



All our energy, in your power

Advanced Grid Visibility for Utilities

PQube[®]3e is the easiest, most cost-effective
solution for Distribution power analytics

Delivering Reliable Power is Harder Than Ever

Growth in Distributed Generation and Changing Consumption Patterns Compounds Existing Reliability Challenges



Distributed Generation

397 GWs of distributed energy resource capacity will be available to the US grid by 2025



Renewables

12 States have 100% renewable goals by 2050

11.5% of total U.S. electrical production during 1Q 2020 was sourced from wind and solar

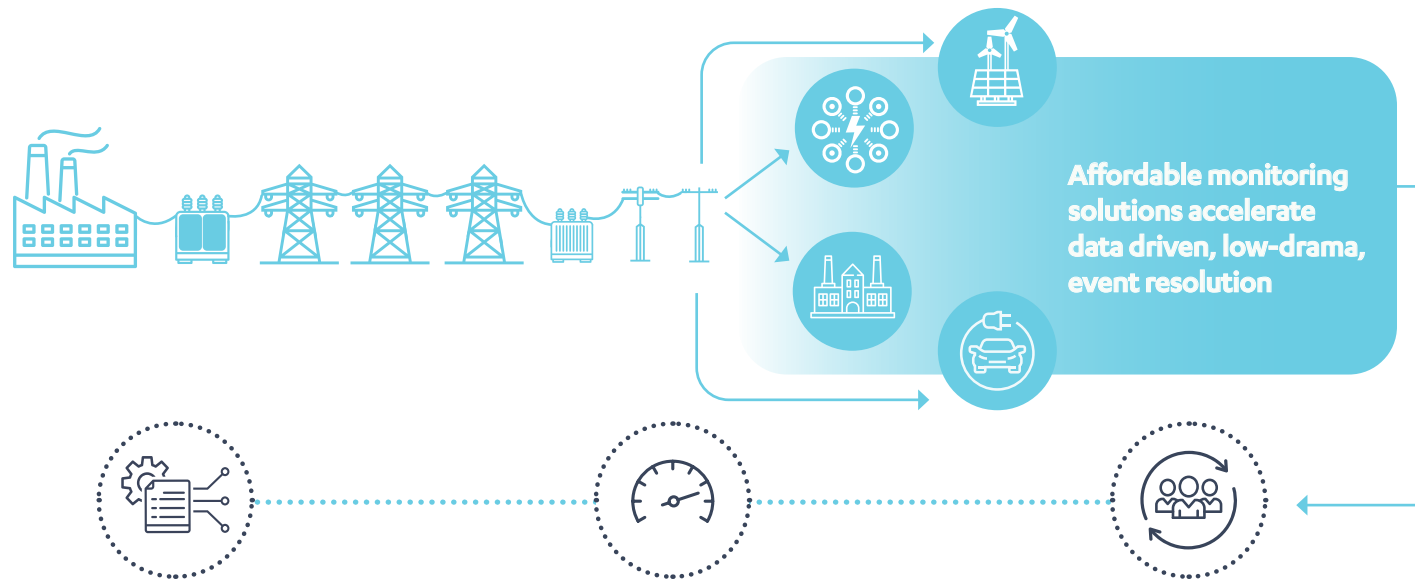


New Usage Patterns

\$42B -- global power electronics market by 2020 driven by growth in EV/HEV, motor drives and UPS

Visibility at the PCC is Critical to Manage Customer Perceptions

80% of Power Issues Originate on the Customer Side of the Meter
Utilities Need PCC Visibility to Align on Solutions



Capture Facility Data

- Customer side load & sub-load power dynamics
- Harmonic direction data
- High frequency transient detection
- Precise event capture

Accelerate Time to Resolution

- Shared data & analysis
- Unambiguous root cause analysis
- Mutually agreed recovery & mitigation plans
- Persistent visibility, with ongoing monitoring

Retain Your Best Customers

- Demonstrate commitment & transparency
- Data driven support

Utilities Also Need Better Distribution Visibility

Visibility Helps Optimize Performance, Identify Threats and Justify Capital Investments



Substation

✓ Increase Investment Yield Through Data-Justified Capital Improvements

- Increase capacity and revenue through Volt/VAR optimization
- Load variability, Harmonics & directionality
- Network pathologies e.g. lightning, arcing, sags, swells, tap changer glitches, high-frequency noise, AMI signal interference, etc

Distribution

✓ Quantify the Distribution Grid State in Real Time

- High fidelity data on MV laterals
- Loads vs capacity, power quality, transients, etc.
- DER: availability, power quality
- Microgrids: islanding, power flows

✓ Accelerate field operations with granular event signatures

Better data is essential to supporting improvement programs

PQube 3e is the Easiest, Most Cost-Effective Solution

Monitors up to Four, 3-Phase Circuits
Delivers Comprehensive Power Quality and Load Analytics

Easiest to Use

Fast installation: Din rail mount, easy wiring, and screen or pre-programming options. PQube 3e auto-detects mains frequency, circuit topology, and nominal voltage

No software required: All you need is a network connection to auto-receive actionable .GIF/CSV/Excel/PQDIF (IEEE standard) files

Seamless data integration: SNMP, DNP 3.0, Modbus, email, BACnet

Data and Reports

Automatically pushes event waveform reports directly to your email (no software) for fast analysis and corrective action planning

Fully customizable report writer: IEEE 519, ITIC curves and comprehensive trend and event data

Unparalleled Value

With comprehensive analytics and 4 circuits per device, PQube 3e may cost as low as 1/8th per circuit monitored vs. leading competitors

No more compromises with under-monitored networks and customers. With PQube 3e substations have more coverage, at lower cost



Fully compatible with PQView®

PQube 3e Power Analyzers

Cost Effective Power and Load Diagnostics for Distribution and Facilities

With the right combination of power quality monitoring, revenue grade metering and network communications, PQube 3e is an outstanding performer in cost effective distribution and facility monitoring



Comparison table

	PQube 3e	COMPETITORS			
		1	2	3	4
Multiple 3-phase circuits	✓	✗	✗	✓	✗
Harmonics (up to 50 th)	✓	✓	✓	✓	✓
Analog inputs	✓	✓	✓	✗	✓
Environmental parameters	✓	✗	✗	✗	✗
4Mhz high-frequency processor	✓	✗	✗	✓	✗
PQView® compatibility	✓	✓	✗	✗	✓
Email with event & trend data	✓	✗	✗	✗	✓
Supra-harmonics (2-150kHz)	✓	✗	✗	✗	✗
Portable & permanent options	✓	✓	✗	✓	✗
IEC 61000-4-30 Ed. 3	✓	✓	✓	✗	✓
Embedded reports	✓	✗	✗	✗	✓
Unit price index vs PQube 3e	1.0x	0.8x	1.2x	1.3x	1.9x
Price/Circuit index vs PQube 3e	1.0x	3.1x	5.0x	5.3x	7.7x

"We particularly enjoy the reasonable cost ease of setup, remote access and configuration through its web server."



"We use PQube to better understand our power generation sources and grid dynamics as we pursue our state initiative of 100% renewable energy by 2045."



"We have deployed more than 100 PQube's to monitor the Power Quality at customers and our own utility sites. We're happy with the performance and recommend it for utility applications."



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