

# Movicon Pro.Energy

## Software Technology for Energy Efficiency

- Enable reduction of energy expense with real-time analysis of consumption data and cost.
- Detect corrective measures needed to achieve continuous energy efficiency improvements, competitive advantage, and corporate eco-sustainability.
- Deploy easily with intuitive, fast, wizard-based setup and configuration.
- Verify, document, export, and send reports on consumption reductions with powerful, customizable data analysis tools.
- Provide full visibility of energy consumption, avoiding load peaks and enabling immediate reaction to alarms.
- Easily integrate with measurement devices and control systems using a vast library of native I/O drivers.
- Integrate with a wide variety of measurement tools using open architecture based on Movicon.NEXT™ technology.
- Continuously monitor real-time energy usage with measurement tools on intuitive dashboards that can be viewed locally or remotely via HTML5.
- Provide maximum data integration and openness with native OPC UA communication.

### Increase Efficiency and Sustainability – Powered by Movicon.NEXT

Managing energy via manual data collection and spreadsheet data entry is time consuming, error prone, and complex. As more companies embrace sustainability initiatives and drive towards more efficient, greener operations, closer, easier tracking of energy goals not only reduces costs but

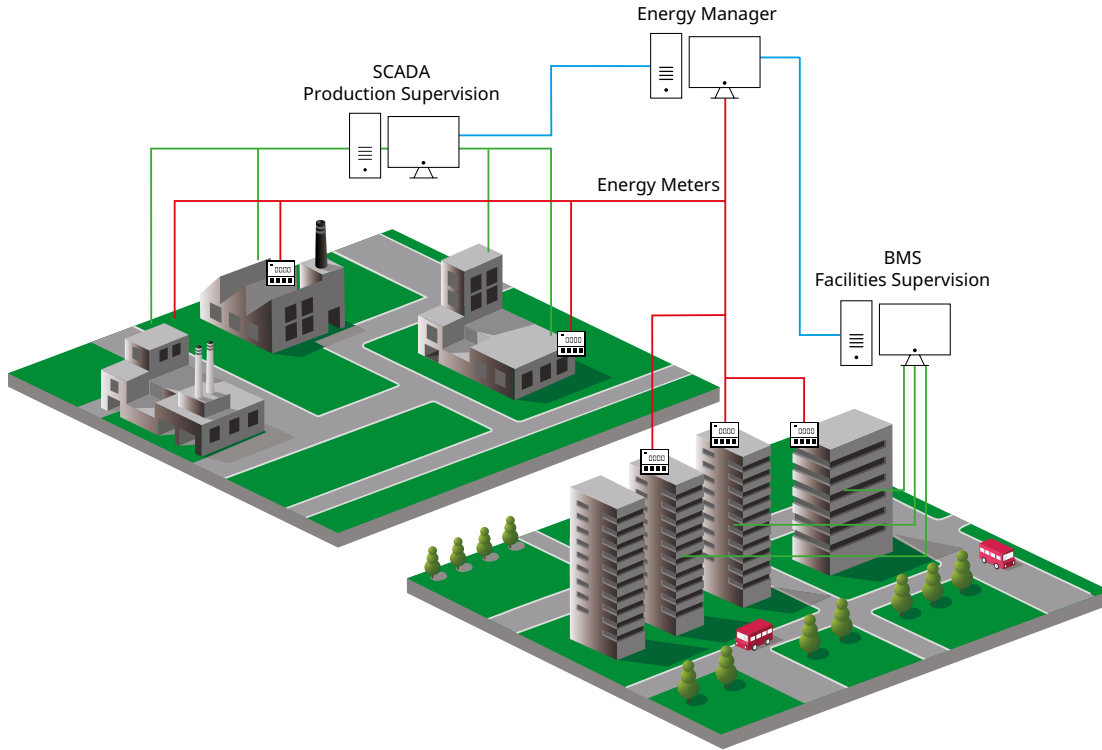


contributes to efforts to meet environmental, social, and governance standards. In addition, the enforcement of more stringent norms is forcing companies to endorse new energy efficiency standards such as those defined by the ISO-50001 norm relating to energy management standards, or the EN-15232 for energy efficiency in buildings.

Emerson's Pro.Energy is an easy-to-use, easy-to-configure EMS designed to help users quickly gain the required visibility they need into their energy use and costs to increase energy efficiency, monitor consumption, and improve their organization's carbon footprint.

Whether from a workstation in the control room, or from a mobile device in the field, users can instantly access highly-intuitive, customizable dashboards that translate raw data from devices and energy carriers into actionable information.

Wizard-based setup and configuration makes it easy to have Pro.Energy up and running in a matter of minutes. The wizard helps users select field variables and automatically create data collection databases. In just a few short steps, energy managers can create real-time dashboards, calculation databases, and analytical reports.



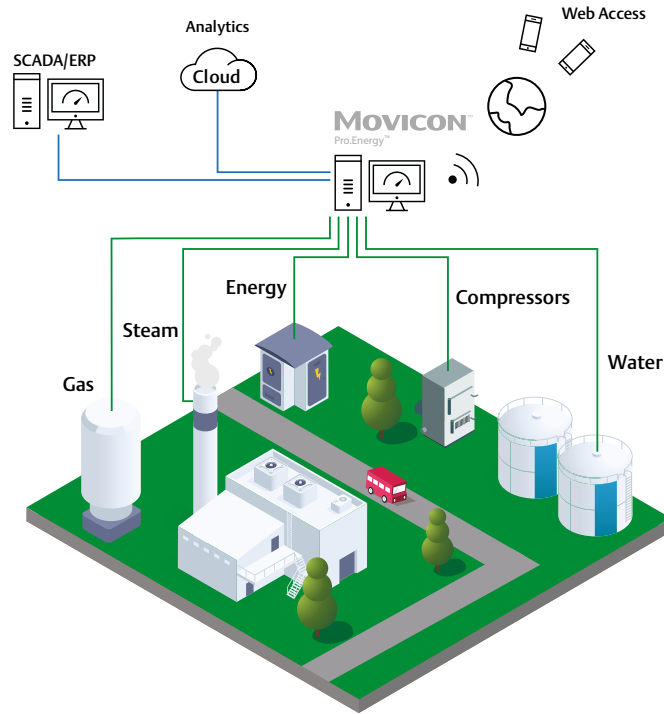
**Pro.Energy offers critical energy management features including:**

## Increased Flexibility Through Open Communication

Pro.Energy is based on Movicon.NEXt technology, offering numerous integrated solutions to connect directly to PLCs, multimeters, analyzers, remote I/O, and control systems via native I/O drivers. Pro.Energy can also reduce investment and complexity in data collection, easily creating a powerful supervision architecture. It connects to HMI and SCADA systems already installed on production lines and to remote telemetry devices in IIoT equipment using OPC UA client and server.

Collect and record all energy consumption data, and automatically import tags with a wide variety of fully integrated communication protocols including:

- Modbus
- Bacnet
- Konnex
- LON
- Simatic
- Schneider
- ABB
- Profibus
- Profinet
- IEC 60870
- IEC 61850



## Take Advantage of External Datasets for Deep Analytics

Because Pro.Energy runs on Movicon.NEXt, users can collect data to manage assets more efficiently through Pro.Energy data in tandem with control system data coming from Movicon.NEXt, teams can identify the status of assets to help make decisions for altered or reduced operation or implement different scheduling to take advantage of off-peak rates.

### ***High-performing databases, trends, analysis and reports to collect, display, and analyze energy efficiency***

#### ■ **Powerful Calculation Database**

Pro.Energy collects all energy data from meters and stores them in a SQL server database, where it uses powerful analytics tools to record and calculate energy consumption data and cost. The database is automatically deployed during setup and uses data logger objects that are automatically created by the configuration wizard.

#### ■ **Fully-Configurable, Intuitive Dashboards**

Collected data are displayed in real time on a dashboard with clear, easy-to-understand, interactive graphics to display energy consumption trends in real-time.

Connect visualizations to a local HMI or to any local or remote web-based device supporting HTML5.

All graphical layouts can be fully customized to meet any need. Pro.Energy dashboards support addition of many supervisory screens and factory layouts.

#### ■ **Automated Analysis Reporting**

Eliminate peak hour energy use overages and excessive energy consumption by automatically correlating energy usage with specific equipment. Automatically track, trend, and report information from energy sensors to generate insights through reports created quickly and easily using built-in wizards. A complete set of powerful consumption data analysis tools empower users to verify, document, export, and send reports on consumption and achieved reductions. Fully-customizable reporting tools provide sophisticated and powerful analytics to help energy managers identify areas of waste and opportunities for improved efficiency and sustainability.

Create reports based on time period or measurement and easily include tables and detailed charts. Pro.Energy supports report visualization via web browser, export to many different formats, or delivery via email.

## Data Collection

**Pro.Energy is more than a data collection system for calculating energy efficiency. It is an open, extensible solution to help meet energy efficiency and regulation requirements.**

- Open to a wide variety of pre-installed HMI and WebHMI systems
- Open to integrating supervisory screens or graphical and interactive screen layouts
- Open to system management, analysis and alarm notification integration
- Open to cross-analysis with consumption and other factory data
- Open to client and web client network architecture expansion
- Open to calculation, command, and control logic integration

For Software requirements details:  
[www.emerson.com/movicon](http://www.emerson.com/movicon)



Support Website: [www.progea.com/technical-support](http://www.progea.com/technical-support)  
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