



SIKA AT WORK

EAST ANGLIA ONE

NORTH SEA, UNITED KINGDOM

OFFSHORE & MARINE CONSTRUCTION
RENEWABLE ENERGY

BUILDING TRUST



EAST ANGLIA ONE NORTH SEA, UNITED KINGDOM



PROJECT DESCRIPTION

East Anglia ONE is among the largest offshore wind farms in the world, situated in the North Sea, approximately 50 kilometers off the Suffolk coast. Developed by Scottish Power Renewables (Iberdrola) in partnership with Vattenfall, the wind farm has an installed capacity of 714 MW and has been fully operational since mid-2020, delivering renewable energy to nearly 630,000 British households. The project involved the complex installation of 102 Siemens Gamesa 7 MW wind turbines, each mounted on three-legged jacket foundations. For the structural grouted connections, SikaGrout®-9800 was selected to ensure high-performance bonding and load transfer integrity.

Project name: East Anglia ONE 714 MW Offshore Wind Farm
 Location: British North Sea (southern sector)
 Year: 2019
 Application: Jacket installations
 Product: SikaGrout®-9800

PROJECT REQUIREMENTS

Sika manufactured and supplied SikaGrout®-9800 in bulk 25-tonne batches to align with the project's stringent installation schedule, dictated by peak demand fluctuations. Managing a fleet of approximately 150 silos, Sika adapted to highly variable demand cycles as the offshore installation team capitalized on favorable operational windows. The entire grout supply chain was dynamically optimized, from inbound raw material procurement through production scheduling and outbound logistics, to accommodate surges in demand. The supply chain strategy integrated consolidated overwater transport via inland barges, supplemented by adaptive road transportation, balancing cost efficiency with responsive supply chain agility.

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

Sika developed an efficient logistics solution to streamline the supply chain between its German production plant and the Vlissingen loading port, including bulk silo consolidation and the use of inland waterways. A large fleet of specialized silos was managed and tracked by Sika to deliver SikaGrout®-9800, ensuring reliability through Sika's factory production control, quality measures, and unparalleled track record. The product was mixed and pumped in bulk using a recirculating jet mixer offshore, ensuring both high volume and quality while maintaining the pace of a well-executed campaign.

CUSTOMER BENEFITS

- Bulk supply eliminated ~10,000 crane lifts when compared with big bags (financial and safety benefits)
- Zero late deliveries (risk profile benefit)
- Adaptable supply chain options to accommodate fluctuating demand
- Product performance – pot life and workability designed for offshore use as well as consistent strength gain behavior
- All batches tracked and traced from raw materials to foundations

PROJECT PARTICIPANTS

Main contractor: Van Oord Offshore Wind Projects B.V.
 Applicator / Contractor: FoundOcean Ltd.
 Design / Installation: Rambøll

QUICK FACTS

Amount of material used: 14,600 tons
Number of turbines: 102 x WTG E19 Siemens Gamesa
Windfarm total capacity: 714 MW
Turbine hub height: 90 m
Area of wind farm: 162.82 km²
Foundation type: Grounded jacket (piled)
Typical water depth: 30.5 m