

Windanker Offshore Wind Farm

Offshore, Marine & Energy
Offshore Wind



Sika@Work



BUILDING TRUST



Project description

The Windanker Offshore Wind Farm (OWF), with a total installed capacity of 315 MW, is situated in the German sector of the Baltic Sea. The site lies approximately 45 kilometers northeast of the island of Rügen, with water depths ranging from around -41.6 m to -45.5 m relative to Mean Sea Level (MSL).

The project comprises 21 wind turbine generators (WTGs), each installed using bolted ring flange connections between the monopile (MP) and transition piece (TP), with a grouted skirt backfill to protect the connection.



Project facts

Project name	Windanker Offshore Wind Farm
Location	Baltic Sea, Germany
Year	2025
Application	Skirt backfill (MP-TP)
Product	SikaGrout® -9600
Material quantity	approx. 1,000 tonnes
Installed capacity	315 MW
Number of structures	21
Turbine capacity	up to 15 MW
Equivalent homes	315,000



Project requirements

The project required a high-performance grout suitable for filling the annular void between the MP and skirt to protect the bolted connection against corrosion in the splash zone.

In addition, the grout system was required to comply with German regulations, including obtaining a Single Case Approval (ZiE) before installation. This required comprehensive third-party testing and validation to demonstrate the grout's suitability for offshore applications.



Sika solutions

SikaGrout®-9600, a high-performance grout specifically developed for offshore applications requiring durability, controlled placement, and long-term protection of critical structural interfaces, was selected as the right product to meet the project requirements. Prior to production, Sika arranged and managed independent third-party laboratory testing to obtain ZiE approval from the German authorities prior to project execution.

The material was produced at Sika's state-of-the-art production facility located in Ham, Belgium, and loaded directly to Sika's own 20ft horizontal tank containers (HTCs) for efficient bulk handling and transport. The material was then transported to the marshaling port before being mobilized to the offshore installation vessel to facilitate grouting operations. Approximately 1,000 tonnes of grout were supplied to support the installation of the 21 MP structures.



Customer benefits

Sika's solution provided a durable and reliable corrosion protection system for the monopile-to-transition piece connection, supporting the long-term structural integrity of the offshore wind turbines.

The successful achievement of ZiE approval ensured full regulatory compliance, reducing project risk and enabling timely execution. Efficient logistics, including bulk transport via HTCs, supported streamlined offshore operations and minimized handling complexity.

Project Participants

Developer: Iberdrola

Contractor: Van Oord

Applicator: FoundOcean

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.



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