CASE STUDY

37.1 MVA Turbogenerator LIFEVIEW PDA II to PDA III Upgrade

Building on PreZero's successful use of LIFEVIEW® technology, the site upgraded from PDAII to PDAIII through a straightforward plug-and-play migration, retaining existing infrastructure while benefiting from the latest monitoring capabilities.



PREZERO | WASTE-TO-ENERGY | ZORBAU, GERMANY

Our Customer's **Challenge**

Having successfully used LIFEVIEW® generator condition monitoring technology for many years, progressing from LIFEVIEW Live Q4000 to PDAII, PreZero chose to take advantage of the latest capabilities available within the new PDAIII platform. Each new generation of LIFEVIEW technology introduces enhanced functionality and performance, enabling users to benefit from the latest developments in condition monitoring without changing their overall monitoring strategy.

A key advantage of the LIFEVIEW product family is that, while the technology continues to evolve, the integration philosophy remains consistent. Existing sensors, connections and monitoring infrastructure can be retained, providing a straightforward plug-and-play upgrade path for existing users. This allows customers to access the latest technology with minimal disruption and without extensive modifications to their installation.

For PreZero, the objective was to continue its established LIFEVIEW monitoring journey by upgrading to PDA III, benefiting from the latest platform capabilities while protecting its existing investment and maintaining continuity across successive generations of monitoring technology.

The Quartzteq **Solution**

Following the PDA II to PDA III upgrade completed by the PreZero team, Quartzteq carried out an on-site inspection, testing and calibration programme to confirm the new platform was fully operational. The team reviewed the completed upgrade, validated system functionality and confirmed compatibility between the PDA III unit and the site's existing monitoring infrastructure.

As part of the commissioning process, Quartzteq also tested and calibrated the partial-discharge acquisition channels, ensuring monitoring accuracy was maintained following the upgrade and that the system continued to deliver reliable condition data. Periodic system calibration helps maximise the value of the monitoring system by ensuring the quality and integrity of the data used to assess generator condition.



The Quartzteq **Solution** (cont'd)

The successful project demonstrated the simplicity of the PDA III upgrade path, with the latest platform integrating seamlessly into the existing monitoring arrangement while preserving the installed infrastructure. By combining installation review, functional verification and calibration activities, Quartzteq provided independent confirmation that the system was fully operational and ready to deliver the benefits of the latest generation of LIFEVIEW monitoring technology.

Key **Benefits**

- Plug-and-Play Migration: A simple upgrade path from PDA II to PDA III with minimal disruption.
- Existing Infrastructure Retained: Continue using existing sensors and monitoring infrastructure.
- Latest PDA III Technology: Access enhanced functionality through the latest platform generation.
- Accurate Monitoring Data: Calibration helps ensure reliable and trusted condition monitoring information.

> ***Having used previous generations of LIFEVIEW monitoring technology, upgrading to PDA III was a straightforward next step. The installation was simple, and Quartzteq's verification and calibration activities confirmed the system was fully operational and ready to deliver the benefits of the latest platform.***
>
> ***SUGGESTED -*** *Name / Title*



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