

Project:

HYWIND TAMPEN ELECTRIFICATION PROJECT

LOCATION:

Tampen, North Sea

YEAR:

2017-2020

CLIENT:

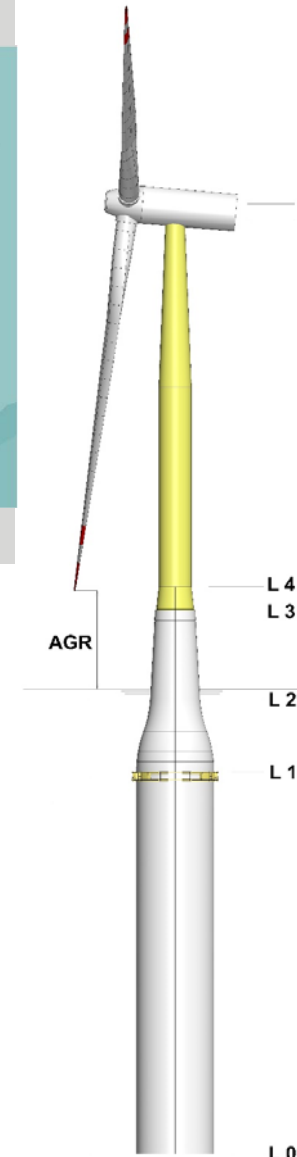
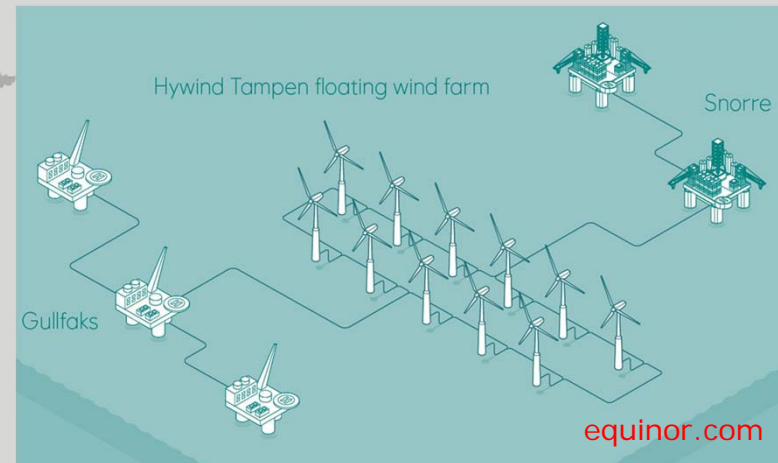
Equinor

SCOPE/PHASE:

Concept Design, Pre-FEED, Support and FEED

PROJECT RESPONSIBLE:

Trond Landbø (tl@olavolsen.no)



Project description:

Equinor is developing a floating wind project for electrification of the oil fields Gullfaks and Snorre, in the Tampen area in the North Sea. The wind park consists of 11 units, 8 MW Hywind Spar type floaters. Dr.techn.Olav Olsen has performed concept development and Pre-FEED studies for a concrete Hywind solution. Additionally, Olav Olsen has performed coupled analyses and structural design for a steel alternative. Based on technical feasibility, cost and schedule Equinor in the end selected the concrete solution for further studies. In the Pre-FEED phase, Olav Olsen has prepared technical documentation and specifications as basis for FEED and EPC tender. OO has further supported Equinor directly during the FEED phase with analysis support work, as well as assisting two of the FEED contractors. During Detailed Design, OO has continued to provide analysis support to Equinor.

Olav Olsen's scope of work includes concept sizing, stability, dynamic analyses, structural analyses and design of substructure, steel tower and mooring lines. Fabrication method, cost and schedule is also included in the scope. The work has also involved a close interface with and analysis support to the wind turbine supplier through Equinor.