

MET MASTS DESIGN, INSTALLATION AND AO&M



RES Offshore offers met' mast design, supply, installation and AO&M (Asset Operation and Management) services for offshore project developers, both on a turnkey and a project management basis, together with metocean data collection systems and data analysis.

We understand the importance of collecting wind, wave and tidal data of the highest quality with the lowest uncertainty, both of these factors having a direct impact on energy yield prediction, project value and project financing.

We have extensive experience in coordinating and specifying met mast towers, sensors and data loggers for the collection of wind data. We ensure that all our procedures and systems are directed at minimising uncertainty in the prediction of energy capture and financial yields. In addition to the collection of wind data, RES Offshore can undertake the measurement of the full range of oceanographic parameters, recording the results.

Our service includes:

- Design and installation of wind speed and metocean measurement systems
- Measurement masts foundation design and installation
- Measurement system operation and maintenance
- Data collection and database management
- Data analysis and processing, including data quality assurance
- Wind and climatic conditions reporting and prediction
- Energy yield prediction
- Assessment of inter-array and wake effects
- Power performance measurement



Met Masts Installation

RES ensure that the complete installation including foundation, mast, booms and measurement system are designed to take account of all key project requirements; from safe access through to reliable data capture. Structural strength, stiffness, fatigue life and air flow are taken in to account in designing the mast and in specifying the method of installation, operation and decommissioning.

We know that the viability of a project will depend upon robust and reliable data collection and processing, our wind measurement team have installed over 450 met' masts and have collected, managed and evaluated data in support of the project financing of over 60 wind farm projects.

RES can deliver a full offshore foundation, mast and measurement system on a turnkey basis or can provide a project management service on behalf of the client to integrate RES' measurement systems with the work of the client's preferred foundation contractor.

Oceanographic Instrumentation

RES have experience of the evaluation, selection and operation of oceanographic instrumentation including wave buoys and acoustic doppler current profilers (ADCPs). Our experience includes the installation of equipment using umbilical cable connections to fixed mast structures for the supply of power and communication and the installation of measurement equipment operating in stand-alone mode.

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.



For further information:

RES Offshore
Faraday House
Station Road
Kings Langley
Hertfordshire
WD4 8LH

T +44 (0)1923 608 200
E info@res-offshore.com
www.res-offshore.com

