

RENTAL OFFSHORE WINDFARM

CLIENT | **NKT**

VESSEL | **NKT VICTORIA**

SERVICES PROVIDED

- Vessel Operability Studies
- Development of Lay and Beach Pull-in methodologies
- Vessel Mooring and Beaching analysis

PROJECT OVERVIEW

We are currently working on an offshore wind farm located approximately 34km from Zeebrugge in the Belgium section of the North Sea. The offshore wind farm will have an installed capacity of 309MW, and is to be installed in Q3 2017.

Swan Hunter were contracted to provide specialist engineering and installation analysis services to NKT for offshore cable installation operations planned for summer 2017 using the newly commissioned NKT Victoria cable laying vessel.

The varying tidal conditions and high tidal current speeds at the beach pull in location required for an in depth analysis study including tidal range, tidal current speeds, wave and weather fore / hind casting, and exploration of various mooring and beaching options for the vessel, investigating vessel anchor moored, tug assisted, or midline barge support scenarios.



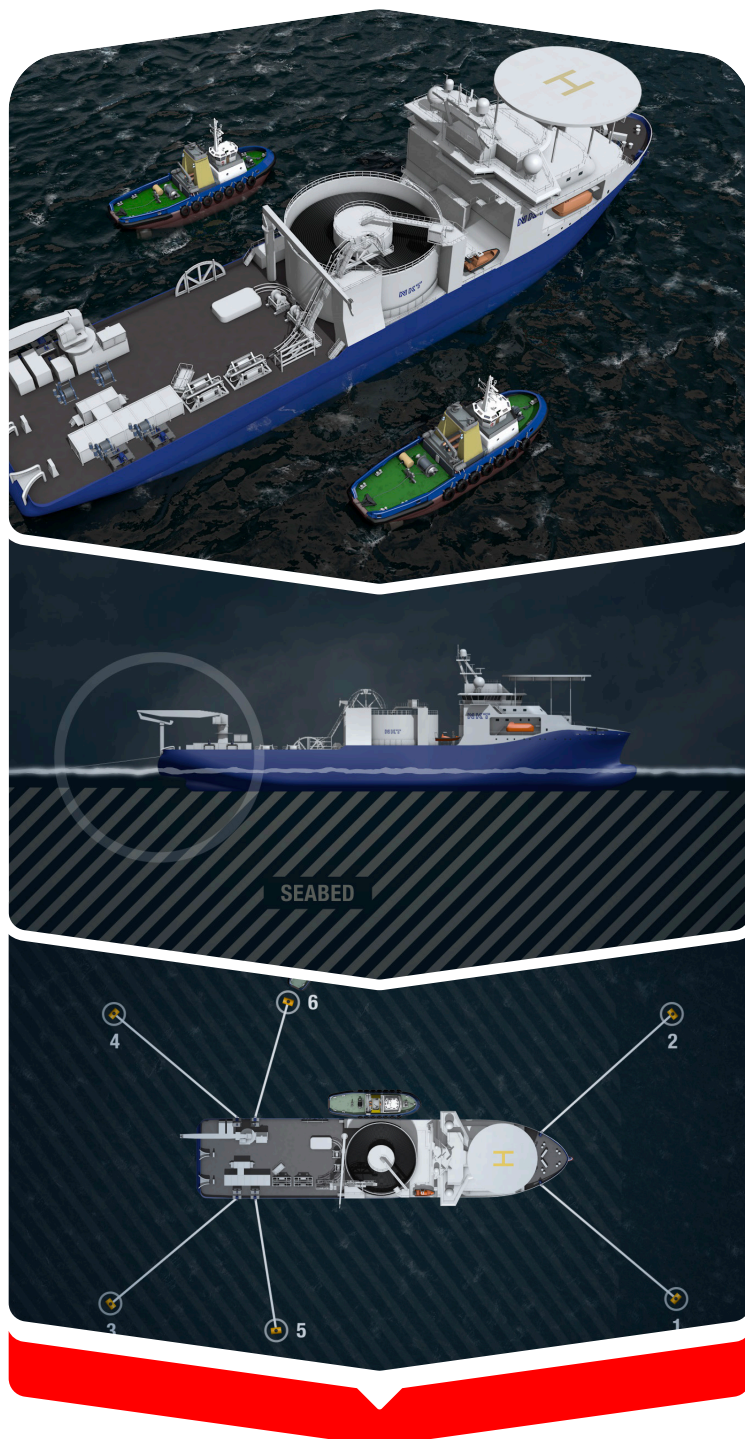
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SWAN HUNTER'S SCOPE OF WORK

- Collation and interpretation of existing wave and weather forecast models, tidal data, and site information
- Development of various cable installation methodologies for beach pull-in operations
- Consolidation of analysis results, reporting, and proposal of chosen solution

DETAILED ANALYSIS

- Investigation of station keeping options including anchor moored, tug assisted, or mid-line supported options
- Operability analysis of options considering tidal cycle time windows
- Define detailed cases for dynamic mooring and beaching analysis using OrcaFlex and GMOOR software



www.swanhunter.com

+44 (0) 191 295 0295

info@swanhunter.com