



# SIKA AT WORK

## ÎLES D'YEU AND NOIRMOUTIER OFFSHORE WIND FARM

OFFSHORE & MARINE CONSTRUCTION  
RENEWABLE ENERGY

BUILDING TRUST



# ÎLES D'YEU AND NOIRMOUTIER OFFSHORE WIND FARM



## PROJECT DESCRIPTION

The Îles d'Yeu and Noirmoutier Offshore Wind Farm is one of France's major fixed-bottom offshore wind developments, delivering 488 MW of installed capacity from 61 drilled and grouted XL monopiles. Located 11.7km off Île d'Yeu and 16.5km off Île de Noirmoutier, the foundations are installed in water depths ranging from 17m to 35m. Once fully operational, the wind farm will generate approximately 1,900 GWh per year, supplying renewable electricity to the equivalent of 800,000 people.

Sika supported the offshore construction program with a 15-month delivery campaign, supplying over 40,000 metric tons of SikaGrout®-9650 for both rock socket grouting and transition piece (TP) skirt backfilling. The project was executed through the Port of La Rochelle marshalling base and closely followed the successful delivery model used at the Saint-Nazaire Offshore Wind Farm.

Project name: Îles d'Yeu and Noirmoutier Offshore Wind Farm  
Location: North Atlantic, France  
Year: 2024-2025  
Contractor: DEME Offshore  
Applicator: Large Diameter Drilling  
Application: Rock Socket and Skirt Backfill (XL Monopiles)  
Product: SikaGrout®-9650

## PROJECT REQUIREMENTS

The offshore installation required a high-performance cementitious grout capable of fulfilling two structural roles. First, the grout needed to create a durable, high-strength bond between the drilled monopile and the rocky seabed. This demanded exceptional early-age and long-term compressive strength, stability during deep-socket placement, and reliable performance under the challenging conditions typical of offshore environments. Second, the grout was required as a backfill material for the transition piece skirt, where it provides long-term corrosion protection to the bolted MP-TP connection, prevents water ingress, and delivers the necessary resistance to boat-landing impacts.

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Because of the scale of the installation and the tight offshore schedule, the project also required a grout with proven offshore handling characteristics and a robust, high-volume supply chain. Consistency of supply, compatibility with drilling templates and grouting spreads, and the ability to maintain continuous installation activities were essential to meeting the construction program.

## SIKA SOLUTIONS

To meet the project's structural and logistical requirements, Sika supplied SikaGrout®-9650, a DNV Type Approved and Certified grout specifically developed for offshore rock socket applications. The material demonstrated excellent performance in both deep rock sockets and transition piece backfilling, offering reliable placement behavior, strength development, and temperature resistance down to 0°C.

Bulk production was carried out at Sika Belgium's facility in Ham, ensuring consistent quality and uninterrupted supply throughout the 15-month campaign. Material was transported to the La Rochelle marshalling port by sea and road, supporting the offshore installation schedule. During peak operations, Sika delivered more than 5,000 metric tons in a single month, demonstrating the strength of the supply chain and the efficiency of the bulk delivery model. High-capacity bulk bags, ranging from 10 to 12.5 tons, further streamlined handling at the port and improved loading efficiency. The supply model followed the approach previously implemented on the Saint-Nazaire Offshore Wind Farm, allowing the project team to work with familiar procedures and equipment during the project.

## CUSTOMER BENEFITS

The use of SikaGrout®-9650 provided the contractor with a reliable, high-performance solution for both rock socket grouting and transition piece skirt backfilling, ensuring structural integrity across all 61 monopile locations. The material's proven offshore performance and temperature tolerance supported consistent installation progress despite variable marine conditions.

Sika's large-scale production capacity and resilient logistics network also allowed uninterrupted deliveries over the 15-month campaign, enabling the installation team to maintain schedule certainty. The bulk delivery model, refined through previous offshore projects, also reduced port-side handling time and minimized operational risk. Together, these factors provided a reliable, efficient, and technically robust grouting solution for the offshore foundation works.

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