



Automated Load Management for Intelligent Demand Control, Demand Response, and Energy Efficiency

Spara EMS® is an online predictive energy management system that allows commercial and industrial users to reduce utility costs through intelligent demand control, demand response, and energy efficiency. By addressing growing energy costs on multiple fronts conservation and savings efforts are maximized. And because all three issues are managed with just one system purchase, installation, and support costs are significantly reduced.

Intelligent Demand Control

Demand control is a reduction in energy usage to avoid costly spikes in demand. The challenge for most industrial users is their complicated processes make simply turning off and on certain loads virtually impossible. Spara EMS, by contrast, employs intelligent demand control by carefully orchestrating all processes and making continuous adjustments to demand. Utilizing direct or remote I/O and/or data exchange with existing controls the system monitors equipment run status and deploys predictive algorithms to adjust each load to avoid coincidental peaks. The software configurations include an infinite number of operational rules and constraints to meet specific requirements. The system then maintains a savings setpoint, minimizing peak demand while protecting and prioritizing productivity, human comfort, and safety.

Control over peak demand and the subsequent savings begin immediately upon system implementation and continue to improve over time as the control is more closely adapted to the application. On average, peak demand cost reductions are between 10 and 40 percent and ROI can be achieved in as little as a few months.

Demand Response

When users participate in a demand response program they are provided financial incentives to reduce demand

at certain times, often with only minutes or hours notice. While incentives can be extremely lucrative, this often proves risky or even impossible if loads must be manipulated manually. However, with Spara EMS, demand response is automated for precision control, allowing for greater kW reduction without compromising production, quality or output.

Energy Efficiency

In addition to reducing demand for very specific events, Spara EMS can help create on-going energy efficiency by better managing consumption through a variety of activities including variable frequency drive control, scheduling, and building management.

Additional Benefits

Spara EMS includes a robust reporting engine with both standard and customizable reports that can aid in better decision-making and policy control that can be leveraged throughout the organization. Furthermore, the proven technology seamlessly integrates with and even extends legacy systems, protecting expensive investments.

A Solution for Every Need

Spara EMS is available with a variety of feature sets to serve all types of users, from those requiring a basic standalone system to facilities with extensive automation and integrations that seek not only cost-savings, but also detailed visibility into energy consumption for strategic planning. Each system comes available with a wide variety of professional services to guarantee ease of use and maximum benefit. These include turnkey installation, configuration, training, and savings optimization services.

