

**CASE STUDY** 

# **Combined Statutory Inspection Services**

### **History**

The statutory inspection and maintenance work scopes had been carried out by various companies at different intervals throughout the year. This meant the wind turbines had to be shut down frequently on different days to carry out a work scope that could be achieved during a single visit to the turbine. This had a negative impact on generation.

### Challenge

Supply a team of competently trained inspection engineers to undertake all of the following work scopes in one visit:

- Statutory inspection and maintenance on all lifting and safety equipment in accordance with:-
  - SI 2307 Lifting Operations Lifting Equipment Regulations (LOLER 1998).
  - SI2306 Provision and Use of Work Equipment Regulations 1998
  - Inspection and test of the hydraulic pressure systems Pressure Systems Safety Regulations 2000.
  - Inspection and service of the turbines CO2 and dry powder fire extinguishers in accordance with BS5306 part 8.
- Inspection, maintenance, repair and testing of the service lifts.
- Ad-hoc load testing of the nacelle descending davit arm brackets.





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## **Solution**

By sourcing and undertaking both the turbine manufacturer and equipment specific OEM competency training courses, we were able to supply competently trained teams comprising two inspection engineers per team to undertake all the above listed inspection, maintenance, repair and testing work scopes.

## Results

By undertaking all the above work scopes in one visit the benefits were quantifiable in:

- Reduced labour costs
- Vessel costs
- Work packages
- Planning and logistics
- Accommodation and subsistence costs
- Safety risk and complexity
- All inspection certification being stored and tracked in one place as opposed to three separate systems
- Most importantly minimal turbine downtime

## Maximising our value

- Using multi skilled competent personnel to carry out multiple work scopes on each turbine reduced the need for numerous visits by other 3<sup>rd</sup> party vendors.
- Completing work within designated timescales.
- Online certificate management system utilised to plan future inspection programs.
- Providing technical advice and assistance.
- Maintaining both 3sun Group and client safety cultures.







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