



SIKA AT WORK

ISHIKARI BAY NEW PORT OFFSHORE WIND FARM, HOKKAIDO PREFECTURE, JAPAN

OFFSHORE & MARINE CONSTRUCTION
RENEWABLE ENERGY

BUILDING TRUST



ISHIKARI BAY NEW PORT OFFSHORE WIND FARM



PROJECT DESCRIPTION

As of May 2024, the Ishikari Bay New Port Offshore Wind Farm is Japan's largest commercial offshore wind farm at 112 MW. The project uses the 8 MW typhoon and seismic certified SG 8.0-167 DD offshore wind turbine from Siemens Gamesa. It is the first project in Japan to use 8 MW turbines.

Due to limited electrical transmission capacity to Honshu, and Hokkaido's relatively small, mainly rural, population, the local Transmission System Operator requires that all major renewable generators directly connect projects to a Battery Energy Storage System (BESS). As a result, the Ishikari Bay project is paired with a 100 MW/180 MWh BESS.

Project name: Ishikari Bay New Port Offshore Wind Farm
Location: Hokkaido prefecture, Japan
Year: 2022
Application: Jacket foundations
Product: SikaGrout®-9500

PROJECT REQUIREMENTS

Nippon Steel Engineering were responsible for the design and installation of the jacket foundations for wind turbine generators (WTG) components. In close collaboration with the local team at Pozzolith Solutions, Sika delivered grouting materials, equipment rental and provided offshore supervision for the local grouting crew. This was Sika's first offshore grouting project in Japan.

Any product name or reference reflects the Sika product name at the time of creation of this document and may differ from the product name or reference during past events.

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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SIKA SOLUTIONS

New, innovative proprietary offshore grouting equipment was mobilized to the project, which achieved an average output of more than 22 MT per hour and 24 MT at top pumping speed. The grouting operation, troubleshooting, and maintenance was monitored closely by Sika as part of the contract and for internal Grouting Field Record documentation.

Facilitated by Bond Engineering personnel, Sika was involved in the installation of fourteen wind turbine generators (WTG). The WTGs were installed on 4-legged jacket foundations and driven into the seabed by piles. The team used Sika's containerized batch mixing grouting spreads with a capacity of 3 MT (2 x 1.5 MT bags) per mix and applied SikaGrout®-9500 ultra-high strength grout for offshore wind turbine foundations.

CUSTOMER BENEFITS

- The project received comprehensive support, including SAT/FAT trials of the equipment, the provision of the CPT-25-02 grouting spread, offshore supervision, technical assistance, and troubleshooting throughout the grouting operation.
- The grouting was completed successfully with zero personnel or environmental incidents.

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