

Liftra Case Study

Objective

Aurora has invested in the Liftra LT1200 self-hoisting crane — an innovative solution enabling major wind turbine repairs without the need for external cranes. It's compact, efficient, and built for speed, safety, and smarter maintenance. The primary objective was to reduce the downtime associated with traditional repairs of components such as generators or gearboxes, which can often result in weeks of lost productivity. Liftra provides a solution by enabling components to be lifted and replaced up the tower, allowing for faster and more cost-effective maintenance.

Our Solution

- The solution delivered was the use of Liftra Self Hoisting Crane, which enables major component exchanges, such as generators and gearboxes, without the need for traditional heavy-lift cranes.
- This innovative approach offers several key benefits. It allows for faster mobilisation, enabling repairs to begin more quickly. Downtime is significantly reduced, ensuring turbines return to operation sooner. The overall project cost is lowered by eliminating the need for large crane operations.
- Additionally, the Liftra system operates effectively within tight weather windows and is particularly well-suited for remote locations or sites with limited space.



At a Glance

Challenges

The project faced several common challenges typically associated with major component replacements. Large lifts often cause significant disruptions, including the need for heavy crane mobilisation, delays due to weather conditions, high operational costs, and difficulties accessing remote sites. However, the use of Liftra technology helped overcome these challenges by providing a precise lifting solution with a minimal site footprint, reducing disruption and improving project efficiency.

Value to client

The project provided significant value to the client by reducing operational disruptions and enhancing overall safety during major component exchanges. This approach offers a smarter and more sustainable way to manage turbine assets, ensuring minimal downtime and improved operational efficiency. The Liftra solution is reliable, responsive, and ready to help lift the client's performance, both in the short term and long term.