

# WIND TURBINE SELECTION AND CONSTRUCTION SERVICES



RES Offshore provides wind turbine selection, due diligence, project management and construction services to offshore wind farm projects. The team has extensive knowledge, based on a decade of offshore wind turbine experience, enabling it to provide services covering the full life cycle of a wind turbine package.

## Wind turbine selection

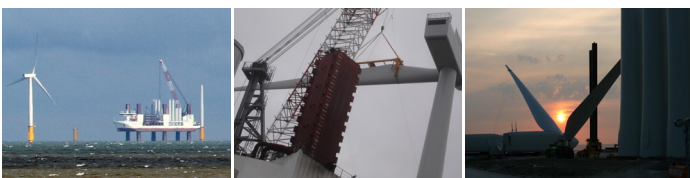
- Creation of wind turbine envelopes to support the project feasibility and development stages
- Technical due diligence of wind turbines and their associated technologies
- Preparation of documentation for, and the management of, expression of interest and tender processes
- Tender analysis including normalisation of wind turbine package CAPEX and evaluation of OPEX
- Energy yield and turbine siting studies
- Logistic strategies supported by weather downtime analysis
- Preparation of wind turbine construction and commissioning programmes

## Contract preparation and negotiation

- Turbine supply and service contracts
- Construction contracts covering wind turbine loading, sea transportation and erection activities
- Technical and commercial aspects of turbine related contracts

## Construction phase

- Project management of wind turbine contracts
- Complete services in all phases from contract signature to completion
- Company representation at manufacturing, pre-assembly and commissioning sites
- Company representation onboard installation vessels
- Quality inspections during manufacturing, commissioning and testing
- Commissioning and snagging coordination
- Contract close-out and handover to O&M
- Post-construction power performance analysis



## CASE STUDY



PHOTO: CENTRICA

### LINCS OFFSHORE WIND FARM

**Client:** Centrica on behalf of Lincs Wind Farm Ltd

**Wind turbines :** Siemens 75 x SWT 3.6-120

Embedded in the client's organisation, RES Offshore staff managed the wind turbine package, from contract preparation and negotiation to handover to O&M

- Development and negotiation of wind turbine supply and service contracts
- Development and negotiation of wind turbine loading, sea transportation and erection contract
- Support to project financing process
- Fulfilling the role of "Engineer" under the turbine supply agreement
- Quality inspections during manufacturing
- Management of construction activities - including site representation at pre-assembly and commissioning ports, and on installation vessels
- Monitoring of reliability testing
- Management of snagging activities
- Contract close-out and handover to O&M

RES Offshore utilises knowledge and expertise from the whole of RES Group giving clients access to the industry leaders throughout the life-cycle of the project, particularly in engineering, turbine technology and reliability, technical advisory services, SCADA and electrical design (inc. grid compliance). A specific team can be created based on the client's requirements and the phase of the project.

These activities have been carried out for a number of different UK Round 1, Round 2 and Round 3 projects, French Round 1 projects and the Northern Ireland leasing round, resulting in a wide range of experience.

## About RES Offshore

RES Offshore offers integrated development, engineering, construction and AO&M services for utility-scale renewable energy projects. From offshore wind to wave and tidal, we bring to projects the considerable skills and experience that we have acquired over 30 years in the renewables industry. RES Offshore is part of the RES Group, one of the world's leading renewable energy project developers. To date, RES has delivered more than 8000MW of wind energy capacity worldwide.

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