

Providing a digital metocean database for Dutch offshore wind farms

Fast, accurate and reliable assessment of metocean conditions with open-access



Reduced cost

The database delivers all the required data, thus no further metocean studies are needed



High-quality metocean data

The industry now has easy access to certified, high quality and consistent metocean data in the Dutch North Sea area



Future development support

The project supports cost-effective development of future offshore wind farms for the Netherlands

Challenge

The 2013 Dutch Energy Agreement initiated the country's goal to increase its offshore wind capacity from 1,000MW to 4,500MW by 2023.

To provide developers with high quality and certified metocean data, RVO.nl (on behalf of the Dutch Government and supported by BLIX Consultancy) commissioned DHI (who has contributed to more than 85% of all offshore wind farm projects in Europe) to provide a comprehensive and user-friendly digital metocean database.

Solution

Using state-of-the-art numerical models and advanced analysis methods, 38 years of metocean data at any given point within parts of the Dutch North Sea area was delivered in the form of a digital database.

Solution highlights

- 38 years of modelling results in one solid database (including both time series and 2D spectral data)
- Presents normal and extreme conditions at sea
- User-friendly interface: an all-in-one approach
- Results were validated against multiple measurements and proven to be of excellent quality



'We challenged DHI to provide a world-class metocean database to allow developers to optimise their designs in the tender stage. DHI exceeded our expectations.'

Ben de Sonnevile, Senior Consultant
BLIX Consultancy BV, on behalf of the client RVO.nl



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