FIXED AND FLOATING WIND PRODUCT SOLUTIONS

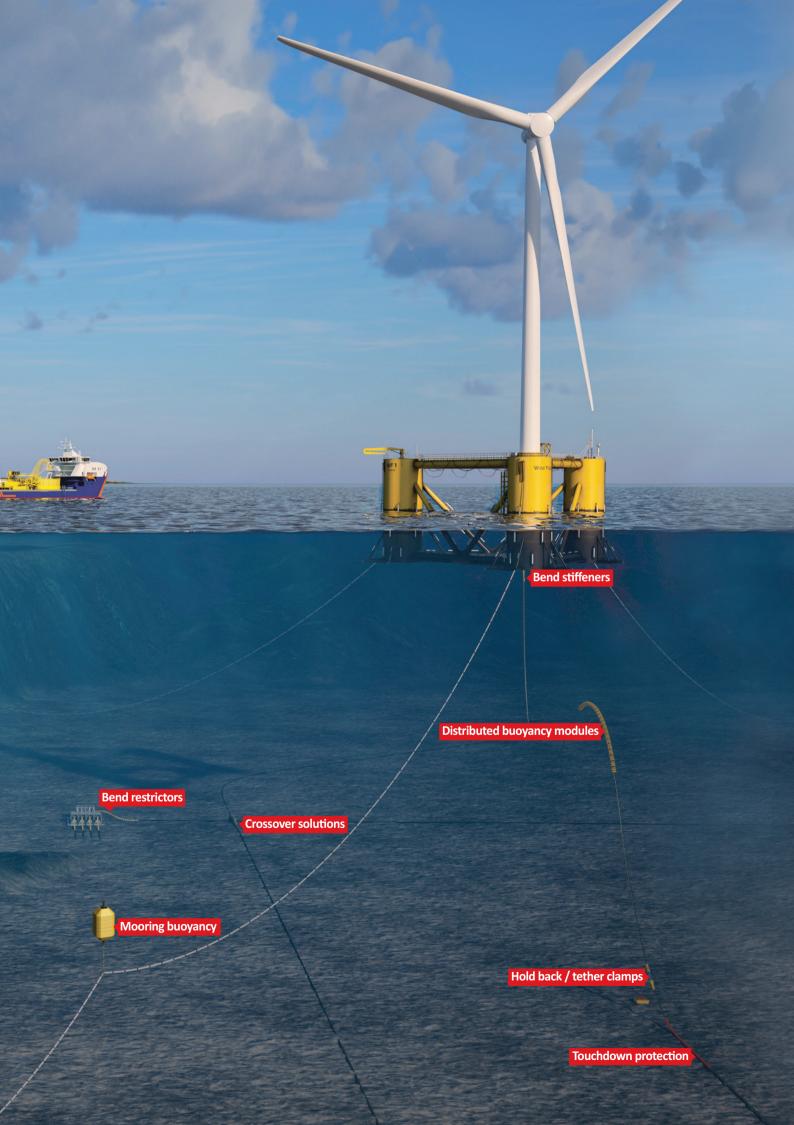
Benefitting from extensive and unrivalled global experience in the offshore energy sector, Balmoral provides a comprehensive range of mooring solutions and cable accessories to the floating and fixed wind markets supported by in-house technical, engineering, manufacturing and testing services.

- Distributed buoyancy modules
- In-line mooring buoys
- Balmoral FIBREFLEX® cable protection system (CPS)
- Midwater arches
- Mooring buoyancy
- Balmoral T-CLAMP® hold back/tether clamps
- Ballast modules
- Bend stiffeners and connectors
- Hydrostatic and mechanical test services
- PU/composite bellmouths
- Balmoral DURAGUARD® touchdown protection
- Bend restrictors
- Crossover solutions
- Surface/subsurface buoyancy



INTEGRATED, RELIABLE BUOYANCY AND PROTECTION SOLUTIONS FOR FIXED AND FLOATING WIND





Floating wind solutions

Balmoral has, for over four decades, provided engineered buoyancy, protection and insulation product solutions for the harshest subsea environments in the world. The experience gained in consistently delivering the highest quality products has been transferred to offshore wind where the company's patented technologies are highly suited to floating offshore wind installations.

These products, which form the core of the business, are tried, tested and supported by an extensive track record and industry leading installation times, focusing on vessel deployment optimisation and total cost of ownership.

Fixed wind solutions

The company offers a range of cable protection systems (CPS) with a unique integrated stability option for fixed offshore wind inter array and export cables. Balmoral's patented FIBREFLEX® CPS solution predominantly comprises standard dynamic units (SDU's) specifically designed for the active environment within the dynamic section of the cable installation. Solutions are provided for varying monopile apertures as well as J-tube and I-tube options for jacket structures.

Balmoral Subsea Test Centre

Hydrostatic testing

The Balmoral Subsea Test Centre offers 23 test vessels most of which allow tests to be monitored remotely.

Ranging from 1010mm (3'3") to 10,400mm (35'6") in length, with internal diameters of 360mm (14") to 2500mm (98") and pressures to 700bar, allowing us to perform testing to ensure subsea components are qualified for use in deepwater environments reaching depths of 7000msw.

Test rig

A fully comprehensive test rig for offshore wind-related products comprises winches, tower, monopile and J-tube entry options designed to simulate subsea interfaces and varying installation parameters.

Routine testing includes bending and axial stiffness, load, curvature, axial, operational and safety performance.



































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