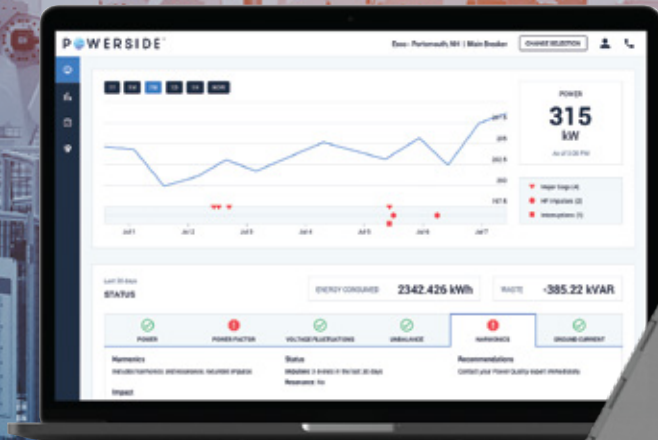


In-Site Intelligent Power System Monitoring



The Security and Alert System, for your Power!

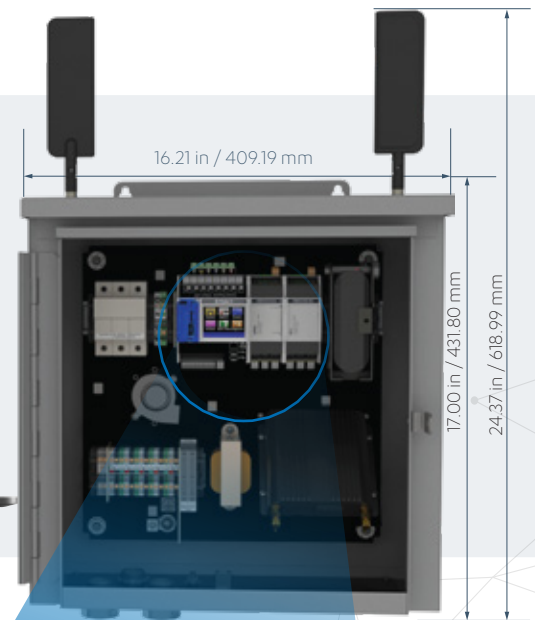
The power grid is changing. Base loads and power generation are no longer what they used to be. The number of non-linear loads and distributed generation systems has significantly increased. The result is that each year, power disturbances are now causing billions of dollars in damage.

Detect Power Disruptions, and Take Action

Powerside's new Power Intelligence™ cloud-based monitoring service delivers real-time data about your power quality. Our 24/7/365 platform provides actionable information on energy consumption, power quality trends, and power events. Our service offers a unique data-driven approach which allows you to identify power quality issues and pro-actively correct them before they diminish profitability, create downtime, or cause safety issues.

Choose Powerside's monitoring service to:

- Reduce energy and operating costs
- Increase production uptime
- Prevent premature equipment wear or damage



In-Site includes the PQube 3, our award-winning power analyzer. Combining all of Powerside's expertise, with 50,000+ detection solutions installed across 50+ countries, the PQube capably detects all forms of electrical disturbances, which might hurt your bottom line.



Benefits of In-Site Monitoring and Consulting

Event Troubleshooting

Comprehensive event data for faster root cause analysis and effective corrective action planning

- Voltage swells, sags, and spikes
- Voltage and current imbalance
- Power frequency variation
- Harmonic, grid, and plant emissions
- Momentary outages
- Breaker overload and tripping
- UPS and Genset performance
- Power factor correction

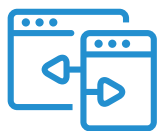
Trend Analysis and Planning

Long term data to support

- Grid degradation assessment and correction
- Event frequency, impact, and correction
- Plant efficiency management
- Data-driven Utility provider management
- Tariff optimization, demand charge reduction
- Operations optimization
- Preventative maintenance planning
- Load growth planning
- Seasonality assessment

In-Site, a turnkey power monitoring solution

Our affordable monthly subscription service includes everything you need



All hardware
and installation



Access to real-time
cloud-based monitoring



Unlimited
technical support



4 consulting hours
per year with our
Power Intelligence Experts

LIMITED TIME BETA LAUNCH OFFER

Get 3 years of service for the price of 1*

*Pay the first year and the next two are on us. Regular price \$400/month

Real impact across all industries.

In-Site intelligent power monitoring reveals critical power problems across a range of industries.

Industry	Symptom	Problem found	Why it mattered	Our solution
Food Processing	High harmonic distortion and low power factor led to operational downtime	Identified 17 orders of harmonics above the requirements of power factor IEEE std 519-2014 Table 2. The power factor below 4-10% of utility requirements, resulting in costly penalties	Process disruption and utility surcharges	A hybrid passive and active filter was installed to solve the power anomalies
Food Storage	Utility bill increased significantly when local utility switched to kVA billing	Power Factor around 0.85 with high harmonics from VFD's and lighting loads	Power Factor issues resulted in a \$4000 per month unnecessary overhead utility spend	Implemented 500kVAR detuned PowerVar w/50kVAR step resolution, to maintain an average power factor of 0.9957. ROI achieved in <9 months with \$4K month reduced utility spend
Grain Terminal	Grain elevator motor fuse failures	High harmonic distortion	Reduced lifetime of motor and Variable Frequency Drives (VFD)	Installed multi-stage capacitor bank
Gravel Yard	High power factor, generator not operating at full capacity, equipment issues, and excess fuel consumption	High voltage distortion, heavy loads, and low power factor	Fuel costs, reduced equipment life, generator capacity limitation	Deployed 400KVAR PowerVar filter bank. Decreased fuel consumption by almost 10%
Hospital	Unexpected failure of MRI machines	Range of power quality problems, varying by site	Unexpected warranty failures and costs	Customized approach, engineering and design, implemented site relevant correction equipment
Manufacturers	Unknown issues	High harmonic distortion	Reoccurring costly equipment issues and utility penalties	Deployed capacitor filter bank
Plastic Molding	Repeated failure of drives, motor, and molding machines	High harmonic distortion	Damage to equipment, process disruption	Specified and deployed an Active filter to correct harmonics
	High energy consumption	Night shift shut-down procedures not being followed	Energy waste, unnecessary equipment wear	Modified shut down procedures and created immediate ROI
Printing Services	Intermittent equipment overheating and fuses blowing	Voltage Total Harmonic Distortion (VTHD) approximately 5.5%, Total Demand Distortion (TDD) 13%, unfiltered 200kVAR on permanent fixed cap bank	Unmet process and equipment reliability. Over-correcting power factor during low load times which led to increased Bus voltage	250kVAR detuned PowerVar, decreased TDD by 5%, eliminating resonance. Mitigated leading power factor during low load. Maintaining optimal power factor prohibited utility penalties
Renewables	Unknown issues	Excessive ground current	Safety issue identified	Customer investigation and resolution
Saw Mill	Failure of capacitor bank, and main breaker tripping occurred every 6 months	Monitoring discovered the design of the capacitor bank from the original engineering study was inaccurate	Process disruption caused plant, employee, and process downtime. Contributed to unnecessary operational expenses	Fuses were resized to mitigate and correct
Welding	High harmonics and frequent capacitor bank failure	Load highly dynamic, switching every second	Caused unnecessary Utility penalty costs due to poor power factor. Resonance issues with previous capacitors	Installed 900kVAR thyristor switched detuned PowerVar. Each stage switched over 10,000k times a day. Decreased harmonics by nearly 5%

Take Advantage of our Beta Launch Offer. Contact us today.

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