

At **DOF Subsea** we serve our clients on a global basis by combining our marine operations, subsea engineering and project delivery experience underpinned by our fleet of **Subsea** and **Anchor Handling** vessels

fitmen

DOF

A trusted partner in offshore operations

DCF

Positioned globally

- Operating from 6 continents
- 20 offices worldwide
- 54 vessels (8 on management)
- Head office in Norway

Expert Team

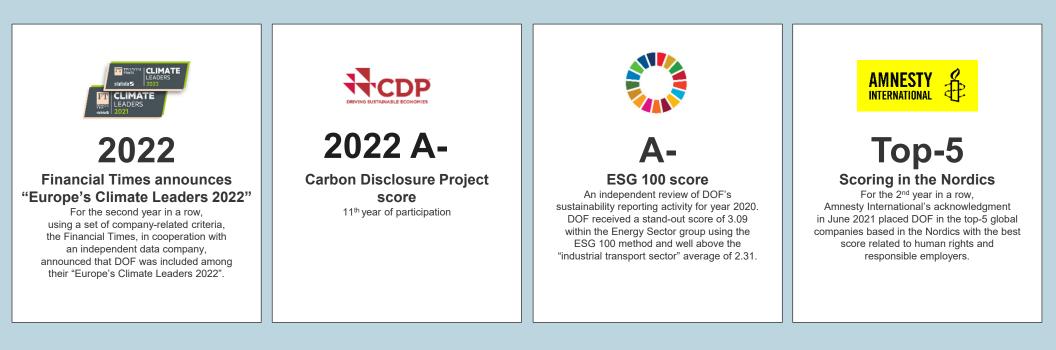




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Maintaining ESG segment leader status





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Regional and Global Vessels

PSV/AHTS Fleet

- •Skandi Feistein (PSV)
- •Skandi Emerald (AHTS)
- •Skandi Atlantic (AHTS





Subsea Fleet

- •Skandi Darwin (MPSV & W2W)
- •Skandi Singapore (DSV)
- •Skandi Hercules (CSV AHT)
- •Skandi Hawk (MPSV)









Global Assets

- Skandi Acergy
- •Skandi Constructor
- Skandi Africa

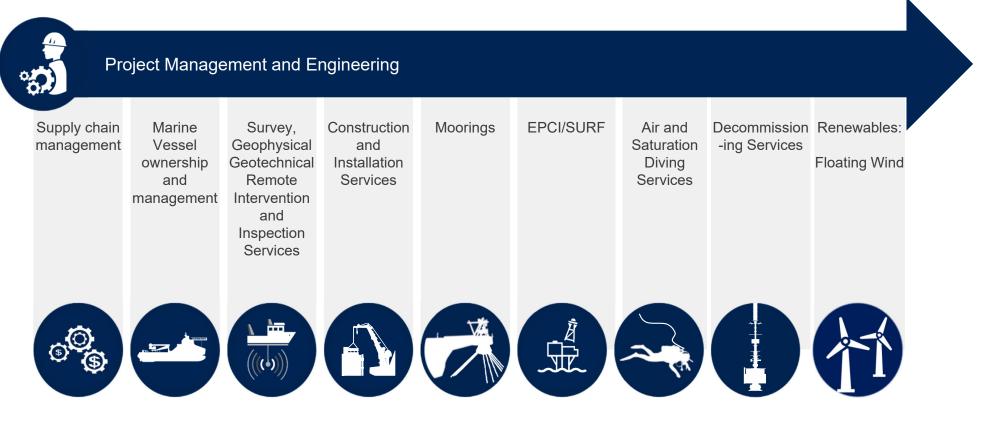






Service delivery capability model

DOF Subsea service delivery provides a single source solution.



Floating Offshore Wind... the new frontier

The push to find stronger more consistent winds has led to exploring ever deeper locations. FOW allows us to harness this resource.

Floating offshore wind farm installation presents many technical challenges.







Optimised, commercial scale



Designing an optimised, commercial scale mooring system requires an amalgamation of design, installationmethodology, enabling assets and years of marine know-how

Competent engineering and installation contractors that own and operate their own assets are in short supply





Case Study:

Hywind Tampen - 88MW Floating Offshore Wind (one of the world's largest floating offshore wind farms)

Hywind Tampen - overview



The world's first renewable power for offshore oil and gas (Snorre & Gullfaks fields, Norway)

- system capacity of 88 MW, world's largest floating offshore wind farm, field 140km off Norwegian coast in 260 – 300m water depth
- floating wind farm consisting of 11 wind turbines upgraded to 8.6 MW each, installed on floating concrete structures with a shared anchoring system, wind turbines connected in a 2.5 km-long inter-array network with a capacity of 66 kV.





Hywind Tampen commercialization – JV KDS

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Project Management & Engineering;

Assembly site management;

Mooring system installation;

Units tow-to-field, and;

Installation of the floating wind turbine units.



- Fabrication
- Concrete Slip Forming
- Mechanical Outfitting







Marine operations during construction – Stord site



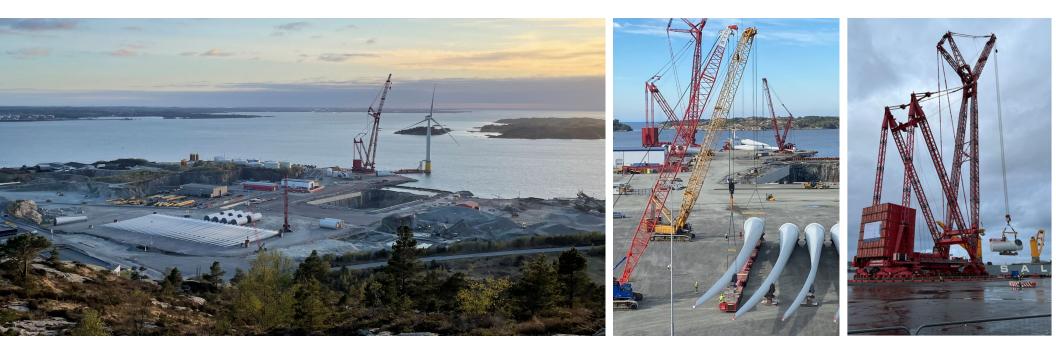
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Marine operations during construction – Dommersnes site

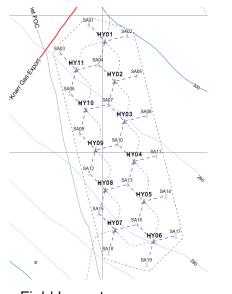


Gulen site

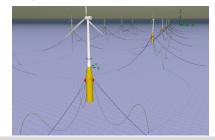


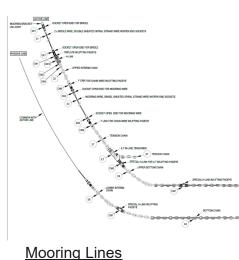


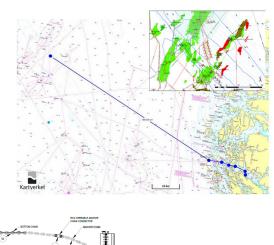
Mooring Installation Design



Field Layout Optimised mooring system 19 anchors 1.7 pr turbine











- 120-ton suction anchors
 - Spiral strand wires
 - Chain

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- Connection elements
- In-line tensioner



- Receipt, storage, prep & loadout of ٠ mooring system
- Pre-installation of mooring system ٠ (incl. tensioning to 300Te for 30min)
- Tow of Floating Wind Turbine (FWT) to Hywind Tampen offshore site
- Hook-up of FWT to the preinstalled mooring system

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Hywind Tampen







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