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## Press release

Tuesday, 24 September 2024

### **THE AMERICAN BUREAU OF SHIPPING (ABS) APPROVES THE OO-STAR FLOATING WIND FOUNDATION CONCEPT FROM BOUYGUES TRAVAUX PUBLICS**



**The American Bureau of Shipping (ABS) has issued Approval in Principle (AiP)<sup>1</sup> to the OO-STAR concrete semi-submersible floater from Bouygues Travaux Publics, a subsidiary of Bouygues Construction. It can support wind turbines of more than 20 MW in harsh offshore environments. This achievement is the first step in the**

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<sup>1</sup> AiP was officially granted to FWS, a subsidiary of Bouygues Travaux Publics, which holds the intellectual property rights (IPR) for the OO-STAR concept.

**company's deployment in the U.S. floating wind market as an EPCI (engineering, procurement, construction, installation) contractor with the OO-STAR concept.**

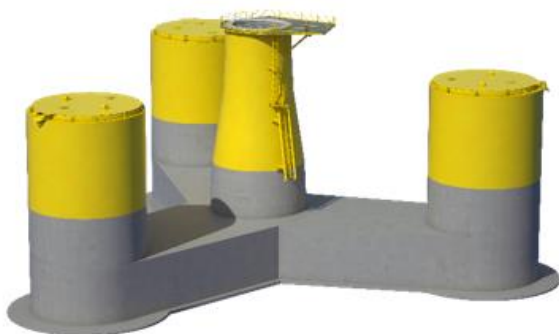
The OO-STAR floater, which includes a mooring system and general outfitting, was designed according to a database of wind and metocean patterns, both for a test site in the North Sea and to accommodate a turbine of over 20 MW. The design also took account of constructability and installation constraints, a feature that is characteristic of Bouygues Travaux Publics' approach.

This AiP confirms that the proposed semi-submersible solution is not only feasible, but also compliant with the requirements of ABS rules and standards, while validating the safety of the design. It also proves the suitability of Bouygues Travaux Publics' technology and engineering practices.

Bertrand Burtschell, CEO of Bouygues Travaux Publics, said: "The AiP issued by ABS is significant for us as it marks the first step in certifying a credible design, fit for construction and industrialisation. Calling on our recent experience of mass producing the 71 concrete gravity-based structures on the Fécamp wind farm, we are working hard on the design of lean and efficient production lines aimed at securing the delivery of OO-STAR floaters at an industrial scale and at a pace compatible with cost-efficient project execution plans."

The approval also clears the path for further project certification through the rollout of a 1:1 scale prototype or a pre-commercial project. Bouygues Travaux Publics is now well positioned to accelerate the commercialisation of this technology and to address the increasing worldwide demand for a lower installed cost for floating wind turbines through sustainable and efficient offshore wind energy solutions.

**Bouygues Construction, a leading player in worldwide low-carbon energy production**



Excelling in hydrodynamic performance and designed for scalability, the OO-STAR solution supports the industry's shift towards larger wind turbines, thereby enhancing the efficiency of future developments. It also fosters a sustainable and local economy by utilising regional materials and labour, which reduces the carbon footprint of projects, and offering potential for 100% reuse of its constituents after decommissioning. With its extended design life and minimal maintenance needs, the OO-STAR concrete foundation promises to

be a sustainable, economically efficient solution perfectly aligned with American floating wind and industrial ambitions.

A leading player in low-carbon energy production, Bouygues Construction is committed to delivering sustainable infrastructures that respect the environment and local communities. OO-STAR demonstrates the company's commitment to developing innovative solutions that meet current needs and anticipate future challenges.

Bouygues Construction has proved its expertise and ability to propose new solutions for low-carbon energy production through projects such as the Fécamp offshore wind farm and the Flamanville nuclear power plant in France, as well as the Hinkley Point C nuclear power plant in the United Kingdom.

### **ABOUT BOUYGUES CONSTRUCTION**

Bouygues Construction employs 32,500 people around the world, all driven by the greatest and most exciting responsibility of all - building for life. In more than 60 countries, we improve daily life for millions of people by creating structures and buildings that serve life and address all our needs: shelter, healthcare, education, work, entertainment, travel, access to low-carbon energy, etc. At every stage of a project, we put all our expertise and our experience into designing, renovating and building differently so that we can meet the critical imperatives of the environmental transition and achieve construction that is sustainable and less resource-intensive. Every day, we make sure that everyone is safe, and that human rights and ethical standards are respected. Committed to strong values, the men and women of Bouygues Construction work passionately alongside their customers and partners so that our footprint becomes ever more positive.

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