

INTERMOOR PROVIDES IN-SHORE MOORINGS FOR HYWIND TAMPEN FLOATING WIND TURBINES

ACTEON | ENGINEERING,
MOORINGS AND
FOUNDATIONS

Equinor needed a partner to help secure the floating wind turbines in the fjord during the construction and commissioning phase of the Hywind Tampen project. InterMoor, a brand in Acteon's Engineering, Moorings and Foundations division, provided several pre-lay mooring systems for the safe station-keeping of the units.

THE CHALLENGE

Four floating units needed to be moored inshore over the winter in the fjord at water depth of 80 meters.

Mooring analysis was performed to ensure the robustness of the mooring spreads would secure the four wind turbines during the harsh winter storms along the Norwegian coast. All equipment for the project was delivered from our stock and prior to deployment, all equipment was fully inspected according to DNV guidelines.

CUSTOMER GOAL

The 11-turbine wind farm has a system capacity of 88 MW and will deliver renewable energy to the two oil fields Gullfaks and Snorre. This will be the world's first floating wind farm to power offshore oil and gas platforms. The wind farm will meet approximately 35% of the annual electricity power demand of the five Snorre A and B and Gullfaks A, B and C platforms.

OUR SOLUTION AND ITS COMMERCIAL BENEFITS TO THE PROJECT

InterMoor AS supplied equipment to moor the four units.

The total package of equipment required:

- Eight 15Ton anchors
- 10,000 meters of 76mm dia. R4 chain
- All connections including shackles, kenters and swivels.

All four wind turbines were connected to the prelay mooring spreads in September 2022 and will be secured to the moorings until spring 2023 when the units will be towed to Tampen Field and installed offshore with the other seven units.

Logistics was a key component for success. The equipment provided was from the InterMoor base at Sløvåg which is where the units were assembled and commissioned. This enabled Equinor to utilise vessels performing other operations to assist with this installation during spare time slots.

WORK AT SCALE WITH A PROVEN TRACK RECORD FOR DELIVERY

InterMoor has over 30 years of experience working in Norway and has a large inventory of mooring equipment at two large shore bases in the country. They move an average of one million meters of chain each year.

OPERATIONAL BASES ACROSS THE WORLD

For over three decades, InterMoor in Norway has been delivering mooring equipment to projects inshore and offshore along the Norwegian coastline. Their shore-based facility at Wergeland base in Sløvåg allows them access to eight deepwater quays, priority berthing and dedicated heavy lift and chain handling equipment.

The availability of the equipment on site as well as their local personnel experienced in load-out services, allowed the InterMoor team to ease logistics, minimise mobilisation time and ensure reliability.

To find out more, visit our mooring equipment sales and rental portal or download the full brochure on our website.

COMBINE DIGITAL TECHNOLOGY AND DATA TO ENHANCE OUR EXPERTISE

All equipment provided by InterMoor AS is tagged using radio-frequency identification (RFID) technology, which ensures the quality of the identification of equipment and enhances mobilisation and demobilisation processes at the quayside, in their yard and offshore for easy identification using RFID readers and iPads.

A SOLUTION FOR THE FUTURE

"We are honoured to work on this vanguard project. There is no doubt that fjord moorings will become the norm for future floating wind projects during the construction phase", says David Smith, Managing Director, InterMoor AS. "Future projects are currently being evaluated and the experience gained from mooring the Tampen Hywind project will be of real value for us and our ability to advise our customers for selecting safe and cost-effective mooring solutions."



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