



Anode installation at Burbo Bank offshore wind farm

James Fisher Marine Services* installed Cathodic Protection across 25 individual assets located at Burbo Bank, an offshore wind farm operated by Dong Energy – now Ørsted.

The installation of sacrificial anodes onsite helped prevent internal galvanic corrosion, saving the client time and money in asset maintenance.

The Challenges

- Dong Energy – rebranded to Ørsted in 2017 - required support from James Fisher Renewables (JF Renewables) in implementing cathodic protection across 25 unique assets at its large offshore wind farm, Burbo Bank.
- To prevent galvanic corrosion within the assets, sacrificial anodes needed to be sourced from an external supplier and manufacturer before operations could begin.
- Specialist knowledge and skill would prove essential in transporting and installing the sacrificial anodes safely, efficiently, and cost-effectively across all assets.

The Solution

- In planning and consultation with Dong Energy (now Ørsted) and manufacturers, Impalloy, JF Renewables acquired data from the 25 individual assets to design a custom strategy detailing how the sacrificial anodes were to be installed.
- To ensure maximum safety during the project, JF Renewables' specialist installation team preassembled the sacrificial anodes and their data capture system onshore before moving them to the offshore site.
- The team finalised their plan with a revised schedule, which detailed the loading, prepping, and installation of the anodes across all assets simultaneously.

The Results and benefits

- Having the operational equipment prepared in advance allowed highly skilled JF Renewables' rope access technicians to be deployed onto the wind farm to complete the operation efficiently and with care.
- Despite the complexity of the project, each of the 25 individual assets were successfully fitted with 24 anodes each - all suspended at unique pre-determined heights dependant on the asset's requirements – achieving cathodic protection at all locations.
- JF Renewables aided in the reduction of costs for Dong Energy (now Ørsted) in the long-term maintenance of its offshore assets, producing results with the utmost safety throughout all technical procedures.

*A James Fisher Renewables legacy brand