

LIFEVIEW® PDA II Condition Monitoring Solution

Quartzteq deliver a fully customised Partial Discharge (PD) Condition Monitoring solution for six 100MW turbo generators for Quantum Energia

QUANTUM ENERGIA | POWER GENERATION | ALTAMIRA, MEXICO

Our Customer's Challenge

Quantum Energia, a leading power producer in Spain and Latin America, required a comprehensive Partial Discharge (PD) / condition monitoring system for six 100MW turbo generators in Altamira, Mexico. The solution was required to seamlessly integrate the monitoring system into a unified, centralised portal, to enable real time analysis and reporting, ensure operational efficiency and enhance monitoring capabilities. Working with Quartzteq's Mexican distributor Krodex, Quartzteq provided a customised solution that fully met the client's requirements.

The Quartzteq Solution

As Quartzteq's appointed agent, Krodex installed the LIFEVIEW® PDA II, a permanent online condition monitoring system, providing continuous monitoring of PD activity. Site services also included configuration to integrate the hardware with the plant's existing systems. Physical space near the switch connection was allocated for hardware installation, and pre-assigned IP addresses were allocated for each PDA II to streamline device connectivity. The PDA II Ethernet based data export using Modbus TCP protocol, allowed straightforward access to real-time measurement data. The software was installed and configured, ensuring seamless integration into a unified portal, displaying PD data, with additional customisation options available, to meet specific requirements. Control tests were conducted to verify full system functionality, and a comprehensive final report was provided, summarising the installation process and performance results.



Key Benefits

- Enhanced Monitoring: Real-time PD data integrated into a unified portal for all six generators
- Customisable Display: Flexibility to show additional information as per client specifications
- Efficient Installation: Seamless hardware and software deployment without operational disruptions
- Collaborative Working: Close cooperation with Quantum Energia ensured timely delivery and client satisfaction

Quartzteq's integrated LIFEVIEW Condition Monitoring solution exceeded our expectations, providing us with a reliable and customisable monitoring system that has enhanced our operational efficiency

Jose Sandoval, Technical Sales Engineer

Unified Portal
Integration

Customisable
Options

Real-Time
Data Access

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