FLOATING WIND SOLUTIONS

NEXT STEP TOWARDS COST-EFFECTIVE FLOATING WIND ENERGY
SBM Offshore is a leading global contractor, providing floating production solutions and mooring systems to the offshore energy industry, over the full product life-cycle. The company is recognized in the industry as a key technology pioneer. The Company’s main activities are the design, supply, installation, operation and the life extension of Floating Production, Storage and Offloading (FPSO) vessels. This extensive experience is being leveraged for the Company’s Renewable Energy solutions.

KEY FACTS

- More than 500 floating systems designed, constructed and installed
- Almost 60 years of performance track record for mooring innovation worldwide
- 40 years installation track record with own fleet
- Strong financial backbone
- More than 12 years of in-house marine renewable energy technology development
- Management of large projects over the full product lifecycle
- SBM Offshore offers finance solutions
- Local partners in projects

SBM Offshore offers a wide range of solutions for floating wind projects

Commercial scale floating wind projects require an experienced EPCI contractor

- SBM Offshore has extensive performance track record of delivering floating EPCI projects on time and within budget.
- Expertise across the range from small terminals to very large floating units.
- Solutions fit for purpose from moderate to extreme environments; single units to multiple units, leveraging its standardization expertise.

<table>
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<th>Terminals</th>
<th>2000: FPSO Sea Eagle (Nigeria)</th>
<th>2006: Thunder Hawk (US Gulf of Mexico)</th>
<th>2016: FPSOs Cidade de Marica &amp; Cidade de Saquarema (Brazil)</th>
<th>2017: Prelude FLNG (Australia)</th>
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<td>Over 450 terminals delivered</td>
<td>Tower Soft Yoke with 5 jumpers</td>
<td>Semi-submersible platform (exposed to hurricanes)</td>
<td>FPSO Generation 3 standardization • 25% fewer man hours • 25% less time required to complete module integration</td>
<td>The Prelude Turret Mooring System is designed to withstand category 5 cyclonic conditions</td>
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The next step towards reduced cost of floating wind energy

Building on its leading experience in floating offshore systems and mooring solutions, SBM Offshore in cooperation with IFP Energies Nouvelles has developed an innovative floating wind structure that addresses the specific requirements and constraints of offshore wind turbines.

SBM Offshore Wind Floater – Exceptional Performance
- Reduced tower and wind turbine loads and better production quality through very limited nacelle motions
- Lightest structure on the market
- No active ballast or other active systems
- Catenary cable configuration
- Reduced seabed footprint and no chain contact with seabed
- Reduced risk through field proven components

SBM Offshore Wind Floater – Optimized Installation
- Anchoring compatible with all soil conditions
- Limited draft allowing quay-side wind turbine installation
- Wet tow with tugs
- Installation reversible for major maintenance or decommissioning

SBM Offshore Wind Floater – Industrialization
- Flexibility and supply chain based fabrication / assembly through modularity
- No dry dock required
- Assembly with standard yard means

SBM Offshore has been selected by EDF Energies Nouvelles to provide its proprietary floating wind solution (supporting 8 MW wind turbines) for a pilot project to be installed in the Mediterranean Sea*.

*The project is subject to achieving committed financing, which would result in a contract to include engineering, procurement, construction and installation services for three floating systems to be installed offshore France.
The sole intention of this factsheet is to share general information.

FULL LIFE-CYCLE COMMITMENT TO PROJECT SUCCESS

Further contributes to reduction of floating wind cost of energy

Technology ability & know-how

With its global presence and French-based R&D Testing Centre in Carros, SBM Offshore is well-positioned to contribute to the evolution of technology for the Offshore Renewables industry. SBM has also been developing a new generation of breakthrough Wave Energy Converter.

KEY FACTS

- 2% of annual revenues re-invested in Technology development
- >100+ staff in global team dedicated to Technology
- >170 active SBM Offshore patent families
- 2,900m mooring water depth achieved using SBM Offshore’s Technology