ABOUT US

Operational oceanography
MetOcean Solutions is a science-based consultancy providing specialist numerical modelling and analytical services in meteorology and oceanography. MetOcean Solutions is a division of Meteorological Service of New Zealand (MetService).

Expertise
Our team includes a multi-disciplinary group of PhD scientists and technical experts. We run our models in-house and deliver high quality environmental data and expert interpretation to meet the rigorous requirements of the offshore and maritime industries as well as regulatory and defence agencies.

Track record
Our staff have vast experience leading oceanography projects all over the world and thousands of hours of experience working at sea. As a team, we understand the ocean.

Services for Offshore Renewable Energy

Offshore renewable energy assessment

Resource mapping
Mapping wave power, current flow or wind field for any site in the world to help operators find the best locations for offshore renewable energy. The resource mapping is based on our regional and high resolution 34-37 year hindcast data.

Metocean site reports
Site reports provide a detailed assessment of the oceanographic and meteorological conditions at the exact locations of interest. Based on up to 37 years of high quality hindcast information, a rigorous analysis of the waves, winds and 3D currents is supplied for guidance on design, installation and operational aspects.

Routing of heavy lift ships
Essential for installation and demobilisation of offshore wind farms and renewable energy devices.

Specialist marine weather forecasts
High accuracy forecasts provide customised guidance optimised for the project location. The services include high resolution automated forecast updates 4 times per day and derived guidance products such as workability, kinematics, vessel motion and real time guidance for installation, operations and maintenance.

Workability criteria and downtime analyses
Robust statistical information based on multi-year hindcast data to quantify favourable weather windows and downtime during critical installation and demobilisation stages.
Metocean services for any location on Earth
An extensive suite of in-house state-of-the-art numerical guidance allows accurate, high resolution forecasts to be provided at the exact location needed. The end user forecasts are highly detailed yet presented in an easy to understand format, available 24/7 by web access or auto email updated every 6 hours.

Historical weather services
Our hindcast data provides high quality marine weather data from multi-year numerical model simulations for any location on Earth. Historical data archives reach back to 1979 offering key baseline data for project scoping, offshore and coastal design, project planning and environmental impact assessments.

Scientific consultancy services
Use our experienced scientific team to gain a thorough understanding of the meteorological and oceanographic processes relevant to your project. We have extensive experience working across a wide range of environments, and routinely apply the latest tools and analysis techniques for coastal, port and offshore developments.

Try out MetOceanView:
www.metoceanview.com

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