



Put your power quality problems behind you.

Power Quality

Continuous, high-volume production manufacturers, large commercial enterprises, public facilities where staff can't work without power, and of course, essential services providers shouldn't have to think about power quality.

But you do.

Reactive power, load imbalances, voltage sags, flicker, and voltage interruptions. Power quality challenges lead to equipment wear and downtime, inventory wastage, additional maintenance and repair, higher operating costs, and grid compliance issues.

Where loads are designed to run within specific voltage ranges, irregularities of milliseconds can cause equipment failure.

Let Proventus Global connect your high-precision production equipment up to the consistent, stable voltage your operation needs.

- ✓ Reactive power and harmonic in industrial grids
- ✓ Voltage drops, imbalance and flicker
- ✓ Grid resonance and overcompensation
- ✓ Voltage stability in the distribution and transmission grid

Measurement of Power. Simulation of Electrical Networks.

Analytic approach for cost-optimized design.

Measurements

Measurement of power-statistical and short-time values for active, reactive, and apparent power.

Measurement of harmonics and inter-harmonics up to 50th order.

Measurement of unbalance and flicker.

Measurement of voltage and current transients.

Voltage dips.

Studies

✓ Load flow and short circuit calculations

✓ Harmonic analysis and impedance frequency scans

✓ Dimensioning of static and dynamic compensation and harmonic filter systems

✓ Real time simulation of control algorithm

✓ Dynamic simulations (starting sequences, mine winder applications, etc.)

Transient simulations (Inrush, TRV, etc.)

Tools

| Software | Hardware |
|---|---|
| DIgSILENT PowerFactory Plexim PLECS RTDS Software RSCAD | PQ100 PQ200 PQ300 DEWETRON DEWE 2600 Fluke 1760 YOKOGAWA |