

Case study

ERG unifies its multi-brand European Fleet with a single O&M solution



300+ Turbines Monitored



Monitoring 4 OEMs in 3 countries



Background

ERG is the leading wind power operator in Italy and one of the leaders in the European market, with turbines across Italy, France, and Germany.

Challenge

Having multi-brand assets, across different sites with legacy CMS systems made monitoring challenging.

In addition, there were issues around data access and ownership, which meant getting quality frequency data from their assets was complex and sometimes impossible.

This left ERG unable to use the data to form clear decisions and put in place strategic O&M plans.

This posed a higher risk of downtime due to limited information, which impacts energy production and the turbines working both optimally and reliably.



Solution

The first step by ONYX in supporting ERG was in accessing its own data. By monitoring and retrofitting ecoCMS onto some units, ONYX was able to get the data points necessary to provide high-quality frequency and accurate information on their fleets.

Using this data, ONYX worked with ERG to gain a good picture of component life, understand potential early failures, and enable the teams to put in place a robust O&M schedule alongside a predictive maintenance strategy. This was key in simplifying a complex view over multiple analytics platforms.

Building a strong in-house capability as a self-operator, ERG was able to simplify their O&M and have sight of the health of all their turbines in one place.



ERG and ONYX has established an important collaboration on the way of the optimization of their predictive analysis through the CMS data and developed a reliable strategy to monitor their internalized assets in Italy, France and Germany.



There is also an on-going project to extend this approach to the externalized assets around the Europe.

ERG's aim is to improve this collaboration in the next future in order to improve the reliability of all the multi brand CMS inside its portfolio.

Davide Prato

Production Optimization, ERG



ONYX provided a scalable solution that has allowed ERG to selectively retrofit legacy turbines with next-generation ecoCMS as part of their predictive maintenance strategy. ONYX solutions have since been rolled out to over 300 wind turbines in Italy, Germany, and France, supporting ERG with optimizing the O&M of its fleet.

Benefits

Working together, ONYX has supported ERG to be able to self-monitor its turbine health across its mixed fleet using one platform, as well as now having full data ownership across its European fleet.

ONYX software's data processing has transformed ERG's legacy CMS data acquisition procedures to enhance in-house diagnostics. ERG now has visibility and the knowledge to prioritise any forthcoming fleet issues, as well as optimising its future reliability.



ONYX and ERG have become true partners on this journey, working collaboratively sharing technology transfer and know-how that has meant ERG can extract additional value from their investments and subsequently streamline their operations.

By utilising our software subscription (SaaS) model ONYX has changed the landscape of O&M, with an engineering-led agile approach to meet customer needs, working with them to solve their challenges while maximising energy production.



Sven Thiesen

European Sales & Engineering Director, ONYX Insight

Most Valuable Insights

Using the fleet**MONITOR** web application, monitoring engineers can diagnose reliability problems quickly and effectively analysing data from vibration condition monitoring hardware including temperature, particle counters, and lubrication data.

With users and rotating machinery monitored around the world, fleet**MONITOR** is proven to save you money and improve O&M planning.



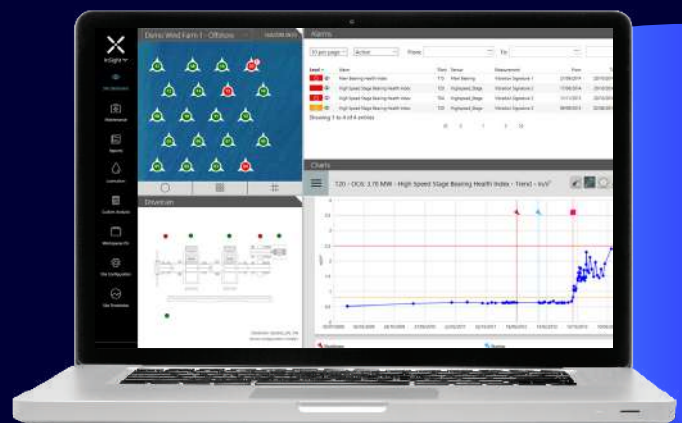
Interface with your existing CMS hardware and IT systems



Detect failures early and improve efficiency with powerful punchlists



Flexible cloud-based software platform



 **fleetMONITOR**
By ONYX Insight