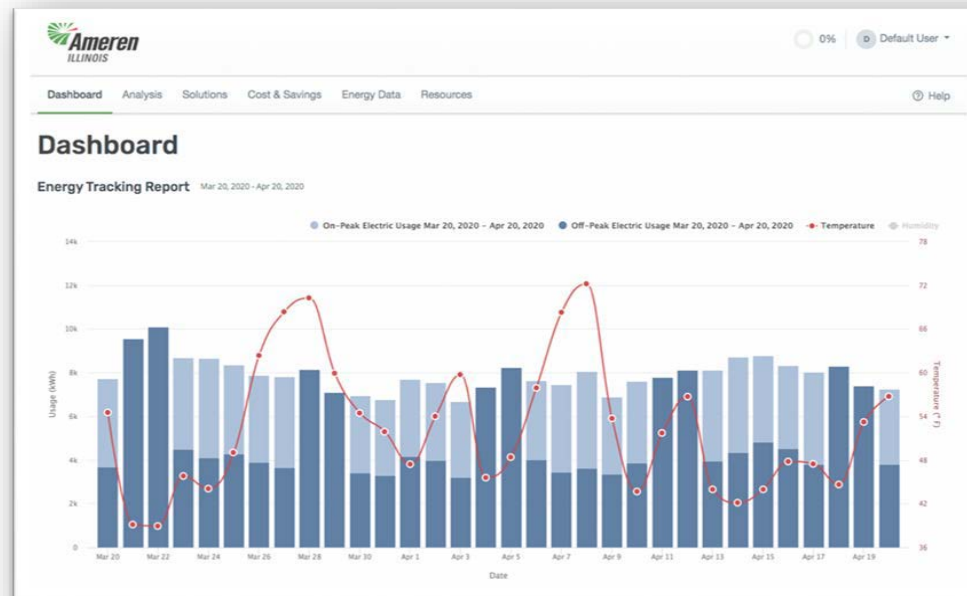


Measure

Gather accurate power and energy data



- **Utility Companies are already gathering energy usage data for you!**
 - Many have web portals you can access to view your usage.
 - This data can give you a good overview of your entire facility and provide good insights to potential areas of improvement





Measure

Gather accurate power and energy data



- Install energy meters at critical locations within your facility and monitoring software for a closer look
 - All major manufacturers offer meters and monitoring software ranging from less than \$100 to thousands of dollars depending on functionality so you can start inexpensively and grow into a very powerful energy monitoring system.



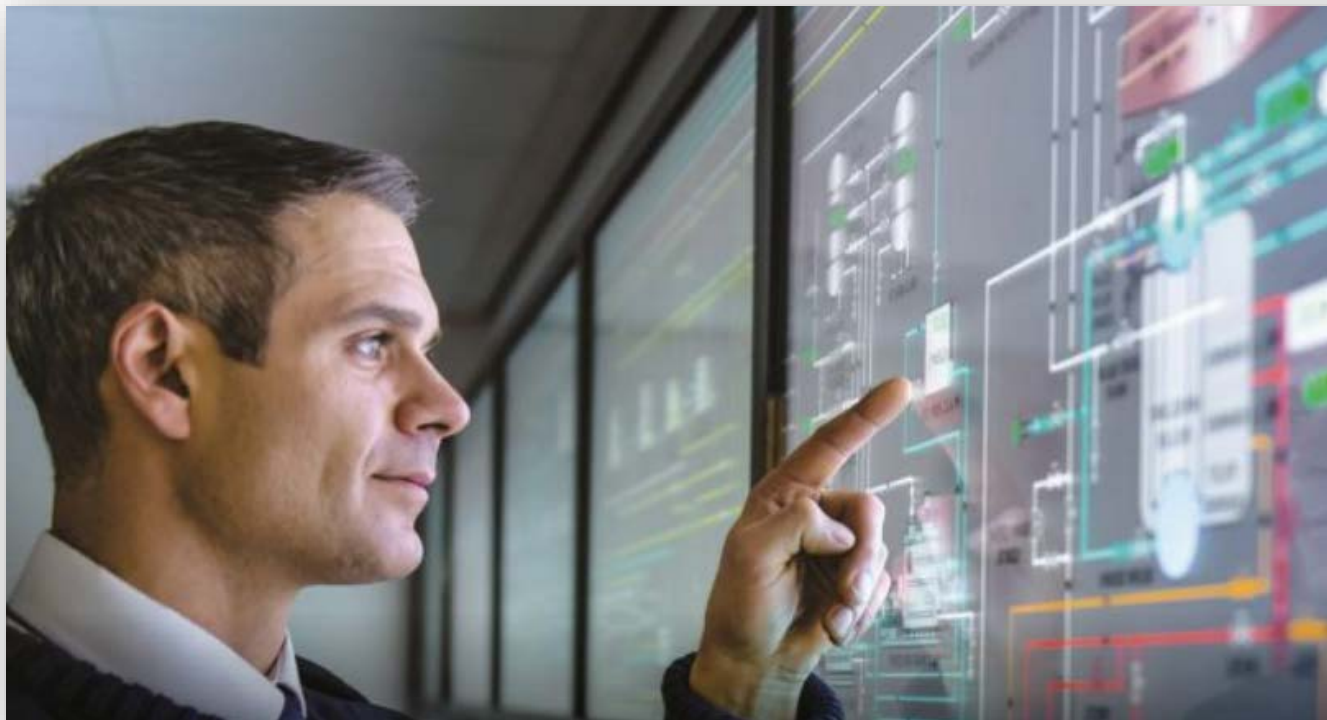


Measure

Gather accurate power and energy data



- **Remote monitoring services – “Energy as a Service”**
 - Companies that provide the hardware and remotely monitor your energy usage and make recommendations to your team.





Understand

Turn data into actionable information



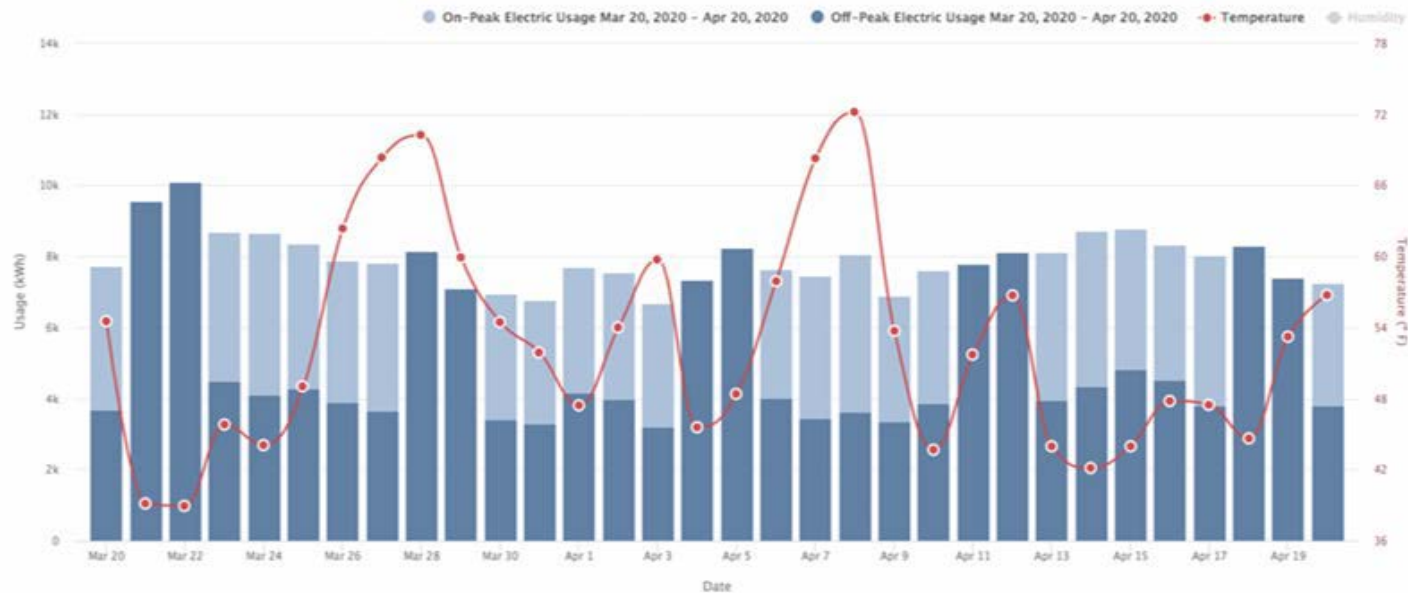
0% Default User

[Dashboard](#) [Analysis](#) [Solutions](#) [Cost & Savings](#) [Energy Data](#) [Resources](#)

[Help](#)

Dashboard

Energy Tracking Report Mar 20, 2020 - Apr 20, 2020



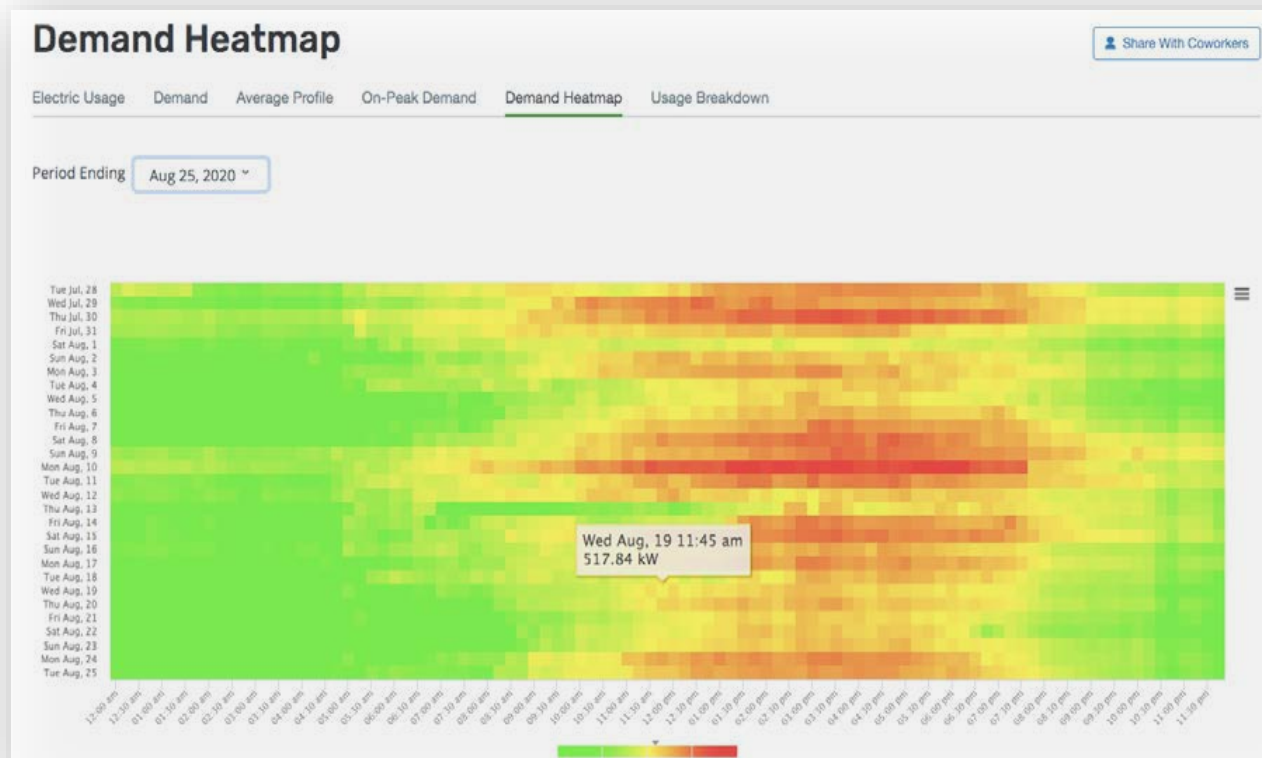
Understand

Turn data into
actionable information



» Energy Usage Data:

- Provides insight into your daily usage to help you make more informed decisions about your energy usage patterns
- Assists in identifying patterns of high consumption
- Understand where and how you're using the most energy





Act

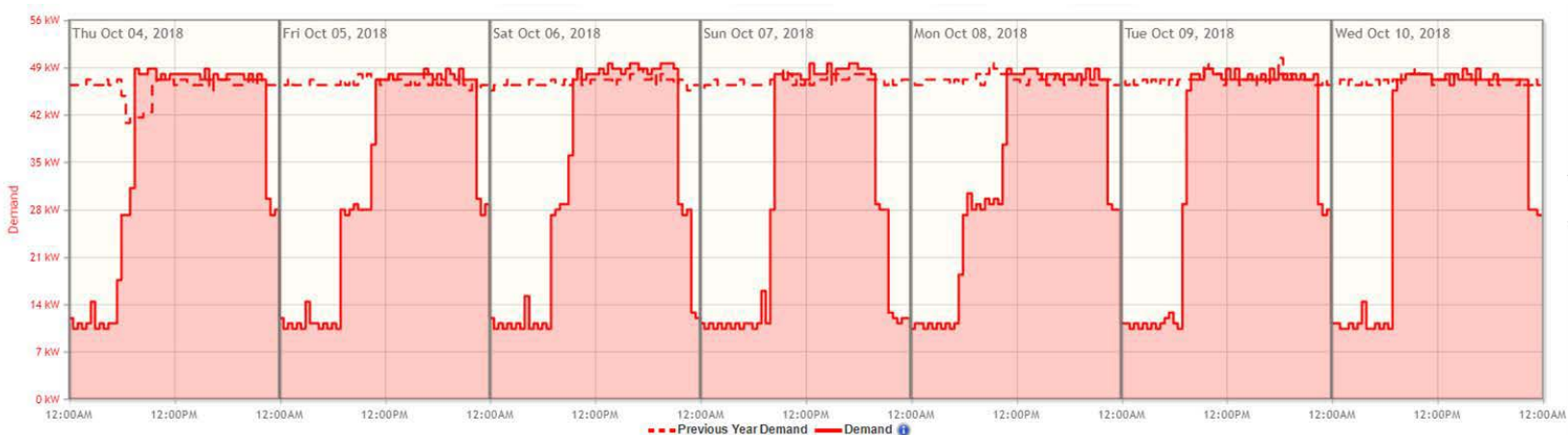
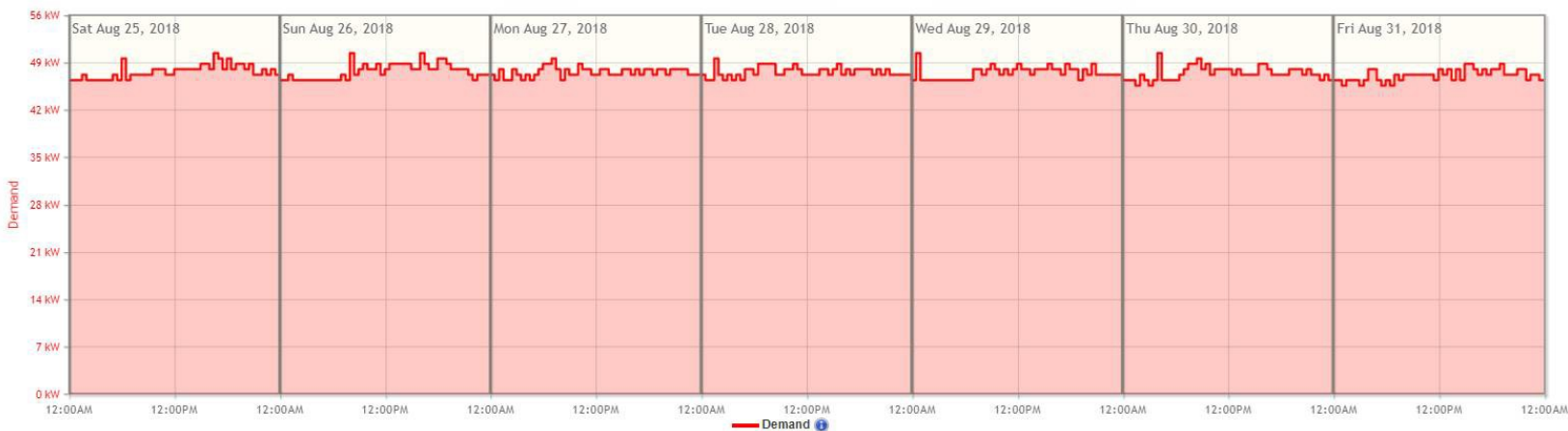
Use information to make decisions to correct and improve performance



RETAIL PARTICIPANT

Annual Energy Savings: 92,000

Annual Cost Savings: \$8,500



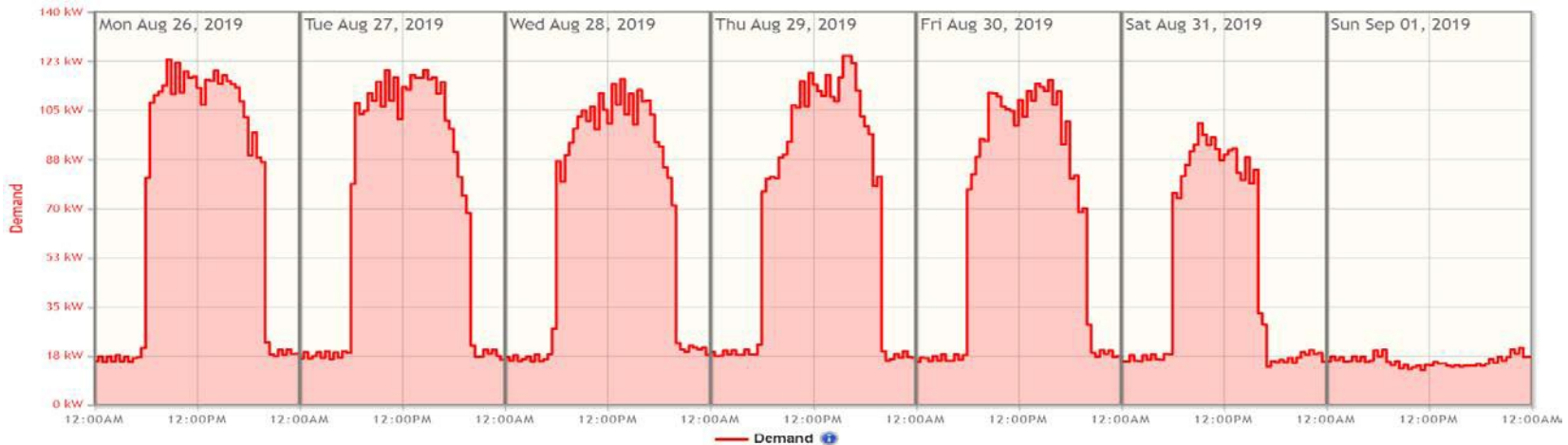
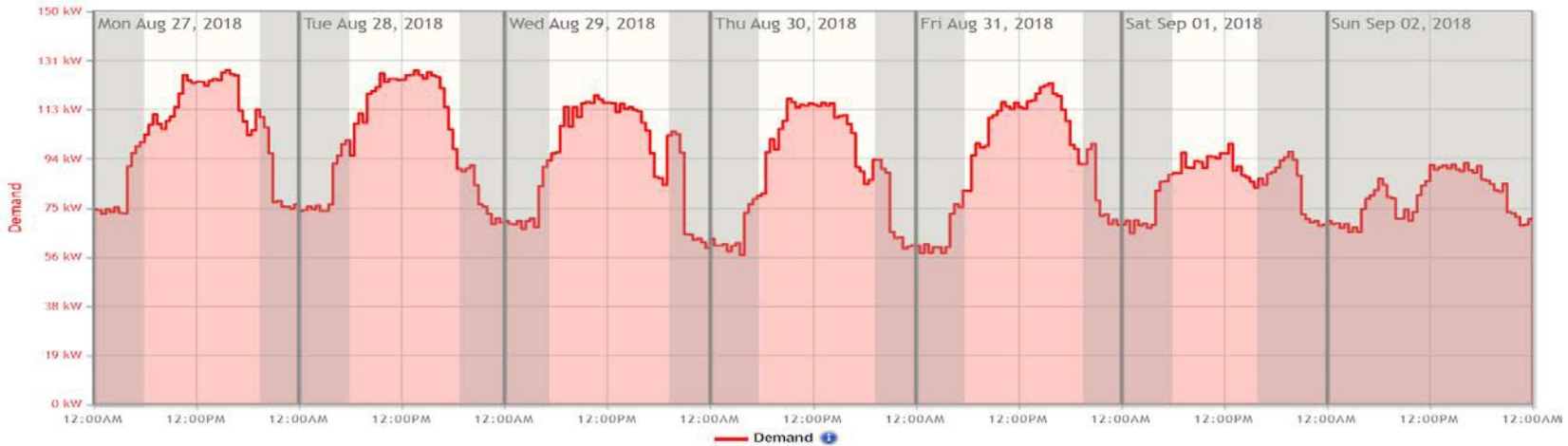
Act

Use information to make decisions to correct and improve performance



BANK PARTICIPANT

Annual Energy Savings: 149,800 kWh Annual Cost Savings: \$13,330



Act

Use information to make decisions to correct and improve performance

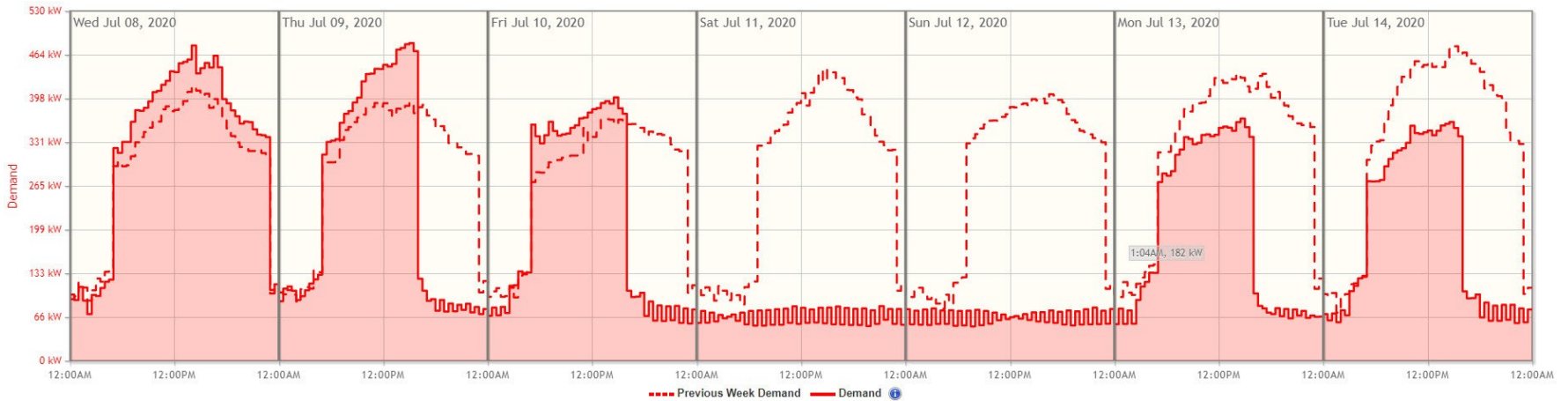


SCHOOL PARTICIPANT

Annual Energy Savings: 129,350 kWh

Annual Cost Savings: \$11,255

Amounts to: 4,500 more meals for students





Act

Use information to make decisions to correct and improve performance



» What can be done?

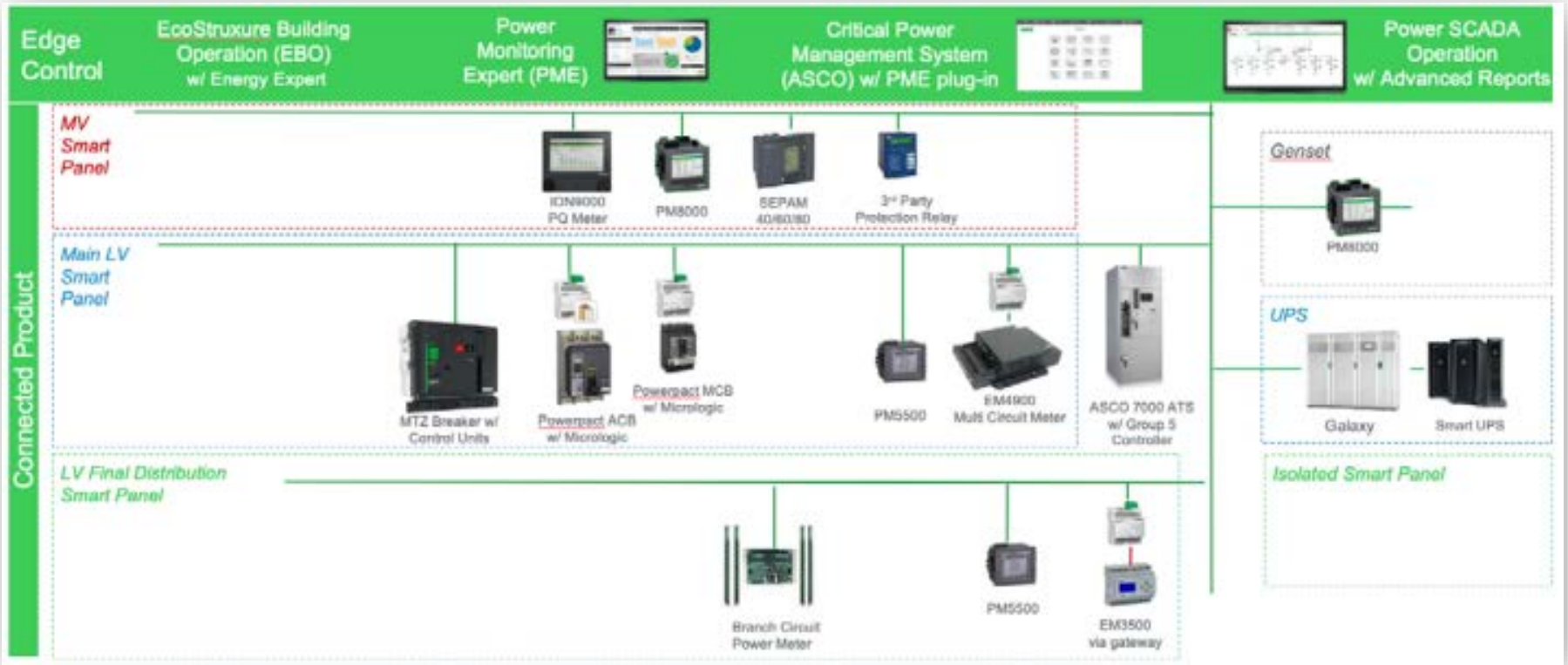
- Behavioral changes
- Replacing “energy hogs” with higher efficiency alternatives
- Adding automated control systems
- Tune up existing systems

Act

Use information to make decisions to correct and improve performance



» Taking it to the next level

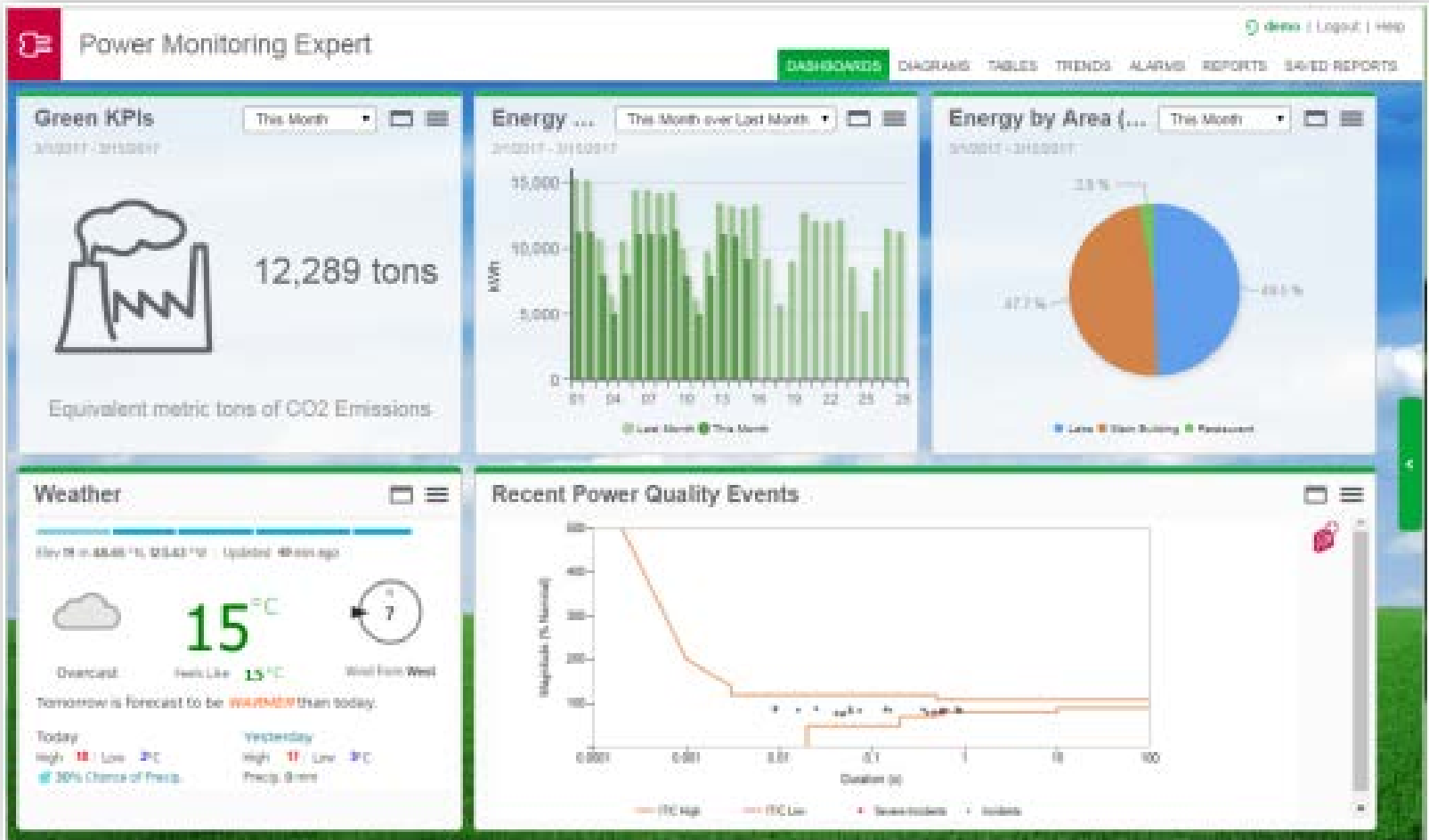


Act

Use information to make decisions to correct and improve performance



» Taking it to the next level





Act
Use information to make decisions to correct and improve performance



» **What's in it for me?**

- Energy usage analysis
- Energy benchmarking
- Cost allocation
- Greenhouse gas reporting
- Energy efficiency compliance
- Energy performance analysis
- Energy performance verification

Clearer understanding of where energy is consumed

- Determine how much energy is consumed by the various load types or areas to identify where to focus energy conservation initiatives
- Understand energy usage patterns and find energy waste
- Analyze what factors contribute most to energy usage
- Assess energy usage by process area or by product output
- Create energy usage models and compare actual consumption against expected



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Compare energy usage to find areas of over-consumption

- Benchmark energy usage with respect to other buildings / plants / process lines
- Provides benchmarking across multiple sites from a centralized location
- Compare energy usage by normalizing consumption with respect to area / production volume or other drivers
- Gain understanding what makes an energy efficient facility use less energy than an inefficient facility



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Pinpoint best opportunities for energy efficiency measures

- Measure energy costs using standalone metering or embedded metering
- Measure and allocate energy costs by business unit, department, area, floor, or building through metered data reporting
- Before initiating an energy savings project, it is necessary to understand which load type, business unit, area, floor, or building provides the biggest savings opportunities
- Allocating energy cost to different departments or process areas often results in reduction as a result of a change in behavior



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Reports of energy visibility can help with reporting requirements

- Greenhouse Gas reporting based on: – Equivalent tons of CO2 emissions – Saved Trees, km driven, etc.
- Period-over-period usage comparison
- Building Energy Rating
- Carbon emissions can be reported and segmented by source, scope, and pollutant and can be indexed to various metrics you specify



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Maintain compliance to regulations and sustainability

- Energy Efficiency Certifications and Industry Benchmarking are becoming requirements for many new buildings – Often resulting in tax credits
- It is difficult to participate in many new projects if we cannot meet the requirements of the respective standard
- There are many different standards such as ISO50001 that are becoming commonplace
- Following guidelines defined in global standards can contribute to a significant improvement in energy intensity (energy normalized by production or square footage)



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Use information to make decisions to correct and improve performance



Analyze energy usage in the context of operations to continuously improve

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- Energy performance analysis**
- Energy performance verification

- Import “contextual” data for tracking energy performance, conducting energy analysis, and calculating important KPIs
- Gain insight into operational energy consumption by shift, production line, production output, or equipment to find opportunities to optimize
- Evaluate usage based on heating/ cooling degree days or other parameters that influence energy consumption.
- Visualization of energy KPIs in context provides a feedback loop between energy manager and operations so decisions can be made to maximize energy efficiency



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Use information to make decisions to correct and improve performance



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Ensure you are getting returns on your energy conservation efforts

- Verify energy savings resulting from an energy retrofit
- Important if performance contract is used to fund retrofit
- It is essential to have a dynamic baseline to account for the variability of energy consumption in the context of environmental factors or production
- Data provides the information to show the difference between modelled data (pre-retrofit) and the actual data (post-retrofit)
- Weigh the results of energy conservation measures with targets or goals

A hand with the index finger pointing towards the center of the frame. The background is a complex, glowing blue and white circuit board pattern with various lines, nodes, and squares. The hand is positioned in the lower right quadrant, with the index finger pointing towards the center. The overall aesthetic is futuristic and technological.

Let Data Drive Your Energy Usage Decisions

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