**Overview**

FactoryTalk® EnergyMetrix is a web-enabled, energy management software package that gives you access to critical energy information from virtually any location. The software combines data communication, client-server applications and Microsoft’s advanced .NET™ Web technology to provide you with a complete energy-management decision support tool.

With FactoryTalk EnergyMetrix, you can capture, analyze, store and share energy data with key stakeholders using a standard web browser. This makes it simple to distribute the knowledge necessary to optimize energy consumption, manage power quality, correlate energy usage, determine cost to production, negotiate energy rates and improve efficiency.

Offering insight across processes, across facilities or across countries, FactoryTalk EnergyMetrix is a scaleable solution that help you drive smart energy decisions.

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**Features and Benefits**

FactoryTalk EnergyMetrix provides a comprehensive view of energy data in one place. With FactoryTalk EnergyMetrix, you can:

- Provide accurate cost accounting based on energy usage
- Generate energy reports and charts for a process, line, area, department, or facility
- Optimize energy procurement
- Monitor harmonics to facilitate targeted maintenance
- Easily procure and analyze energy information with minimum capital investment
- Understand the impact of power quality events on your equipment or facility
- Assign energy costs to the process that generated those costs
- Generate customized reports to suit your information needs

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Scalability
FactoryTalk EnergyMetrix has the scalability to add additional software features while maintaining your initial investments

Base Package
FactoryTalk EnergyMetrix Manager – The core data logging, reporting, trending and billing software package; available with the option of Microsoft SQL2008 server Client or Processor license

Additional Options
FactoryTalk EnergyMetrix RT – A real-time communications and configuration tool for configuring Allen-Bradley® PowerMonitor™ power meters and display their real-time data and power quality information

FactoryTalk EnergyMetrix OPC Client – Provides connectivity to third-party meters, sensors, programmable logic controllers and power monitors using OPC

FactoryTalk EnergyMetrix ChartsPlus – Offers additional charts and chart tools, including powerful energy benchmarking, forecasting and analysis tools

FactoryTalk EnergyMetrix ReportsPlus – Includes enhanced reporting features such as additional load factor, electrical summary, powerfactor and efficiency reports; provides the ability to create customizable reports

Meter Bundles – Additional meters can be added to the license available in the following bundles: 10 meters, 50 meters, 100 meters, 500 meters

Connectivity
Log data from Allen-Bradley hardware or third-party devices using RSLinx® Classic or OPC

- Supports connectivity to Allen-Bradley PowerMonitor hardware, overload relays, motor protection devices, EEMs, and PLCs via RS-485, EtherNet/IP™, DeviceNet™, ControlNet™, RIO pass-thru, optical and modem
- These communications are available through RSLinx drivers or OPC connectivity for third-party devices
- FactoryTalk Directory support
- FactoryTalk Live Data support

Configuration
Web-based application simplifies configuration

- Configure Allen-Bradley PowerMonitor power meters
- Configure Water, Air, Gas, Electric, Steam (WAGES) or other energy meters
- Configure manual meters for manual data entry (useful for entering in production data)
- Configure groups and tree structure to simulate organization or department schema
- Allocate meters to groups for cost allocation
- Create rate schedules to replicate energy bills
Monitoring and Reporting
Capture a variety of data to support load-profiling, cost-allocation and billing analysis

- Log power and energy data from Allen-Bradley PowerMonitor meters, overload relays and motor protection devices
- Log energy usage, flow, temperature and pressure from PLCs or third-party devices
- Log production data manually or from a PLC
- View real-time data
- View and trend historical data dynamically or within custom reports and charts
- Compare alternative rate schedules to analyze potential cost savings
- Create energy budgets and forecasts
- Establish energy savings goals and track progress based on live data

Power Quality Analysis
Better understand power quality and how it affects your facility

- Perform waveform captures to correlate phase-to-phase relationships
- Plot transients, surges and sags on ITI (CBEMA Curves)
- Display harmonics, THD, K-factor and Crest Factor
- Generate power quality charts and reports

Alarming
Create user-defined conditions to generate alarms

- Generate threshold alarms based off of any parameter being logged to the system
- Email or text alarm alerts to specified users

Security
Leverage multiple security levels to help protect your data

- Multi-user and assignable roles to allow specific data access
- Windows® Active Directory (LDAP) support for synchronized passwords
System Requirements

Minimum system requirements

  - 32- or 64-bit operating system. RSLinx Classic software version 2.57 or later is required for 64-bit OS support.
- 4 GB RAM
- 160 GB hard disk (separate disk(s) for operating system/log files and then RAID 5 for main database files preferred)
- Microsoft SQL Server 2005 SP3 or 2008, installed with mixed-mode authentication (Windows and SQL)
- Microsoft .NET Framework software, version 3.5

Client Requirements for compatibility with FactoryTalk EnergyMetrix software include the following:

- Microsoft Windows XP or Windows 7 operating systems
- Internet Explorer web browser, version 8.0
- Adobe Acrobat Reader software, version 7.0 or later is required to view FactoryTalk EnergyMetrix reports
- Microsoft .NET Framework software, version 3.5, SP1