

Rapidly Identify Power Quality Issues to Maximize Business Uptime

Increase customer satisfaction and reduce OPEX with analytics that matter

POOR POWER QUALITY COSTS U.S. BUSINESSES >\$145 BILLION ANNUALLY

The Electric Power Research Institute estimates power losses and poor power quality cost American businesses over \$145 billion annually. Despite the costs, utilities and their customers have limited or no visibility to underlying causes, making it hard to prevent and address costly business disruptions.

Many of them have tried to get visibility through power meters but the information comes late and lacks the detail needed to pinpoint the source of power quality issues.

We developed a better approach.

A NEXT-GENERATION APPROACH TO IMPROVE POWER QUALITY

Ubicquia's Power Quality as a Service (PQaaS) combines 24/7 monitoring, advanced distribution transformer sensor technology, high-speed communications, and data science to **provide visibility into power quality issues.**

Advanced analytics deliver **real-time data on 24 parameters**, including power quality issues:

- Imbalances
- Sag/swell
- Transients and harmonics

That data is analyzed by UbiVu® AI data models and a team of grid analysts to gain insights into common power quality problems, helping you predict and pinpoint issues on the grid and within customer facilities.

IDENTIFY THE LEADING CAUSES OF POWER QUALITY PROBLEMS



Reduce Power Quality Impact on Businesses

Secure customer dashboard with real-time power quality data to support load balancing and improved equipment efficiency.



Reduce OPEX and Unproductive Truck Rolls

Lower OPEX by pinpointing problems remotely, reducing unnecessary trips.



Prevent Unplanned Outages

Real-time monitoring to detect problems before they become outages.



Access to Utility AI and Data Experts

Premium tier customers supported by leading-edge predictive AI models and expert insights.

BENEFITS FOR UTILITIES

- Reduce O&M by eliminating unnecessary truck rolls and preventable, unplanned outages.
- Improve customer satisfaction with a secure dashboard and data to improve their operations.
- Pinpoint problems before they become major issues.

BENEFITS FOR BUSINESSES

- Extend equipment life by reducing stress from voltage fluctuations.
- Optimize energy usage by adjusting equipment or implementing corrective measures early.
- Reduce downtime by recognizing and addressing power quality issues before they cause equipment failure.

CASE STUDY: FLORIDA UTILITY

A critical industrial customer experienced major outages due to an unplanned equipment overload. They are now working with Ubicquia for:

Proactive Load Monitoring: Real-time analytics to identify voltage spikes.

Increased Reliability: By preventing voltage fluctuations and overloads, reducing outages, and improving stability.

Enhanced Customer Satisfaction: By delivering accurate, timely data to improve collaboration and reliability.



SOLUTION IMPLEMENTATION PROCESS



Planning

- Field engineer coordination with utility and customer
- Assess issues, goals, metrics
- Establish SLAs and contracts



Onboarding

- Dedicated project manager and field support
- Install and test sensors
- System training, report setup



Ongoing

- Scheduled reports and service-level reviews
- Automatic system updates
- Consultation with analysts

TAILORED ANALYTICS SERVICES PLANS TO MEET YOUR NEEDS

ANALYTICS SERVICES	STANDARD	PREMIUM
Smart notifications: outages, sags, swells, voltage and frequency deviation etc.	✓	✓
Early detection of issues with time series grid performance analysis	✓	✓
Personalized dashboard: real-time and historical reporting	✓	✓
24x7 monitoring	—	✓
Advanced analytics powered by AI to predict issues before they impact customers	—	✓
Storm restoration reporting to speed recovery	—	✓
Grid-level analytics to improve system reliability	—	✓
Estimation of transformer life expectancy	—	✓
Diagnostics to reduce unproductive repair trips	—	✓
API integrations to your work order and SCADA systems*	—	✓
Dedicated technical support resource	—	✓

*May be subject to additional fees.

About Ubicquia

Ubicquia® revolutionizes critical infrastructure, transforming it into intelligent systems that drive energy efficiency, bolster grid resilience, and streamline operations for utilities and municipalities. Harnessing the power of advanced analytics and AI, Ubicquia processes over 2 billion data points daily, providing insights to optimize the management of streetlights, distribution transformers, and utility poles. Its cutting-edge platforms—featuring sensors, software, and seamless connectivity—are deployed in more than 800 cities and integrated with top-tier manufacturers of streetlights, transformers, and public safety solutions. Ubicquia is headquartered in Florida, supported by a team of over 185 innovators, and holds 95+ U.S. patents.

To learn more:

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