



UTILITIES

Advanced metering technology – optimizing grid performance, identifying power disturbances, monitoring transformer substations and justifying capital investment

As the energy world is evolving, utilities must face multiple challenges such as increase in electronic equipment used in industrial facilities and integration of renewable energy systems that can cause unknown phenomena and grid instability. This reality increases the utilities’ needs to continuously record high-resolution data. We offer comprehensive solutions to measure and continuously record waveform signals for extended periods of time. In addition, we offer a power monitoring software to manage, collect and analyze data from power quality analyzers, digital fault recorders, revenue meters, PMUs, and any IEDs you may have.

NETWORK RECORDERS

Elspec offers fixed, portable and handheld power quality analyzers as well as digital fault recorder and phasor measurement unit with continuous waveform recording. This unique technology ensures data availability of any event that may occur in your grid, enabling advanced analysis and diagnosis. Use our innovative monitoring solutions to increase reliability and enhance grid capacity.



Continuous waveform recording



Superior accuracy



Synchronized monitoring



Data investigation

POWER MONITORING & MANAGEMENT SOFTWARE

Use our PQSCADA Sapphire **power monitoring software** which offers a single and unified experience across all data sources. PQSCADA Sapphire provides comprehensive data exploration, analysis, and visualization. Providing a full-picture view of your power parameters and helping to identify any abnormality in your grid.



Report customization



Advanced analysis

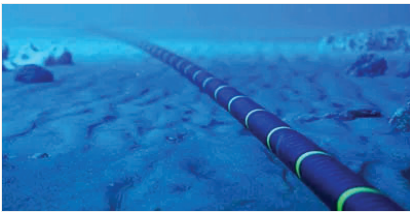


Real-time overview



Multi vendor

RELATED PROJECTS



The Estlink-2 Underwater Cable Break Case – The importance of Early Fault Detection for Power Grid

Elspec's Power Quality Analyzers, with their precision monitoring and fault detection capabilities, identified the effects of the Estlink 2



Nationwide power management system

510 Class A power quality analyzers and a nationwide power management system by Elspec were installed in nationwide utility stations, monitoring the country's electrical network...



**Power Quality Analysis
of Long Term Events
Using a Continuous
Power Quality
Recorder**

There are cases in which the consequences of the events should be traced or followed up on a long time before and/or after the



**Photovoltaic Energy –
Power Quality
Monitoring**

Wind Turbine and Photo Voltaic energy applications require continuous power quality monitoring at the Point of Common Coupling (PCC). Monitoring PQ has technical, economical



Ask us about our complete line of Power Quality Solutions www.quality-energy.com



Headquarters
Espec Ltd.
info@espec-ltd.com

North America
Quality Energy
info@quality-energy.com

Europe
Espec Portugal Lda.
info@especeurope.com

India
Espec Engineering India Pvt Ltd.
info@espec.in

Región Andina
Espec Andina
info@espec.com.co