



POWERSIDE®

Power Quality Monitoring Solutions for Data Centers

Advanced power quality monitoring that's
purpose-built for always-on computing environments

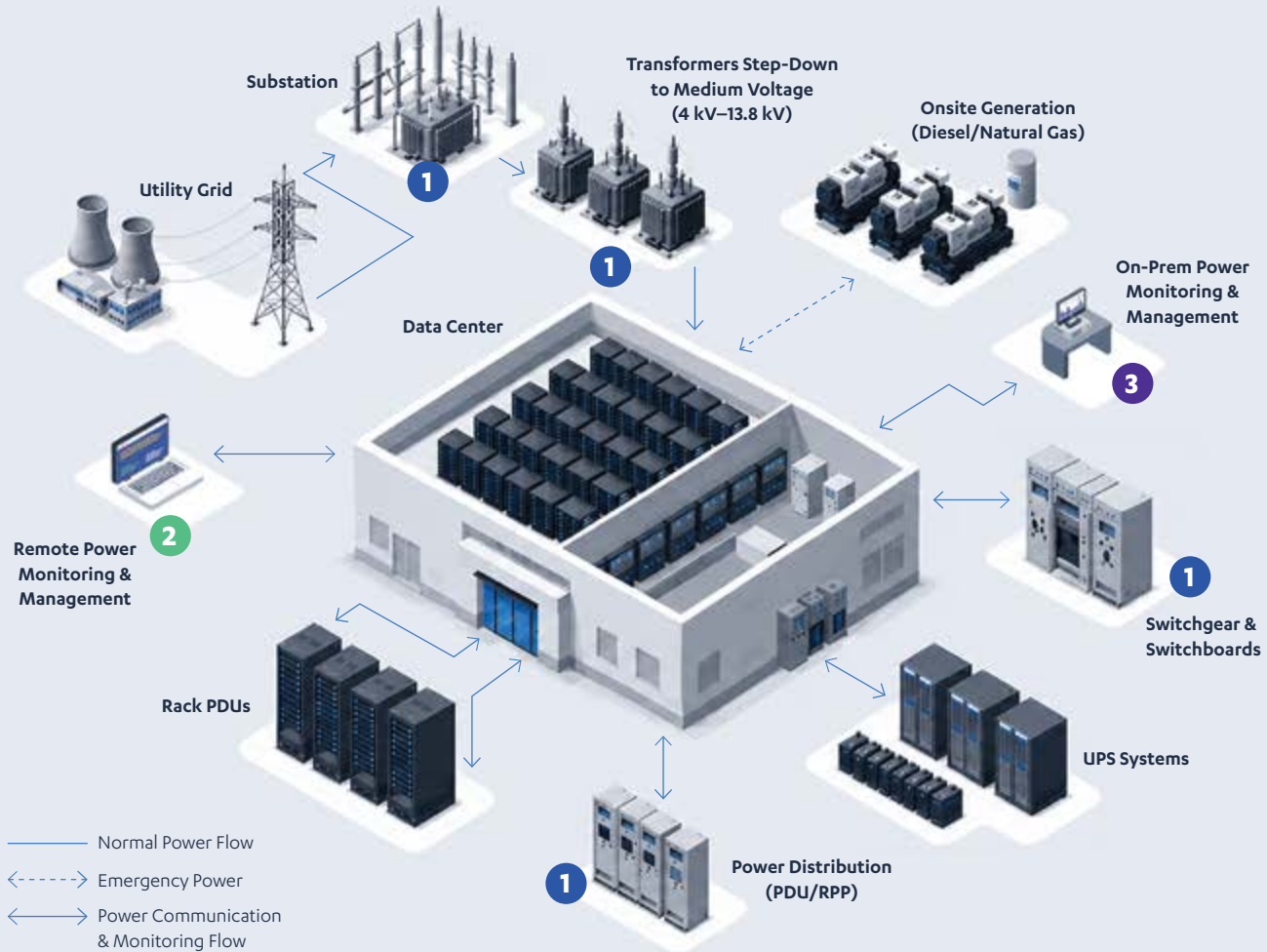
Get 24/7 Visibility for Always-On Data Centers

Powerside gives data centers the visibility needed to uncover hidden power quality issues before they can impact your operations.

With precision monitoring and utility-grade analytics, we equip you with the tools to identify anomalies, diagnose root causes and stay ahead of power quality challenges.



Power Quality Monitoring for Data Centers



1

PQube® 3 Power Analyzer

Ideal for mission-critical systems from switchgear to cooling, PQube 3 delivers 24/7, high-fidelity data on every electrical event impacting your facility.



2

QubeScan Monitoring Software

Designed for 24/7 remote power quality visibility, QubeScan pulls insights from every power quality analyzer in your facility into one intuitive platform.



1

PQ Edge® Power Quality Monitor

Made for cost-effective monitoring in high-tech facilities, PQ Edge offers dependable, straightforward tracking of essential power quality metrics at the machine level.



3

PQView® Data Concentrator & Analysis Software

Built for secure, on-prem monitoring, PQView integrates insights from multiple data sources to provide a holistic, device-agnostic view while supporting compliance.



Types of data centers we support

Enterprise

Colocation

Hyperscale

Modular

Edge

Power quality monitoring applications

Switchgear

Auto transfer switches (ATS)

Power distributing units (PDUs)

Cooling systems

Uninterruptible power supply (UPS)

Transformers

Genset

Our monitoring solutions combine precision with customizable analytics — you can build the ideal system for your facility.

Analyzers & Monitors

Find the Ideal Monitoring Solution for Your Facility

PQube® 3 Power Analyzer

The gold standard in power quality monitoring

Data center operations depend on reliable, high-quality power. Without proper equipment, power quality issues often go unnoticed and unaddressed until they cause significant damage. To ensure consistent uptime and efficiency, data centers need monitoring tools that can identify, diagnose and alert operators to power issues before they result in an outage.

The PQube 3 Power Analyzer delivers precision power quality monitoring twenty-four hours a day. With utility-grade measurement capabilities, advanced diagnostics and customizable reports, it provides the visibility and insights needed to stay ahead of emerging power quality issues.

PQ Edge® Power Quality Monitor

Cost-effective, machine-level power monitoring

Data centers come in all types and sizes. For small to mid-sized facilities, finding affordable solutions to protect critical equipment is key. That's where the PQ Edge Power Quality Monitor excels.

While PQube 3 analyzers offer ultra-precise measurements and comprehensive analytics, PQ Edge focuses on only the most essential power quality metrics for your operations. With easy installation and straightforward reports, PQ Edge delivers dependable power quality monitoring in a cost-effective package.



Benefits

- Support facility uptime and resilience
- Extend equipment life and prevent costly outages
- Inform and accelerate troubleshooting
- Reduce wasted energy and avoid utility penalties



Benefits

- Keep tabs on essential power quality metrics
- Right-size monitoring capabilities to operational needs
- Easily install directly on equipment
- Access real-time, straightforward reports from anywhere

Applications

Utility main	Switchgear	Automatic transfer switch (ATS)	Main switchboard	Power distributing units (PDUs)
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Monitoring Software

Enjoy Flexible Options for Remote or On-Prem Monitoring

REMOTE MONITORING

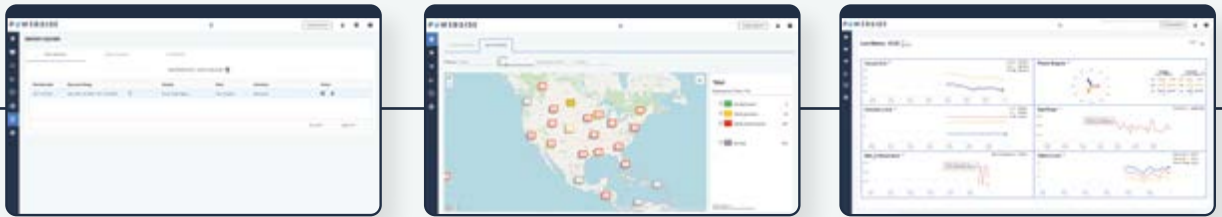
QubeScan Monitoring Software Put real-time power quality data at your fingertips

Always-on computing environments require 24/7 visibility. With multiple systems drawing high volumes of power across the facility, data center operators need to be able to effectively monitor equipment from anywhere.

QubeScan Monitoring Software delivers remote, cloud-based monitoring for your entire PQube 3 fleet. By pulling data from all your PQube® 3 Power Analyzers into one intuitive platform, QubeScan allows you to access customizable alerts, diagnostics, and long-term trend data from anywhere.

Benefits

- Monitor live power quality metrics for rapid commissioning and diagnostics
- Visualize events and trends through one intuitive platform
- Configure alerts to identify issues before they disrupt operations
- Automate reporting for continuous health and compliance checks
- Easily compile and share data between teams and stakeholders



ON-PREM MONITORING

PQView® Data Concentrator & Analysis Software Your centralized command center for power quality monitoring

Data centers have diverse equipment and compliance needs. That's why Powerside provides flexible options for power quality monitoring, with tools fit for any hardware configuration or compliance requirement.

PQView Data Concentrator & Analysis Software provides centralized, device-agnostic insights to simplify power quality monitoring. As an enterprise-grade, on-premise solution, PQView delivers facility-wide insights through one secure and customizable system.

Benefits

- Access robust data and analytics from all your devices
- Analyze data through our intuitive interface or your own custom application
- Visualize events and trends with static or interactive charts
- Maximize security and compliance with an on-prem system
- Receive instant alerts and automatic reports on power quality performance



CASE STUDY

Helping a Data Center and Utility Work in Harmony

The Challenge

When a public utility experienced a sudden influx of flicker complaints, they needed to find and fix the issue quickly. Using a PQube® 3 Power Analyzer already installed in the system, the utility quickly diagnosed the source of the problem — an improperly sized utility capacitor bank overloaded by a nearby data center conducting load testing.

The Solution

The utility shared detailed power quality insights with the data center from Powerside's cloud-based monitoring platform, QubeScan, enabling both teams to work together to resolve the issue. Ultimately, this required the replacement of the utility capacitor bank and installation of a harmonic filter at the data center to prevent unintended strain on the grid going forward.

Challenge

Harmonic distortion impacting utility customers and data center operations

Project Type

Data center

Diagnostic Tools

PQube® 3 Power Analyzer,
QubeScan Monitoring Software



The data center was so impressed by the precise diagnostics of the PQube 3 Power Analyzer, they decided to implement these capabilities in their own facility. Working in collaboration with data center operators, the Powerside team designed and deployed a tailored monitoring solution to meet their needs.

The turnkey monitoring solution consisted of:

- Five PQube 3 analyzers retrofitted into the center's switchgear — the ideal location to monitor each circuit connected to the facility.
- High-accuracy voltage sensors and metering-class current transformers, enabling ultra-precise power quality analysis.
- Rugged outdoor antennas for dependable remote monitoring.

Once installed, the equipment began immediately uploading to QubeScan, allowing operators to access real-time power quality data from any location.



The Results

Thanks to the compact, plug-and-play design of the PQube 3, the Powerside team was able to integrate and activate the solution in a fraction of the time required by other power quality devices employed by the facility. Now, the center's engineers can remotely monitor system health, track trends and rapidly troubleshoot issues through one intuitive platform.

Beyond delivering in-depth power quality insights, the QubeScan platform also enabled the engineers to set up automatic compliance reporting and custom alerts for harmonic distortion — so their team can take action at the first sign of trouble, before an issue impacts their facility or the grid.



Stay Ahead of Power Quality Challenges with Powerside

Don't let poor power quality disrupt your operations. Learn more about how Powerside helps data centers take control of power quality and support long-term resilience.

powerside.com/industries/data-centers

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