

# Square D<sup>®</sup> Submetering Solutions



 **SQUARE D**

by Schneider Electric

# Meet energy requirements with annual energy reporting. Optimize return on investments.

## The Square D® PowerLogic® advantage

Square D® PowerLogic® submetering solutions offer more than just basic energy metering. With complete measurement and verification information our reliable PowerLogic systems will help you make the most of your energy, by delivering accurate and timely energy information. It is ideal for office properties, retail facilities, government, and institutional organizations. The Square D brand is known for quality, and over a 100 years of electrical distribution expertise. With the industry's broadest range of quality products and solutions, Square D submetering solutions are the logical choice for your energy landscape to achieve dramatic energy cost savings and a high return on investment.

When utility costs can exceed 30% of your overall operating expenses, knowing when, where and how your operation consumes energy is vital. From tracking actual energy and utility usage, through implementing intricate energy management and power purchase agreements, you can rely on us to provide:

- **Quality** – Designed by power system experts, PowerLogic products are manufactured for reliable operation in demanding electrical environments.
- **Accuracy** – PowerLogic® metering meets and exceeds industry standards and accuracy certifications.
- **Innovation** – Unique reporting, analysis and integration capabilities that make them an ideal fit for a single facility or a global enterprise.
- **Scalability** – flexible systems leverage existing investments and grow to accommodate changing needs
- **Economical** – Supported by an extensive distribution network and offering a rich combination of features in multiple easy to spec/install and integrate form factors, a PowerLogic submetering solution is an excellent choice in retrofits and new construction.
- **Support** – Locally supported by your Square D/Schneider Electric distributor partners and technical specialists, combined with Square D's second to none, national 24/7 technical support we are your number one resource for your energy efficiency needs.



Schneider Electric, the global specialist in energy management, offers integrated solutions that make energy safer, more reliable, efficient and productive.



## Submetering Solutions for Office Buildings

Success in today's commercial property market means maximizing profitability, controlling operating expenses in order to attract and retain top-notch tenants. Whether you are designing a new building or want to reduce energy costs in an existing structure, we have a solution to meet your energy efficiency plan for your office properties.

Whether your plan is tenant metering and billing or an advanced energy management solution, our PowerLogic products and software can deliver the information and control, you need to achieve your unique goals. It can help you simplify processes, increase occupancy rates, build long-term customer relationships, lower energy costs and manage risk by allowing you to:

### Enhance Profits

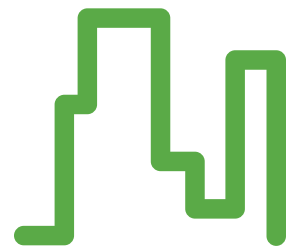
- Reduce energy spend by 25% or more and increase net operating income
- Lower capital expenses with better utilization of your current infrastructure
- Enable best practices and improved operations & maintenance procedures
- Increase power system uptime through root cause analysis of power quality issues
- Remove electricity budgeting guesswork, lower administrative costs and reduce data input errors

### Measure Building Performance

- Measure and track key performance indicators, such as watts/sq foot, occupancy, total/tenant load and common area costs
- Quantify the financial impact of conservation measures that won't adversely impact tenants
- Encourage energy efficient behavior and measure the success of savings initiatives
- Benchmark efficiency against a database of industry statistics

### Reduce Financial Risk

- Evaluation and spec with Square D Engineering Services can give you the best solution for your budget
- Simple installation and easy retrofit provides lower up front investment
- Accurate tenant billing



Buildings



## Tenant Metering Solutions for Retail

Being profitable in today's market means controlling expenses and attracting long-term, quality tenants. An energy and power management solution from Square D/Schneider Electric can help you do both. Whether you manage a nationwide chain or a single multi-use site, PowerLogic meters and software deliver the essential information you need to reduce expenses and enhance profits. Unlike traditional sub-metering products which must be manually read or lack efficient sub-billing software, a PowerLogic system offers you an end-to-end advanced solution at a low-cost and offers a high-return on investment. You can quickly, easily and cost-effectively allocate individual occupant electrical usage and bill tenants for their energy usage.

### Attract high-quality, long-term tenants

- Offer lower leasing costs through improved conservation measures
- Empower tenants by sharing energy information over the internet
- Improve power system uptime with power quality and equipment monitoring
- Provide environmental leadership with documented energy consumption reductions

### Reduce expenses

- Allocate costs according to actual energy used, instead of just by square footage
- Implement demand control and gain insights into how to reduce energy use in common areas
- Verify utility bills and eliminate errors

### Easy to specify, purchase and install

- Compact size, socket, panel and rail-mount form factors and pre-assembled enclosures allow simpler installation in retrofits and new construction
- Easy to configure and use
- Outstanding quality and reliability
- Industry standard communication
- A low cost per metering point



Retail

# Simple Square D solutions can LEED you in the right direction.

## Keeping It Green - Economically

Everyone is looking for solutions to become LEED certified and reduce our demand for energy.

**LEED**, (Leadership in Energy and Environmental Design) was developed by the U.S. Green Building Council as the nationally accepted benchmark for high performance green buildings. LEED promotes a whole-building approach to sustainability by recognizing performance in five categories: sustainable site development, water savings, energy efficiency, materials selection, and indoor environmental quality.

How do you invest in reducing energy consumption and get LEED certification without breaking the budget? A PowerLogic energy and power management system will help. Collectively, energy efficiency comprises approximately 25% of all possible credits awarded through the LEED certification process. By employing a full-featured PowerLogic system, you can implement a wide variety of energy efficiency initiatives essential to attaining LEED certification, and gain measurable reduction of costs leading to an immediate return on investment.

- **Metering Requirements** - Benchmark the energy efficiency of your existing building and its systems to verify that new designs meet minimum energy performance reductions per ASHRAE 90.1 standards.
- **Optimize Energy Performance** - Use your PowerLogic system to monitor all utilities and help you decide when to switch to alternative sources of power, shed loads or net meter power, back to the utility.
- **Water Efficiency** – Easy integration of data from water meters enables a PowerLogic system to measure and validate the results of water conservation efforts.



Renewable Energy Solutions



## Submetering Solutions for Institutional and Government Facilities

Energy is one of the most easily controlled expenses in your organization, with savings of 25% being readily attainable. The benefits can pay more than just financial dividends. Meet your energy efficiency planning goals, measure and reduce your energy consumption with a PowerLogic System. It can help you translate energy expenditures into actionable information, that you can use to:

- Reduce costs and improve efficiencies.
- Decrease maintenance costs and building system failures
- Extend equipment life
- Comply with government mandates and initiatives such as ENERGY STAR building performance certification from the Environmental Protection Agency (EPA)



Web-enabled PowerLogic systems enable you to gather data, aggregate and analyze it, then give everyone in your organization a clear report of the information on how you're achieving the energy efficiency goals. Powerful and user-friendly PowerLogic meters and software can also provide the tools you need to:

- Integrate with existing meters and building automation systems to measure total building performance
- Benchmark the performance of individual buildings and facilities
- Manage and respond to utility curtailment events with onsite generation or changes in equipment scheduling
- Monitor your organization's greenhouse gas emission levels and develop action plans to help reduce them
- Monitor renewable energy sources such as wind generation and solar
- Purchase bulk energy contracts to cover multiple locations in deregulated markets
- Make informed energy procurement decisions



### EPAct 2005 Compliance

Section 103 of the Energy Policy Act of 2005 mandates that real-time, advanced meters be installed in all federal buildings by 2012. In addition, section 102 mandates an annual energy reduction of 2% per year 2006 thru 2015. A PowerLogic energy and power management system is a scalable, long-term solution that will help your federal government agency achieve compliance with section 103 of the EPAct now, while providing the foundation for sustained savings into the future, and identify the energy savings opportunities needed to comply with section 102. An intimate knowledge of the act, combined with our complete portfolio of consultative design, selection, and installation services, ensures that your PowerLogic solution will fulfill the Department of Energy's Federal Advanced Metering Guidance Document requirements.

# Quality products backed by over 100 years of experience, we deliver results

## Success Stories

### A Manhattan Property Takes Charge of Energy Use

A New York-based property management company came to us to help them to meet their corporate energy policy, implement best operating practices and reduce overall energy consumption. An EPA Energy Star Buildings Partner, they added metering to key building systems, in conjunction with their existing building automation systems, in order to identify meaningful opportunities for facility upgrades with a verifiable return on investment. With information collected from HVAC components, internal and external lighting systems and other high-demand systems, they implemented an effective reduction strategy. First they improved system start-up procedures to lower peak demand, next they altered the timing of their morning HVAC operation to maximize the efficiency of heating and cooling systems and, finally, they modified their best practices to eliminate costs associated with running systems at full capacity on weekday holidays. To date, our system has helped to ensure their EPA rating and has enabled them to reduce consumption by 15%.

### Power Monitoring Keeps Mountain Ski Resort Online Year-Round

With the resort's growth and expansion, came increasing power demands. For starters, a large 65-room hotel was added to the property. But the expansion of the ski hills was what the team most concentrated on. In addition to ski lifts and the other electrical devices needed to keep the hills operating, there are high-powered snow guns needed to manufacture enough fresh powder to enable skiing when the weather isn't cooperating. To control its load-shedding program, the resort turned to Schneider Electric and its Square D® engineering services for a customized power monitoring solution. The backbone, Square D® PowerLogic® System Manager™ software, runs from an application server that provides the visualization of the electrical system. Connected to the PowerLogic software and circuit monitors at eight different transformer and distribution centers on the property. The solution now allows them to control their power and reduce energy load during peak times. The resort is overall more conscious of energy management.

At Schneider Electric we have many success stories to tell. If you would like to read more about these success stories and many others, visit our customer case studies at [PowerLogic.com](http://PowerLogic.com)



**Why should you choose PowerLogic technology?**  
Systems can quickly pay for themselves by helping you to reduce costs, enhance profits, and boost asset values:

- Recover energy costs and improve cash flow with automated billing
- Lower capital expenses through better utilization of your current infrastructure
- Streamline maintenance and increase up time and identify the root causes of power quality problems
- Simplify your energy budgeting / forecasting and reduce volatility
- Evaluate energy suppliers to ensure the best rates

# Engineering Services Providing Energy Solutions

Square D is renowned for providing exceptional quality and service. Skilled Square D professionals use their technical expertise and industry knowledge to optimize your PowerLogic system to the unique requirements of your operation. We offer expert advice and guidance from the initial system selection criteria through software installation, commissioning, technical support and product training. We work with you to understand your performance goals, then design a PowerLogic system solution tailored to your submetering objectives. Put our knowledge to the test.

## 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 University 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.

## Third Party Data Integration

Flexible PowerLogic meters and software offer a wealth of integration capabilities so you can gain additional value from your existing infrastructure. Depending on your needs and the PowerLogic system you choose, data from water and gas meters, PLCs, HVAC systems and others can be incorporated into your PowerLogic energy and power management system.



## Services

- 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.
- 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.

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