

Energy Profiler Online

Today's tightly budgeted utilities are expected to do more with less. There is increased pressure to improve energy efficiency and achieve renewable portfolio standards. Grid stability must be maintained without significant capital expenditures — in a world of growing renewable power and consumer generation options. And there is added pressure to support city-led efficiency mandates. Ensuring customer satisfaction is more difficult as expectations grow. Unfortunately, many utility IT groups are not properly equipped or staffed to address these challenges.

To help, at Schneider Electric, we offer our Energy Profiler Online (EPO) solution. This cloud-based energy management and demand response system connects you with your commercial and industrial customers to increase customer engagement and improve demand management.

Long-term demand management can also be enhanced by showing you and your customers accurate, detailed energy usage data to identify cost savings opportunities, support government efficiency mandates, and improve reliability and customer satisfaction. Further, EPO can enhance your demand response programs and help manage peak demands as they occur.

Multiple key functions, right at your fingertips

The user-friendly, tablet-ready EPO solution allows both you and your customers to view and chart accurate, detailed energy usage data, which can help identify cost savings opportunities and support participation in automated demand response programs. Its HTML5-based modern interface provides an interactive user experience.

EPO helps you to meet government energy efficiency mandates and easily manage peak demands — no installation required. What's more, its accuracy and scalability make it an easy way to improve your power reliability and customer service — and its capabilities are continually updated and enhanced.

Specifically, EPO can support the following functions:

- **Load profiling:** both you and your customers can track the load patterns at specific facilities over time — in near-real time — correlating energy use and



Standards compliance

EPO is committed to supporting the latest industry standards.



- Facilitates automated, secure demand response management



- Provides open, standards-based access to customer usage data



EPO provides a single solution for customer engagement, energy efficiency, and demand response



Secure and cloud-based

Our EPO service is hosted in a secure, reliable environment:

- All systems are secured in a state-of-the-art data center that features fire, temperature, humidity, and dust controls
- Redundant servers are behind monitored firewalls, with enforced packet filtering and network address translation (NAT)
- Performs full and incremental rotating backups with off-site storage – and all systems are monitored 24/7

costs to the weather, the time of day, and time-of-use rates. This identifies opportunities to modify behaviors, helping to avoid peaks and save energy.

- **Interactive energy reporting and analysis:** using an enhanced customizable dashboard, both you and your customers can report on energy usage based on your utility rates, average usage over various time periods and locations, and how usage impacts emissions.

Configured reports can be performed for electricity, gas, and water. Data can be output in both graphical and tabular formats, including CSV, Green Button, as well as be scheduled for automated delivery via email. This provides insight into where opportunities for energy reduction may reside within a facility's operational activities.

- **Utility bill estimation and scenario modeling:** your customers can view highly-accurate estimations of their complete utility bills over any time period, as well as model various scenarios for potential cost savings. Even cost per square foot and day information can be displayed. For example, if customers are eligible for alternate utility rates, they can estimate their costs based on those potential new rates against their current costs. Users can also model the cost impact of energy and/or demand reductions, power factor improvements, or addition of distributed energy resources, before choosing to invest in capital improvements, facility enhancements, or behavioral changes.
- **Demand response management:** if you manage your own demand response program, you can benefit from EPO's Demand Response Management System. With it, you can automate program modeling processes, model various utility demand response program rules, obtain accurate rate model-based settlements, communicate

events to customers, calculate customer performance, and even signal customers' facility management systems — eliminating the majority of manual tasks currently performed by your administrators. These capabilities also support scaling potential, eliminate human error, and reduce required program resources.

In addition, program participation is greatly improved with an integrated, intuitive Web-based user portal that allows customers to easily participate in events and track their own performance. You can incentivize load shedding at critical times with automated notifications, signaling, settlement, and event management processes.

OpenADR 2.0 enables scalable, secure, and standards-based automated demand response. When events occur, EPO can signal customer facilities and distributed energy resources (DER) to support faster demand response. This can help avoid capacity issues and improve reliability — without building out additional generator capacity. Fast-acting, automated demand response solutions can also offset the impact of renewables on grid stability. In addition, DER-enabled customers can use EPO to help track and monitor performance, as well as model the potential ROI of a project.

- **Real-time pricing programs:** better manage your real-time price programs with future and historical daily price streams, plus energy charge calculations. With daily day-ahead forecasted loads, you can improve short-term planning. Tools are available to help you analyze “what-if” usage and better assess the impact of changes. What's more, OpenADR 2.0 facilitates energy price conveyance to customer energy management and control systems.



EPO's enhanced interface provides
an optimal mobile experience for end users

- **Interoperability:** EPO delivers various methods that allow your own and your end users' systems to interact with the data from EPO using industry-leading standards, such as Green Button. This reduces integration costs and helps customers to readily access their data and extend its value for use in third-party energy apps. In addition, EPO can incorporate near real-time data from your customers' smart meter AMI systems, legacy meter management systems, and sub-meters of critical loads. With EPO, you can attain utility CIS and billing system interoperability.

Improve customer service and engagement

Improving customer relationships can help you better meet your customer service, customer engagement, energy efficiency, and capital cost avoidance goals. With EPO, you and your customers can monitor their energy use, improve efficiency, measure the effectiveness of energy-saving programs, and generate analysis reports. EPO can be branded and programmed to your needs for improved engagement. It offers energy reports, emissions tracking, bill estimating, demand response, and a Green Button interface, all in one intuitive Internet-based portal. And by providing robust information and capabilities, you can position yourself as a trusted advisor, helping customers to meet their cost and sustainability goals.



EPO can be branded to your utility's offer to further enhance value for your end users

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