

Identify new offshore wind farm opportunities and evaluate their potential environmental impact

Offshore Wind

Do you want to ensure your new offshore wind farm can withstand the conditions at a given site?

Would you like to better determine the potential impacts of offshore construction on life underwater?

Could you benefit from more streamlined approval processes and reduced investment risks?

Opportunities and challenges

To achieve the global goal of clean energy, the offshore wind market has grown at rapid pace - nearly 30% per year since 2010. In addition, the cost of this form of renewable energy has fallen in recent years. To continue at this pace, it's imperative to more efficiently evaluate wind, wave and current conditions and the potential impact of your next clean offshore energy project on the environment.

How DHI can help

Since 1991, DHI has developed standards and tools to optimise wind farm design and ensure safe construction, operation and maintenance. In fact, more than 85% of commissioned offshore wind farms include DHI input. Recognised as best-in-class by certifiers, our methods, data and ecological modelling tools allow you to identify potential impacts early and throughout the project cycle to ease approval processes and reduce scheduling and investment risks to make your project more bankable.

Integrated solutions

- Ensure cost efficient design and operation with high quality metocean data and analyses
- Rely on certifiable environmental design criteria to support all offshore wind elements
- Secure environmental clearance with input from specialist modelling and monitoring
- Protect your assets with seabed mobility and scour risk predictions & analyses
- Rely on accurate load and response analyses of fixed and floating wind support structures
- Have answers at your fingertips with MIKE Powered by DHI modelling software

Core technology

MIKE 3 Wave FM

Calculate wave transformation to analyse the impact of a wave climate on offshore infrastructure

MIKE 21/3 Hydrodynamics

Accurately simulate water level variations and flows in response to a variety of forcing functions

MIKE 21 Spectral Waves

Simulate the growth, decay and transformation of wind-generated waves and swells

Bathymetric & MetOcean Data Portals

Access high quality and reliable data on water depths, wind, currents and waves



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