

Rockwell Software Industry Solution

Facilities Energy Monitoring

Combine predictive energy models with business systems to gain unprecedented financial insight from operations

Benefits:

- Reduce total energy costs 5 – 20%
- Improve operational planning and facility maintenance decisions
- Models of energy meters and equipment allow for real-time system diagnostics
- Holistic approach to enterprise energy management

Rockwell Software Solutions

Our solutions leverage Rockwell Automation's 100+ years of innovation, experience and global support. Industry best practices are incorporated into every application, which is built upon a composite application framework that leverages a Service Oriented Architecture (SOA). This scalable solution, when combined with library-based content, offers personalization options that promote faster user adoption and time-to-value.



The Challenges

A rapidly growing focus on energy and environmental concerns has created challenges for manufacturers with sustainability initiatives. Managers of multiple facilities face obstacles in an attempt to reduce energy consumption, costs, and waste while producing quality products.

The energy requirements of building facilities vary depending on multiple factors, including occupancy levels, a building's usage patterns and the weather. Challenges exist with disparate data sources, legacy devices, and the inability to predict or correlate energy consumption, equipment behavior, and external utility costs. This often leads to ineffective energy management measures. In addition, a lack of consumption metrics prevents the proper characterization of usage patterns for improvement opportunities.

Rockwell Software recognizes these various challenges and offers an application that links building models to weather forecast services and delivers valuable information for proactive decision making to drive energy and operational cost reductions.



LISTEN.
THINK.
SOLVE.™



Real-time visibility into operations to drive energy efficiencies and cost reductions

Facilities Energy Monitoring

Using empirical data to model the energy consumption of a facility, the Facilities Energy Monitoring Application, from Rockwell Software, predicts the energy demand necessary to meet building load demands throughout the enterprise.

Energy Monitoring

This application monitors all supply and consumption of electricity, fuels, chilled water, and steam at the central plant and at each building under management. It also monitors external variables such as energy costs, calendar and weather conditions and forecasts.

Prediction Capabilities

Users can track actual consumption of energy by unit and by cost per building on an hourly basis and predict what consumption should be for various weather, calendar and occupancy conditions. Insight into the predicted energy profile at the building, line, or equipment level assists in the detection of abnormal behavior, thereby improving the quality of maintenance decisions and operational planning. Furthermore, the ability to model, trend and

visualize energy data throughout the enterprise allows for improved decisions in the purchase of electricity and overall management of a central plant.

Analysis Opportunities

By leveraging the predictive modeling technologies of Rockwell Software and by integrating financial costs associated with electricity or natural gas consumption, users can better understand and capitalize on the economic value of energy-saving opportunities as they unfold. This enables a proactive approach to enterprise energy management.

The pressure to reduce energy consumption and support sustainability initiatives cannot be underestimated. This application dynamically predicts the energy demand of multiple building facilities, thereby providing opportunities to reduce total energy consumption by more than 20%.

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