



# Top 5 Benefits of a Power Monitoring System

Know the advantages of building a comprehensive, flexible, and integrated energy and power management system.

**You can't change what you can't see.** Easily access energy data through intuitive dashboards and reports to improve efficiency and reduce costs. Monitor, analyze, and control your energy usage with confidence.

**PowerLogic™ and EcoStruxure™ power and energy management solutions** can unlock insights and capabilities such as:

1. Monitor and manage energy use and aggregate data from all energy assets
2. Access real-time and historical data with easy-to-use analytics
3. Maximize power reliability and availability
4. Identify and analyze power quality and use event forensics to diagnose the causes of disturbances and disruptions
5. Go even further with more plug-and-play digitalization tools within the comprehensive power and energy management portfolio



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## 1 Energy Management and Monitoring

Tracking electrical system and equipment performance helps to improve operational efficiency. With a comprehensive power monitoring system, you can track and respond to power anomalies and gain valuable information about how your electrical distribution system delivers power to equipment and critical loads.

## 2 Access real-time data and analytics

Effectively managing electrical equipment can boost operational efficiency and help meet sustainability targets while improving your bottom line. With access to real-time data and analytics, you can manage your maintenance plans effectively:

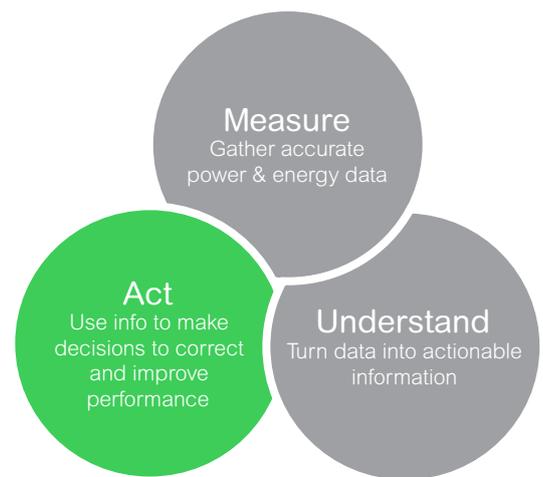
- Avoid overloading existing equipment, thus extending equipment lifespan and reducing maintenance costs
- Verify utility bills and allocate expenses to ensure accuracy and encourage responsible usage
- Benchmarking is streamlined with automated, easy-to-read energy consumption reports to track regulatory compliance and effectiveness of sustainability initiatives

Protect your people and your equipment by reducing risk of arc flash. Mitigate **arc flash** risk by installing continuous monitoring devices in power distribution panels to detect arc flashes and pair with relay controls to quickly open circuits to help prevent an electrical explosion.

## 3 Maximize power reliability and availability

Proactively monitor your sensitive power equipment. Effectively monitoring both your primary electrical infrastructure and your backup power systems ensures you always have power when you most need it.

Power monitoring and electrical system performance tracking helps to enhance system reliability. Reliable power means minimized equipment malfunctions, power spikes, and shutdowns, allowing you both to save money and get peace of mind knowing that your facility is well-monitored. Maximize your facility uptime and pro-actively optimize your power network.



**80%** of companies are overcharged on utility expenses.<sup>1</sup>

**5-10** arc flash events occur daily in the U.S.<sup>2</sup>

1. [National Utilities Refund](#)  
2. [OSHA Arc Flash Handout](#), U.S. Occupation Safety and Health Administration



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## Power quality and event forensics

With PowerLogic systems, you can identify and analyze power quality problems like voltage sags, harmonics, etc. in order to ensure your electrical systems run smoothly. In the instance of a power disturbance or disruption, diagnosing the root of the issue is critical for recovery and prevention.

PowerLogic power quality metering and root cause analysis can help show cascading effects of events. With Disturbance Direction Detection, even the direction of a disturbance event at individual meter locations can be identified and analyzed.

Schneider Electric has resources to optimize the full power quality lifecycle from metering to software to correction hardware to services and customer support.



### Did you know?

Poor power quality causes annual global losses of up to \$300 billion (US).<sup>4</sup>

And, a 0.1 second interruption can be just as costly as a one-hour interruption.<sup>5</sup>

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## Go further with a comprehensive power and energy management portfolio at your fingertips

Integrating an electrical power management software (EPMS) with other operational software and advisory systems helps maximize data value and brings power distribution into decision-making across the business

- Choosing an IoT-enabled, plug-and-play solution with open, interoperable, cybersecure architecture, like **EcoStruxure**, is critical for the success of your digitalization journey.
- Power monitoring systems help you meet **ISO 50001** standards by providing granular data for accurate performance indicators, enabling real-time tracking and alerts for deviations, and provide you the ability to verify the impact of your energy-saving measures.
- Add in digital twin technology via **ETAP** to provide a virtual representation of a physical electrical system, capturing real-time data and providing valuable insights with the help of your **PowerLogic power meters**. It enables seamless collaboration, accessibility, and cloud connectivity technologies, empowering users to optimize design, simulate alternatives, ensure compliance, monitor performance, and adopt predictive maintenance.

Schneider Electric will partner with you on every aspect of your project from design to construction to training, maintenance, and support for the entire service life of your system to offer visibility into real-time conditions and help diagnose issues to mitigate risk and improve efficiency.

4. World Bank Group, 2019. "Underutilized Potential: The Business Costs of Unreliable Infrastructure"

5. European Copper Institute, 2015. "Introduction to Power Quality"

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