

Baltic Eagle, Germany | 2024 | 476MW

Case study

Largest commercially proven rotor size*

Highly corrosive environment

Aggressive splash-zone conditions

While we actively participate in developing comprehensive testing standards for wind asset solutions, the most important measure for a coating's performance is through extensive in-field operation. This is why we present one of our track records to you along with the challenges we helped overcome.

Connecting the dots

* At the time of construction
Image used for illustrative purposes only

Baltic Eagle Wind Farm

Protection by AkzoNobel's market leading coatings

AkzoNobel's market leading coatings will protect an offshore wind farm 30km off the coast of Germany – and help save an estimated one million tonnes of CO₂ every year.

Interzone® 954 from the AkzoNobel International® brand, which has a proven track record of more than 25 years, will be used on monopiles, transition pieces and the substation of Baltic Eagle. Intershield® 300, Interthane® 990E and Chartek® 8E are also being used on the substation.

A total of 225,000 litres of Interzone 954 will be used on 51 offshore wind energy assets with developer Iberdrola. The substation consumed 110,000 litres of protective coatings, with the transition pieces consuming approximately 65,000 litres. Lastly, the monopiles used 50,000 litres.

Since the wind industry began more than 40 years ago, AkzoNobel continues to set the industry standard and lead the way with our extensive International® product range, which has been integral to offshore projects. Paired with technical expertise, AkzoNobel provides a 'tip-to-toe' approach to offshore wind asset protection, ultimately supporting all stakeholders and continuously raising the bar.

Image used for illustrative purposes only



Project details

Focus product	Interzone 954, Intershield 300, Interthane 990, Interthane 990E, Intergard 405, Interzinc 52E, RELEST Putty Contour, Chartek 8E
Year of project	2023
Location	Germany
EPC	Iberdrola
Fabricator	Smulders / Windar Renewables / EEW / Vestas / Valmont
Project size	476MW

Background information

Developer Iberdrola was awarded the project in April 2018 in the tender for offshore wind energy by the German Federal Network Agency (BNetzA).

The €10m geotechnical and geophysical phase has already been finished, where data was obtained to determine the foundations will be anchored at a depth of up to 45 meters in the seabed.

Iberdrola is creating highly skilled jobs during the construction phase of the new wind power project as well as long-term jobs at its base in the port of Sassnitz-Mukran.

The new 476 megawatt installation will supply renewable energy to 475,000 households.

The project

The construction phase began with the foundations which are directly built into the seabed, followed by the AkzoNobel-coated monopiles from EEW's Rostock Factory and also AkzoNobel-coated transition pieces from Windar in Spain.

It is expected to be finished in 2024 and once connected to a power grid, will save around one million tonnes of CO₂ every year.

Our products

Interzone 954 was the coating of choice for protecting these structures due to its proven track record spanning more than 25 years.

For advanced corrosion protection, our Interzinc® 52E zinc rich epoxy was chosen to provide optimum corrosion resistance to ensure long term protection from the elements.

Delivering superior aesthetics with Interthane 990E giving a high level of UV resistance during the assets life time.

The results

This case study is an example of how AkzoNobel connects the dots by combining its capabilities in driving sustainability, quality, and performance, with its specialised wind asset protection, and its focus on product innovation and development.

Francisco Yuste, AkzoNobel's Specifications Selling Manager, said: "We're proud to be involved in such an exciting new project that will provide renewable energy to almost half a million households.

This is a fast-developing industry and a great opportunity to showcase our products performing in the harshest of environments, whilst supporting our efforts to become the market leader and connecting the dots in this industry.

We pride ourselves on the high quality of our coatings and are proud to offer a range of products, protecting blades to nacelles, that cater for all aspects of wind energy assets."

With an unparalleled view of the industry, AkzoNobel brings its expertise to every part of your wind energy assets, as seen with the Baltic Eagle project. We will guide you from protective coating selection to application, techniques and beyond.

Connecting the dots - unleashing the full power of wind energy.