

Wind Turbine Services

Main Bearing Replacement Programme – Onshore Wind Farm

To safely and efficiently replace damaged main bearings across 33 turbines, restoring reliability and performance while maintaining the highest standards of safety, quality, and operational execution.

Our Solution

- Prepared turbines for disassembly, including full rotor lifts and removal of drivetrain units.
- Removed and replaced damaged bearing assemblies by decoupling from the gearbox on the ground, installing new components, and reinstating drivetrain and rotor systems.
- Completed final mechanical works including high-speed coupling installation, generator alignment, full walkdowns, demobilisation, and submission of quality documentation.



At a Glance

Challenges

- The scope had not previously been executed, requiring site teams to validate and refine work instructions in real time.
- Development of suitable reaction arm solutions for bolted connections required both in-house innovation and collaboration with external tool suppliers.
- Environmental factors, particularly wind delays, impacted scheduling and required continuous adjustment to maintain progress.

Value to client

Aurora delivered the project safely and efficiently while adapting to both technical and environmental challenges. The team demonstrated flexibility by adjusting working hours, reallocating resources, and maintaining productivity despite wind delays. Innovative problem-solving, including the development of new tooling solutions now adopted into service, added long-term value beyond the project itself. This proactive and collaborative approach strengthened the working relationship with the client and reinforced confidence in Aurora's ability to deliver complex, first-of-its-kind scopes.

Contact Us

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