Manage critical infrastructure, energy, revenue, reliability and power quality.

Energy and Power Management Solutions for electric utilities

The world’s largest and most advanced range of meters and software for helping electric utilities manage network level revenue metering, distribution automation and system reliability.

Energy Producers

Energy Infrastructure

Energy Consumers

Make the most of your energy™
Ready for Smart Grid?
Empowering users to make informed, strategic decisions on a daily basis

Whether you generate, transmit, distribute or consume electricity, today’s energy market is more complex than ever. With increasing demand and a scarcity of new supply resources, the need to maintain power availability and manage energy cost has taken on added importance.

Schneider Electric is proud to provide a comprehensive set of solutions to allow energy providers and energy consumers to meet the challenges of building the new Smart Grid.
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<td>Disturbance Detection</td>
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<td>Energy Efficiency Programs</td>
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<td>EPAct &amp; EISA Mandates</td>
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<th><strong>Security &amp; Critical Power Systems</strong></th>
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<td>NERC CIP compliance</td>
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<tr>
<td>Cameras, Video and Imaging</td>
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<td>Intrusion Detection</td>
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<td>Fire &amp; Life Safety</td>
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<td>Emergency Power Systems</td>
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<tr>
<td>Server racks &amp; infrastructure</td>
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<tr>
<td>Breaker Retrofits</td>
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<tr>
<td>Medium Voltage Switchgear</td>
</tr>
<tr>
<td>Motor Control Centers</td>
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<tr>
<td>Load Centers</td>
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<td>Transformers</td>
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<table>
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<tr>
<th><strong>Automation &amp; Control</strong></th>
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<tbody>
<tr>
<td>Building Automation</td>
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<tr>
<td>Process Automation</td>
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<tr>
<td>PLCs, HMIs</td>
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</tbody>
</table>
Solutions for managing revenue, reliability and operations

Energy Management

- High accuracy revenue metering for generation assets

Revenue Management

- Substation automation and intertie metering

Facility & Grid Operations

- Distribution Automation and SCADA

Reliability & Power Quality

- Advanced revenue metering at key customer locations

Internet, intranet, telephone, serial, wireless and cellular
PowerLogic® Utility Solutions
Manage utility generation, transmission and distribution assets and improve customer satisfaction with customer facing solutions.

Software

PowerLogic® Devices
Advanced revenue metering, RTU, intertie monitoring, fault detection, substation metering and critical C&I customer metering.

Network Communications
Communicate by internet, intranet, wireless, cellular, frame relay, satellite and twisted pair using multiple industry-standard open protocols.

Engineering Services
You are in good hands with PowerLogic® technical support, training, engineered solutions and system commissioning engineers. Enhance the capabilities of your team with our experts in energy consulting, power system studies, system integration, information systems and more.

<table>
<thead>
<tr>
<th>PowerLogic® Smart Grid Solutions</th>
<th>Solutions to meet the challenges of building a Smart Grid for energy providers and energy consumers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demand Response</td>
<td>At times when the grid is reaching peak capacity, demand response mechanisms can be used to meet demand requirements. Grid operators and energy suppliers can encourage their consumers to reduce electricity demand by disconnecting loads or by starting back-up generation systems. Schneider Electric is here to help suppliers and consumers build programs, develop strategies and implement demand response programs.</td>
</tr>
<tr>
<td>Emissions Monitoring</td>
<td>Energy and the environment have become top concerns for businesses. You may now be required to meet corporate environmental standards or government mandated emissions targets. To achieve these goals requires managing energy consumption and emissions in a unified way. A PowerLogic® system accounts for your overall mix of energy sources, from electricity and gas suppliers to on-site generation, applying the appropriate GHG emissions factors to each.</td>
</tr>
<tr>
<td>Grid Monitoring</td>
<td>As an energy provider, you may be required to meet new mandated reliability standards and your customers may be demanding higher levels of service. To meet these challenges you need an information system that can accurately track conditions on your grid, alert you to risks and help you quickly isolate problem sources. Schneider Electric helps you analyze conditions more comprehensively, respond to events faster and achieve higher performance targets.</td>
</tr>
<tr>
<td>Critical Power Systems</td>
<td>Power availability and reliability are among the most critical issues affecting your company’s profitability and competitiveness. In today’s electronic and digital world, the slightest power shortage, disturbance or voltage variation can have devastating consequences for your business. The challenge is to ensure safe, clean, reliable power for your facilities and business. PowerLogic® systems offer comprehensive solutions for critical power available to help you make the most of your energy.</td>
</tr>
<tr>
<td>Security Systems</td>
<td>Securing your people and assets is mission critical to the success of your business, regardless of the industry you’re in. You need to comply with security regulations, reduce risk, mitigate liability, protect revenue streams, and reduce operating costs. Schneider Electric delivers integrated security solutions that let you control your entire security landscape.</td>
</tr>
<tr>
<td>Energy Efficiency Programs</td>
<td>Improving a company’s energy performance is critical in today’s world. Efficient use and management of energy allows companies to reduce costs, build revenues and reduce risk. A comprehensive energy strategy is key to improving energy performance. PowerLogic® energy services can provide expertise and help develop a long-term energy action plan for your business.</td>
</tr>
</tbody>
</table>
User friendly and flexible software solutions.
Energy Management
Energy Analysis
Energy Efficiency
Energy Billing and Aggregation
Submetering
Energy Cost Allocation

Revenue Management
Energy Forecasting
Demand Response
Revenue Metering
Intertie Monitoring

Reliability & Power Quality
Power Factor Management
Power Quality Analysis
Emissions Monitoring
SCADA Operations
SER
Compliance Monitoring
Fault Detection

Facility & Grid Operations
Emissions Monitoring
SCADA Operations
Equipment Maintenance
Substation Automation
Outage Detection
Asset Management
Generation Management
Transformer Monitoring

Analysis Tools
Configuration Tools
ION Technology
Real-Time Monitoring
Web Portal
Libraries
Redundant Servers
Data Validation
Power Quality
Communication Drivers
Data Presentation
System Integration
Protocols
Trending
Automated Control
Data Acquisition
Reporting
Alarming
PowerLogic® Energy Profiler® Online system software
The industry’s foremost load data visualization and analysis application. This flexible, easy to use system turns customer usage data into actionable information, freely accessible to all customers and internal users.

Key Features
• Integrate data from any meter or data source
• Hosted application with user friendly web based user interface
• Branded by utilities to provide information to key accounts

Key Applications
• Energy analysis, budgeting & forecasting
• Demand response & load curtailment
• Emissions monitoring

PowerLogic® ION® EEM system software
Software that exceeds the traditional boundaries of power operations software by helping you perform wide-area analysis of events and conditions. Key performance indicators and advanced analytics help you manage risks and efficiencies by gaining unique insights into the impacts of power quality on your business and all energy assets.

Key Features
• Flexible trending & reporting
• Web based user interface
• Wide-area PQ event classification, filtering & correlation

Key Applications
• Power quality compliance
• Grid reliability & management
• Energy forecasting & normalization factors

PowerLogic® SCADA software
Combines power monitoring and energy management expertise with industry leading technology for HMI/SCADA application. The result of this combination is software that delivers a reliable and high performance monitoring and control solution to industries where reducing outages and increasing power efficiency is critical.

Key Features
• Redundant server configurations
• Flexible graphics management
• User friendly reporting & trending
• Advanced alarm management

Key Applications
• Utility scale SCADA systems
• Power monitoring & control
• Reduce operating & maintenance costs

PrimeRead software meter data acquisition
Multi-vendor, multi-network automated collection and management of metering data. The software supports a full complement of current communication network technologies and meter types, enabling the use of new technologies as they emerge.

Key Features
• Windows based architecture
• Intuitive configuration interface
• Network & database flexibility

Key Applications
• Revenue data collection
• Data validation
• Revenue meter & data management
PowerLogic® ION Enterprise® software

Complete power management solution for energy providers and industrial or commercial operations. It gives engineering and management personnel the information they need to cut energy-related costs, avoid downtime and optimize equipment utilization. This software uses a choice of industry-standard network technologies, including ethernet and wireless, to automatically collect and store data from key electrical distribution points and physical assets.

Key Features
- Data acquisition from ION devices
- Flexible real-time displays
- Trending & reporting tools
- Compatible with any Modbus device

Key Applications
- Powerlogic® ION system management
- Power & energy SCADA
- Energy & demand reporting
- Power quality analysis

PowerLogic® ION Setup system

A free meter configuration tool based on the workflow common to a utility meter shop. Provides fast, step-by-step meter configuration, presenting only the parameters most likely to need adjustment.

Key Features
- Setup Assistant - Wizard driven interface
- Off-line and remote programming
- Save data to HHF or CSV formats
- Rapid meter programming
- Local or remote firmware upgrades

Key Applications
- Manage revenue metering assets
- Program ION meters
- View real-time meter data & recorded data logs
- Meter testing & calibration

Setup Assistant Wizard

Configuring ION Meters is easy with Setup Assistant Wizard!
- Manage meter templates & programs
- Save and store meter configuration & settings
- Configure meter multiplier settings
- Configure power quality settings
- Configure meter security settings
- Program meter displays
- Program Modbus and DNP maps
- View or save data logs
- Verify field meter configurations
PowerLogic® ION8600 power and energy meter

The PowerLogic ION8600 meter, with its ability to provide high accuracy metering with a wide range of capabilities, is the most advanced socket-based energy and power quality meter on the market. Used to monitor network inter-ties, substations, and service entrances, the PowerLogic ION8600 meter is ideal for applications that need to accurately measure energy bidirectionally in all four quadrants. These meters give the utility a tool to manage complex energy supply contracts that include commitments to power quality.

Key Features
High accuracy measurements meet ANSI C12.20 Class 0.2 standards
Power Quality monitoring & compliance monitoring
MV-90 Integration
Integrated Ethernet communications and web pages
Multil-port, multi-protocol communications
ION Programmability allows you to create custom metering solutions

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<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>Transient Flicker Waveform Capture at 25% samples/cycle</td>
<td>5 Port, IR + 4, Modern, Ethernet, 2 Serial, Modbus Master – RTU functionality</td>
<td>Wind Farms, Critical Interties, Compliance Monitoring</td>
</tr>
<tr>
<td>B</td>
<td>Voltage Sags, Voltage Swells, Harmonics, Symmetrical components</td>
<td>3 Port, IR +2, Modern, Ethernet, 2 Serial, Gateway, MV-90 ready, Multiple protocols</td>
<td>Independent Power Producers, Renewable Energy, Multi-party interties, Substation Automation, SCADA, Large Industrial &amp; Energy Intensive Customers</td>
</tr>
<tr>
<td>C</td>
<td></td>
<td>2MB 500 Events 32 Channels</td>
<td>Centralized Generation, Distributed Generation, Monitor feeders, transformers, substations, delivery points, Commercial &amp; Industrial, Demand Response Applications</td>
</tr>
</tbody>
</table>
Revenue
- Advanced Metering
- Time-of-Use
- High-Accuracy Measurements
- Multi form factors
- Transformer Loss Compensation
- Upgradable Firmware
- Instrument Transformer Compensation

Networking & Communications
- Complete Comms
- Data Concentration
- MV-90
- Multi-user multi-level security
- Multi-protocol
- Webmeter
- Gateway Master
- RTU

Advanced Communications

Power Quality
- Power Quality Analysis
- Compliance Monitoring
- Digital Fault Recording
- Flicker, harmonics, transient detection, sag/swell, waveform capture

Programming
- Patented ION Technology
- Breaker & one-half
- Energy Totalization
- Coincident Peak
- Net to Grid
- Energy Theft Detection
- Sequence of Event Recorder
- Outage Management

ION Setup
Handheld Reader

Ports: Fiber, Ethernet, RS-485, RS-232, Modem
Protocols: ION, Modbus TCP, Modbus RTU, DNP 3.0, MV-90, XML
Functions: Modbus Master, RTU, Gateway, Web Server, MeterMail
**PowerLogic high-accuracy energy and power quality**

- Ideally suited for use in all electrical environments and compatible with all PowerLogic software solutions.
- Standardized configuration, flexible customization, modular I/O and communications, and remote display options.
- Support for international utility standards, form factors and protocols.

```
<table>
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<th>Features</th>
<th>ION8600</th>
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<td></td>
<td>A</td>
</tr>
<tr>
<td>Inputs, outputs and control power</td>
<td>/</td>
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<tr>
<td>3-phase / single-phase</td>
<td>/</td>
</tr>
<tr>
<td>Digital in and out / analog in and out</td>
<td>16 / 4</td>
</tr>
<tr>
<td>Power supply options</td>
<td>AC/DC</td>
</tr>
<tr>
<td>Power and energy measurements</td>
<td></td>
</tr>
<tr>
<td>Voltage, current, frequency, power factor</td>
<td>/</td>
</tr>
<tr>
<td>Power, demand</td>
<td>/</td>
</tr>
<tr>
<td>Energy / time-of-use (energy per shift)</td>
<td>/</td>
</tr>
<tr>
<td>IEC / ANSI energy accuracy class (% of reading)</td>
<td>0.2</td>
</tr>
<tr>
<td>Loss compensation</td>
<td>/</td>
</tr>
<tr>
<td>Power quality analysis</td>
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<tr>
<td>EN50160 compliance reporting / IEC 61000-4-30 Class A standard</td>
<td>/</td>
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<tr>
<td>Flicker measurement</td>
<td>/</td>
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<tr>
<td>Transient detection / disturbance direction</td>
<td>/</td>
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<tr>
<td>Sag/swell monitoring</td>
<td>/</td>
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<tr>
<td>Harmonic distortion: individual / total</td>
<td>/</td>
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<tr>
<td>Uptime (number of 9’s) calculation</td>
<td>/</td>
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<tr>
<td>Waveform capture</td>
<td>/</td>
</tr>
<tr>
<td>On-board data and event logging</td>
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</tr>
<tr>
<td>Trending / forecasting / billing</td>
<td>/</td>
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<tr>
<td>Minimum / maximum</td>
<td>/</td>
</tr>
<tr>
<td>Events and alarms with timestamps</td>
<td>/</td>
</tr>
<tr>
<td>Timestamp resolution (seconds)</td>
<td>0.001</td>
</tr>
<tr>
<td>Computer-serial time sync. / Ethernet NTP time sync.</td>
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<tr>
<td>GPS time sync.: serial / IRIG-B / DCF-77</td>
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<tr>
<td>Setpoints, alarms and control</td>
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<tr>
<td>Log alarm conditions / call out on alarm</td>
<td>/</td>
</tr>
<tr>
<td>Trigger data logging / waveform capture</td>
<td>/</td>
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<tr>
<td>Trigger relay or digital output</td>
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<td>Special features</td>
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<tr>
<td>Custom programming: arithmetic / boolean / modular</td>
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<tr>
<td>Downloadable firmware</td>
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<td>Communications</td>
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<td>Ports:</td>
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<tr>
<td>Ethernet 10BaseT / 10BaseFL / 100BaseTX / 100BaseFX</td>
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<tr>
<td>Ethernet-to-serial gateway</td>
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<tr>
<td>Telephone modem</td>
<td>/</td>
</tr>
<tr>
<td>Modern-to-serial gateway</td>
<td>/</td>
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<tr>
<td>Infrared</td>
<td>/</td>
</tr>
<tr>
<td>RS485 / RS232</td>
<td>/</td>
</tr>
<tr>
<td>Web server / email / SNMP / XML</td>
<td></td>
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<tr>
<td>Protocols: Modbus / DNP / MV-90 / DLMS</td>
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</table>

1 This is not a complete list of meter models, features and specifications; please refer to the PowerLogic website, catalog, technical data sheets or product brochures for more detail.
# PowerLogic high-accuracy energy and power quality metering for every distribution point

## Features

- Inputs, outputs and control power
- Protocols: Modbus / DNP / MV-90 / DLMS
- Ports: Ethernet 10BaseT / 10BaseFL / 100BaseTX / 100BaseFX
- Communications
- Custom programming: arithmetic / boolean / modular
- Trigger relay or digital output
- Trigger data logging / waveform capture
- Log alarm conditions / call out on alarm
- Setpoints, alarms and control
- GPS time sync.: serial / IRIG-B / DCF-77
- Timestamp resolution (seconds) 0.001
- Events and alarms with timestamps
- Minimum / maximum
- Trending / forecasting / billing
- On-board data and event logging
- Waveform capture
- Uptime (number of 9's) calculation
- Harmonic distortion: individual / total
- Sag/swell monitoring
- Transient detection / disturbance direction
- Flicker measurement
- EN50160 compliance reporting / IEC 61000-4-30 Class A standard
- Loss compensation
- Specifications represent maximum capabilities with all options installed; some options are not available concurrently.  
  2 ION8600, ION7650, ION7550 offer Modbus Master capabilities.

### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>ION7650</th>
<th>ION7550</th>
<th>ION7350</th>
<th>ION7330</th>
<th>PM820</th>
<th>ION6200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy accuracy (%)</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>Energy / time-of-use</td>
<td>20 / 8</td>
<td>20 / 8</td>
<td>8 / 8</td>
<td>8 / 8</td>
<td>18 / 8</td>
<td>2 /</td>
</tr>
<tr>
<td>AC/DC</td>
<td>AC/DC</td>
<td>AC/DC</td>
<td>AC/DC</td>
<td>AC/DC</td>
<td>AC/DC</td>
<td>AC/DC</td>
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<tr>
<td>Voltage, current, frequency, power factor</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Power and energy measurements</td>
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<td>AC/DC</td>
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<td>AC/DC</td>
<td>AC/DC</td>
<td>AC/DC</td>
<td>AC/DC</td>
</tr>
<tr>
<td>RS485 / RS232</td>
<td>Infrared</td>
<td>Modem-to-serial gateway</td>
<td>Telephone modem</td>
<td>Ethernet-to-serial gateway</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Model Comparison

- ION7650: Advanced revenue metering, energy metering, and power quality analysis
- ION7550: Basic sub-metering
- ION7350: Midrange energy metering and power quality analysis
- ION7330: Power, demand
- PM820: Power and energy measurements
- ION6200: Basic sub-metering
Unique services that maximize the value of your energy assets

Energy Consulting and Engineering Services
Schneider Electric offers a comprehensive set of Square D® Engineering Services associated with electrical distribution systems, energy and power management systems and energy efficiency. Together, we can help you reduce energy costs, optimize equipment utilization and improve reliability of your system. Whether you need integration to provide off-the-shelf functionality for a simply powerful configurable system or a tailored system designed specifically for your unique requirements. You’ll get more with Square D Engineering Services and our network of qualified power system experts.

Power System Engineering
Our nationally recognized Square D® Power System Engineering professionals have proven problem solving skills, extensive utility and industrial experience and comprehensive power system expertise to identify opportunities for improvements to complex energy and power-related issues.

Power System Studies
- Arc Flash
- Short Circuit and Time Current Coordination Studies
- Power Quality, transient disturbances, harmonics and power factor correction
- Power System Assessments & Design Services
- Relay Design & Applications
- Grounding & Ground Fault Systems
- Code Compliance (ITIC/SEMI, F47 Compliance, IEEE519, Others)

Industrial Energy Consulting
The Total Energy Control™ group energy studies at differs from one-time energy audits. Our certified energy managers work with energy-intensive facilities as a trusted partner to deliver a comprehensive Energy Action Plan. The plan integrates all three areas affecting energy efficiency for a total energy strategy – procurement (gas and electricity), demand management as well as process and utility systems.

System Integration
Our Square D® Engineering Services solution specialists can work with you to design or upgrade your existing system to best achieve your energy and power management objectives and informational needs. With expertise in electrical systems, communications, and automatic control systems, we can integrate, install and commission your system for optimal performance.
- System Design
- System Integration
- Startup & Commissioning
- Custom Graphical Interface
- Turnkey Project Management
- On-site training
Power System Automatic Controls

Square D® Power System Automatic Controls are a total solution approach that includes control design, programmable controller logic and supervisory software functions tailored to provide user interaction, digital alarming for extremely fast response, graphical animation and the exact amount of flexibility that you need.

Here are some examples:
- Automatic Throwover Schemes - provide automatic selection of available utility or generator sources to maintain service continuity to connected loads.
- Load Shedding Schemes - control peak demand levels or ensure service continuity to critical loads.
- Load Preservation - fast acting sophisticated control systems designed to stabilize critical power systems to greatest extent possible by monitoring frequency and power sources from utility plus generation capacity versus total circuit load.
- Breaker sequencing - operate breakers in accordance with user specified sequences and time delays such as bringing large motors on-line across several billing kW demand periods to avoid demand penalties.
- Lighting Control - Controlling lights during non-occupancy periods can significantly decrease energy costs as well as defer replacement costs of lamps and ballasts by reducing annual burn hours.

Engineered Solutions
- Enclosures - Simplify retrofit installations with pre-wired factory assembled enclosures that include documentation for quick installation.
- Sequence of Events Recording - Qualitative and time-accurate information with precise 1 ms event time stamps aid to quickly pinpoint the cause of a disruption in service in very large, complex power systems.
- Custom Software - Supplement existing product capabilities with capabilities such as monitoring piped utility pulses, OPC and database integration with other applications, tailored reports and web pages.
- Emergency Power Supply System Reporting – Provides conclusive equipment reliability results regarding the health and status of automatic transfer switches and generators during EPSS exercise test.
- Active Pager Module – PowerLogic system alarms can be automatically sent to alphanumeric pagers, mobile phones and PCs can be performed for consolidated or filtered with flexible user paging schedules.
- WAGES (water, air, gas, electric, steam) Monitoring - Offers the ability to get information for electrical and piped utilities.
- Enterprise Energy Management Service - Data source integration services for PowerLogic ION EEM software offering that unify energy and emissions information from other PowerLogic systems, SCADA systems, building and process automation systems, utility billing systems, weather services, spot-market energy pricing feeds, and enterprise business applications.
- Monitor battery systems and control power - Ensure that the control power source in a substation is available when needed to protect your system.

Technical Support

Square D® PowerLogic® Technical Support offers you more than just troubleshooting assistance for your energy and power monitor system. In addition to free technical support, we also offer Priority and Service Agreements for a higher level support. Our e-Service is a remote hassle-free service that allows us to provide individualized service of your PowerLogic energy and power management system. By simply connecting to Square D PowerLogic technical support, you can have system maintenance and analysis, in short notice.

Training

PowerLogic® Management University Training is where knowledge saves you money. Our courses empower you to more fully utilize your energy and power management system, improve your energy management skills and make you more knowledgeable in system administration and operations of your PowerLogic systems.
Schneider Electric Utility Solutions

Schneider Electric, leveraging the power of our global brands, offers a comprehensive range of solutions to its utility customers. From performing comprehensive audits to understand how energy is consumed in a facility, to managing billing and cost allocation across a single-site or multi-site enterprise, to sustaining maximum performance levels with responsive controls, Schneider Electric Utility Solutions are committed to helping you reduce energy consumption from 10 to 30%.

Energy Management

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