

Energy Profiler Online (EPO)

Robust energy reporting and demand response for utility C&I customers and account teams.



Schneider Electric's Energy Profiler Online (EPO) is a cloud-based SaaS solution designed to provide energy data presentment, utility engagement, and demand response for a utility's commercial and industrial (C&I) customers. Today, this important customer segment is rapidly changing the way they approach energy consumption and costs, and utilities must effectively address their evolving needs. EPO allows utilities to provide meaningful data analytics, historical tracking, ongoing communications, and demand response programs through one easy-to-use digital platform.

EPO provides C&I customers with personalized energy usage reporting and historical tracking; highlighting time of use (TOU) periods, and displaying DERs meter data distinctly (delivered, received and net), as well as in aggregate. A powerful rate engine allows customers to run complex 'what if' rate analysis scenarios to quantify how different rates and energy use changes can impact their bill.

EPO is also designed to assist internal utility teams with their work. The reports and 'what if' scenarios assist key account managers in identifying customers for demand response and energy efficiency programs. A curtailment module provides the utility demand response (DR) team with program management and historical tracking from contracting through settlement.

Marketing and program teams can take advantage of advertising tiles to promote utility offerings, and links can be prominently displayed within EPO to direct customers to specific content on the utility website. Customer service representatives can view the same EPO content and reports as customers. This content mirroring minimizes call times and improves customer service. And many departments throughout the utility benefit from the myriad of reports that can be generated through EPO.

EPO at a glance

- Cloud-based SaaS technology; always up to date
- Manages data for electric, gas and water
- Load profiling
- Energy reporting
- Emissions tracking
- Bill Estimation & Scenario Modeling
- Behavioral and Operational Demand Response
- Energy diagnostics
- Green Button Download & Connect
- Alarming & notification
- Behind the meter integration & monitoring of DER resources and submetering of critical loads
- Utility administration tools
- Multi-device, responsive interface
- White label; branded as the utility
- Integrates with existing utility systems
- Continuous agile product development

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A Modular Solution

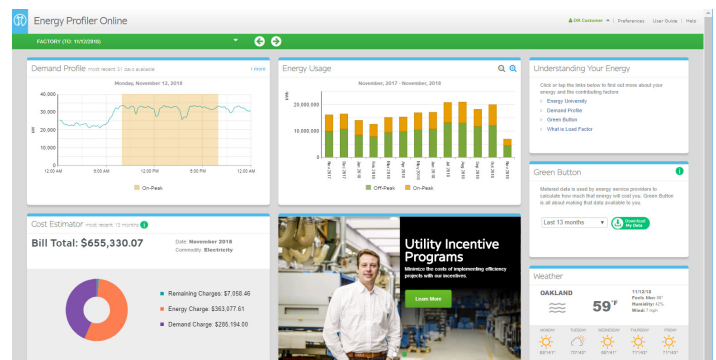
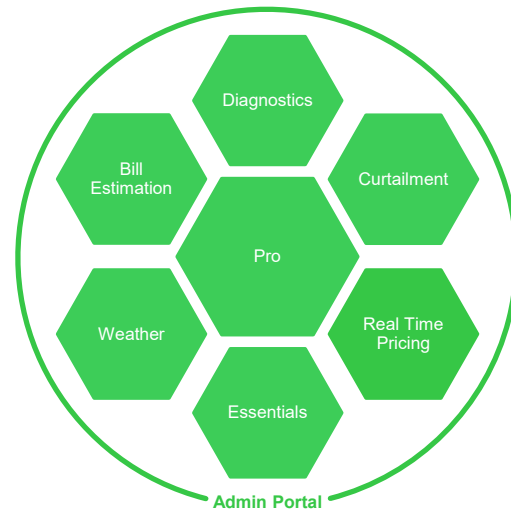
EPO is comprised of the base technology and reports found within the Pro module, and a suite of optional modules; Bill Estimation, Curtailment, Diagnostics, Real Time Pricing, Weather, and Essentials. Together they bring utilities a powerful digital solution with robust energy reporting and communication capabilities for all C&I customers.

EPO Professional for the energy savvy user

EPO Pro and its associated modules are designed specifically to serve utility staff and large C&I customers with sophisticated energy reporting needs. With EPO, large C&I customers enjoy robust customized energy reporting, including usage data and analysis, billing data, load profiles, heat maps, rate comparisons, scenario modeling, Green Button functionality, alerts, and even utility operated demand response program participation and tracking.

EPO Essentials for the energy novice

EPO Essentials is designed for the needs of small and medium C&I customers. Essentials is an online dashboard with streamlined energy reporting—for the business customer that is less energy-savvy than a building engineer. It can be bundled with Professional or offered independently. The Essentials dashboard provides customers with personalized high-level energy data, billing estimation data, utility and program information, Green Button download, and easy access to utility programs and educational information. The features and functionality of the dashboard are all designed with simplicity in mind.



Energy Profiler Online (EPO)

Sampling of EPO Features and Benefits

Data Access, Reporting and Analysis

- View energy usage, load profiles, CO2 emissions, and costs
- Analyze and compare multiple time periods
- Normalize demand and usage across multiple facilities
- Aggregate data from multiple sites
- Utilize heat map and top 10 energy and demand day reports to detect anomalies
- Generate data in both graphical and tabular formats
- Retain historical data and statistics to track and compare past energy usage and price trends
- Export data in CSV, Green Button format, and on-demand Web service
- Import “near real time” meter data for event monitoring, with nightly true-up
- Customize user configurable dashboard
- Enable third party access to energy data

Estimated Bill and Scenario Modeling

- View estimated bills for any time period
- Explore the effects of rate changes
- Normalize energy information (e.g. per sqft, production)
- Model cost impacts of rate options, load reduction, and energy efficiency programs

Automated Reporting and Alerts

- Save and view configured reports
- Schedule automated report delivery via email
- Notification of demand response events
- Set min/max thresholds for usage or pricing
- Designate recipients for automated alerts

Demand Response

- Model various utility DR program rules
- Manage customer interactions via intuitive, web-based interface
- Automate event management, notification, signaling, and settlement processes
- Obtain accurate rate-model-based settlement
- Attain utility CIS/billing system interoperability
- Signal customers, convey real-time energy prices, and monitor compliance
- Offer secure, real-time signaling to customer facilities with OpenADR 2.0

Sampling of EPO Features and Benefits

Real Time Pricing (RTP)

- View future and historical daily price streams
- View RTP energy charge calculations
- Select day ahead daily forecasted loads
- Analyze “what-if” usage to assess impact of changes
- Energy price conveyance to customer energy management and control systems through OpenADR 2.0

Administration

- Configure customer, account, and meter relationships
- Manage full-user life cycle (e.g., passwords, rights, roles)
- Model and administer demand response programs
- View administrative and system usage reports

Data Integration

- Secure, nightly import of validated interval data from utility MDM or AMI system
- Near real-time interoperability with customer EMS, sub-metering, or utility AMI systems
- Import weather data from online weather services
- Green Button Web service API and Green Button “Download My Data” export service
- Integrate demand response settlement results with utility CIS/billing systems
- Interoperable with ISO programs

Support

- Full time EPO support team available to assist utility staff by phone and email
- Utility staff training provided
- Direct customer training optional
- Online support community of peer utilities

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TBD

www.schneider-electric.us