



Wikinger wind farm– clean energy for thousands

After unveiling plans in 2014 to install **70 turbines** off the North German coast in the **Baltic Sea**, Iberdrola connected its **350 MW Wikinger wind farm** to the German power grid in late December 2017.

At full nominal capacity, the wind farm supplies **clean energy to over 350,000 households**, representing **20% of total local power consumption**.

To build the wind farm, **280 piles**, measuring 131 feet in length and weighing 150 tons each, were built in European shipyards and driven into the seabed off the German island of Rügen to hold the foundations. **70 foundation jackets, each weighing 620 tons**, serve as the base for the turbines.

A key infrastructure in the project is the '**Andalucía**' **offshore substation**, built in Spain, coated by Hempel, and transported to its final destination in Germany.

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THE CHALLENGE

The enormous offshore structures required **optimal protection in CX Marine conditions**, both on their inner and outer surfaces.

The coating system needed to provide **long-term protection in severely corrosive environments**, resistance to **seawater and abrasion**, and maintain the required visibility and appearance with **minimal maintenance over many years**.

THE SOLUTION

Hempel was closely involved in this pan-European project, firstly by **designing optimal paint schemes for all structures** and secondly by providing its **advisory services** wherever required.

The towers were protected with a **3-layer coating system** comprising **Hempadur AvantGuard® 770, Hempadur 47300 and Hempathane HS 55610**, applied to both inner and outer surfaces.

The backbone of the paint system is **Hempel's patented AvantGuard® activated-zinc primer**, designed to ensure **long-term protection in severely corrosive environments**. Hempadur 47300 provides a **hard and tough coating with resistance to seawater and abrasion**, while Hempathane HS 55610 provides the final topcoat on both inner and outer surfaces.

The system was designed to ensure the structures maintain the required visibility and appearance with **minimal maintenance over many years**.



At a glance

CUSTOMER

Iberdrola

PROJECT

Wikinger Offshore Wind Farm

ASSET

Offshore Wind Foundations, Towers & Offshore Substation

LOCATION

Baltic Sea, Germany

COATING SYSTEM

Hempadur AvantGuard® 770 +
Hempadur 47300 + Hempathane HS 55610

YEAR

2017