



FUGRO

OFFSHORE CONSTRUCTION WEATHER FORECASTING

Accurate weather forecasts provide increased efficiency and improve safety by supporting decision making during planning, construction, operation and maintenance of offshore wind farms.

ACCURATE FORECASTS

As offshore wind farms are constructed further offshore and into deeper water, the operational impact of stronger winds, larger waves and increased ice loading need to be taken into consideration.

Waiting for suitable weather conditions for repairs and operational installations can lead to unnecessary expenses and lower production times for wind turbines.

Accurate weather forecasts are essential to help utilise weather windows constructively for safety, efficiency and cost effectiveness.

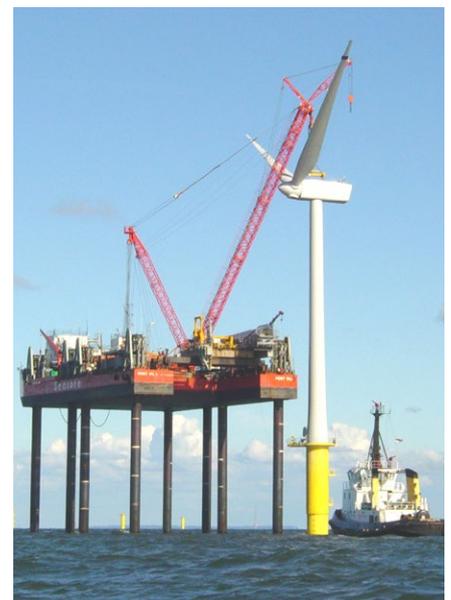
SOLUTION

Fugro provides a complete marine weather forecasting suite for the offshore renewable energy industry, which can be tailored to meet the client specifications. Fugro provides solutions for:

- Wind farm development
- Forecasting daily wind power output
- Maintenance and support operations for the life of the wind farm

BENEFITS

- Enhances offshore safety
- Improves site planning and operations
- Weather forecasters available 24/7/365



Weather forecasting for operational support to improve efficiencies.

SERVICE FLYER



FEATURES

- Wind speed forecasts using Fugro's in-house high resolution model at specified hub heights
- Site specific and tow forecasts
- Lightning warnings
- Long term probability forecasts
- Secure online delivery of forecast and other metocean data
- Experienced weather forecasters available 24/7/365
- Seven day ahead forecasts at 30 minute intervals (updated 4 times per day)
- Forecast optimisation using statistical analysis of observational and historical data

SERVICES

- Wind forecasts
- Wave forecasts
- Lightning warnings
- On-site forecaster for critical operations
- Site specific and tow forecasts
- Spectral wave energy forecast
- Low temperature warning

PAST EXPERIENCE

Lowestoft's Wind Farm - Orwell Offshore Ltd.

Fugro supported the development stage of the wind farm by providing daily weather forecasting services to effectively utilise weather windows.

Robin Rigg Wind Farm - Global Marine Systems Ltd.

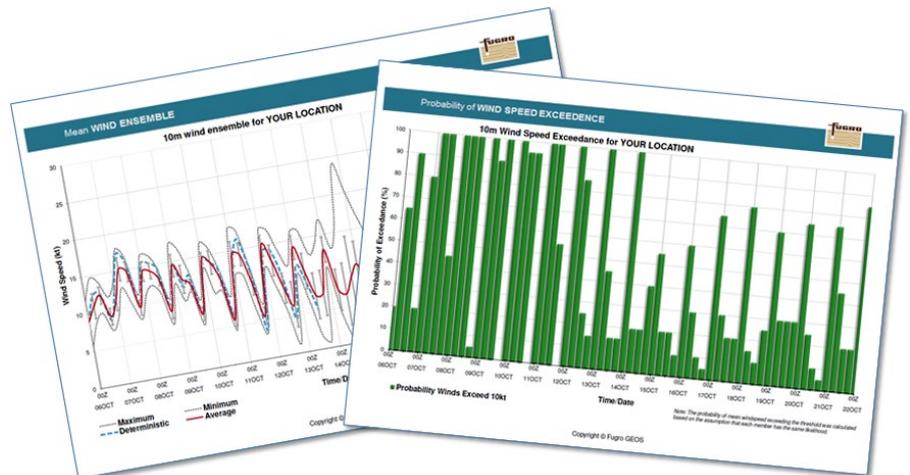
Fugro supported the geotechnical survey carried out for Scotland's first offshore wind farm, providing weather forecasting for the jack up rig to help improve the safety of operations.

Rampion Offshore Wind Farm - E.ON Climate & Renewables

Fugro provided weather forecast services for the jack-up rig Excalibur during operations as part of the Rampion Offshore Wind Farm in the English Channel to help improve operational efficiency.



Wind forecasts at multiple heights.



Wind ensemble and exceedence graphs.



Wind and wave forecasts to ensure lifts are carried out safely.