



Turbine Components Arrive for 30-MW French Floating Wind Pilot

The key components for a 30-MW floating wind pilot project off the French coast have been delivered to the newly established wind terminal at Port-La Nouvelle.

The Eoliennes Flottantes du Golfe du Lion (EFGL) project, a joint venture between Ocean Winds and Banque des Territoires, is set to deploy three Vestas V164 wind turbines, each with a capacity of 10 MW. These turbines will be the most powerful ever installed on floating foundations in France.

Currently, the turbine components are being stored at the port while preparations continue for the arrival of the floating platforms in the coming months. Construction of these platforms is ongoing at Grand Port Maritime in Marseille, with completion anticipated by April 2025. The project will utilize Principle Power's floating technology to support the turbines.

Installation at the offshore site is planned for late spring 2025. Developers expect the EFGL project to offer critical insights that will support the expansion of floating wind energy across the Mediterranean region.

Baltic Power Offshore Wind Project Moves Forward with Topside Deliveries

The Baltic Power offshore wind project has reached a key milestone with the arrival of two topsides at the Port of Aalborg, Denmark. These structures were transported from Gdynia, Poland, marking the successful completion of the prefabrication phase.

Semco Maritime is now set to equip the substations with essential components, including transformers, switchgear, and control systems, preparing them for the next stage of the project. Each substation, initially weighing 1,300 tonnes, will increase to approximately 2,500 tonnes once fully outfitted.

A joint venture between Orlen Group and Northland Power, the Baltic Power wind farm is located 23 km off the Polish coast near Choczewo. The project's offshore installation is scheduled to commence in early 2025, with the substations expected to be deployed by September 2025. Meanwhile, onshore infrastructure development has been in progress since 2023.

Once operational, the 1,140 MW wind farm will play a crucial role in bolstering renewable energy capacity in the Baltic region.





Hengtong to Supply Dynamic Offshore Cable System for ESTEYCO's WHEEL Project

Hengtong has secured a contract with ESTEYCO to engineer, manufacture, and deliver a complete dynamic offshore cable system for the WHEEL Project, an innovative floating offshore wind initiative.

Set for installation in Gran Canaria, Spain, the project showcases ESTEYCO's advanced floating wind foundation concept, backed by the WHEEL Consortium—a collaboration of industry leaders including 2-B Energy, EnBW Energie Baden-Württemberg AG, PLOCAN, REPNAVAL S.L., ROVERMARITIME SERVICES, CEMEX, Bridon-Bekaert The Ropes Group, Vicinay Marine, IHCantabria, Boskalis, and ESTEYCO.

This partnership marks a significant step forward in dynamic cable technology, reinforcing the project's role in advancing floating offshore wind energy.



Ulstein to Design Advanced Heavy Lift Vessel for Penta-Ocean Construction

Penta-Ocean Construction, a leading Japanese general contractor, has partnered with Ulstein Design & Solutions B.V. to develop a next-generation heavy lift vessel for offshore wind foundation installation.

The vessel will be based on the ULSTEIN HX118 design and feature a 5,000-ton Huisman main crane along with the ULSTEIN U-STERN™, a groundbreaking innovation that enhances monopile installation efficiency.

Following feasibility and concept studies conducted in 2023, Penta-Ocean Construction selected Ulstein due to its proven expertise in crane vessel design. The HX118 design offers a flush work deck, advanced lifting capacity, dynamic positioning (DP) capability, and enhanced accommodation—making it the largest X-BOW® vessel ever built at 215 meters in length and 56 meters in width.

A key feature, the U-STERN™, enables longitudinal storage and upending of monopiles along the ship's centerline, reducing overhang and allowing the vessel to face waves during installation. This not only minimizes ship motion but also enhances fuel efficiency, making it a game-changer for offshore wind foundation installation.

This collaboration represents a major advancement in offshore wind infrastructure, reinforcing Penta-Ocean Construction's commitment to supporting Japan's growing offshore wind sector.



Heavy-Lift Vessel Sun Rise Transports Transition Pieces for CVOW Project

The heavy-lift vessel Sun Rise is making its way from Aalborg, Denmark, to the U.S., carrying 18 transition pieces (TPs) for the Coastal Virginia Offshore Wind (CVOW) project. This shipment is part of a larger delivery of 176 TPs, managed by CS Wind Offshore, for the 2.6 GW offshore wind farm.

After arriving in Aalborg on January 3, 2025, and departing on January 8, the loading process proceeded smoothly despite strong winds. To date, 69 transition pieces have been delivered for the CVOW project, with operations progressing efficiently due to strong coordination between the vessel crew, project team, port authorities, and crane operators.

The transition pieces will be unloaded at the Portsmouth Marine Terminal in Virginia, where DEME will handle offshore installation, approximately 43 kilometers from Virginia Beach. The first batch was delivered in June 2024, and the project remains on track.

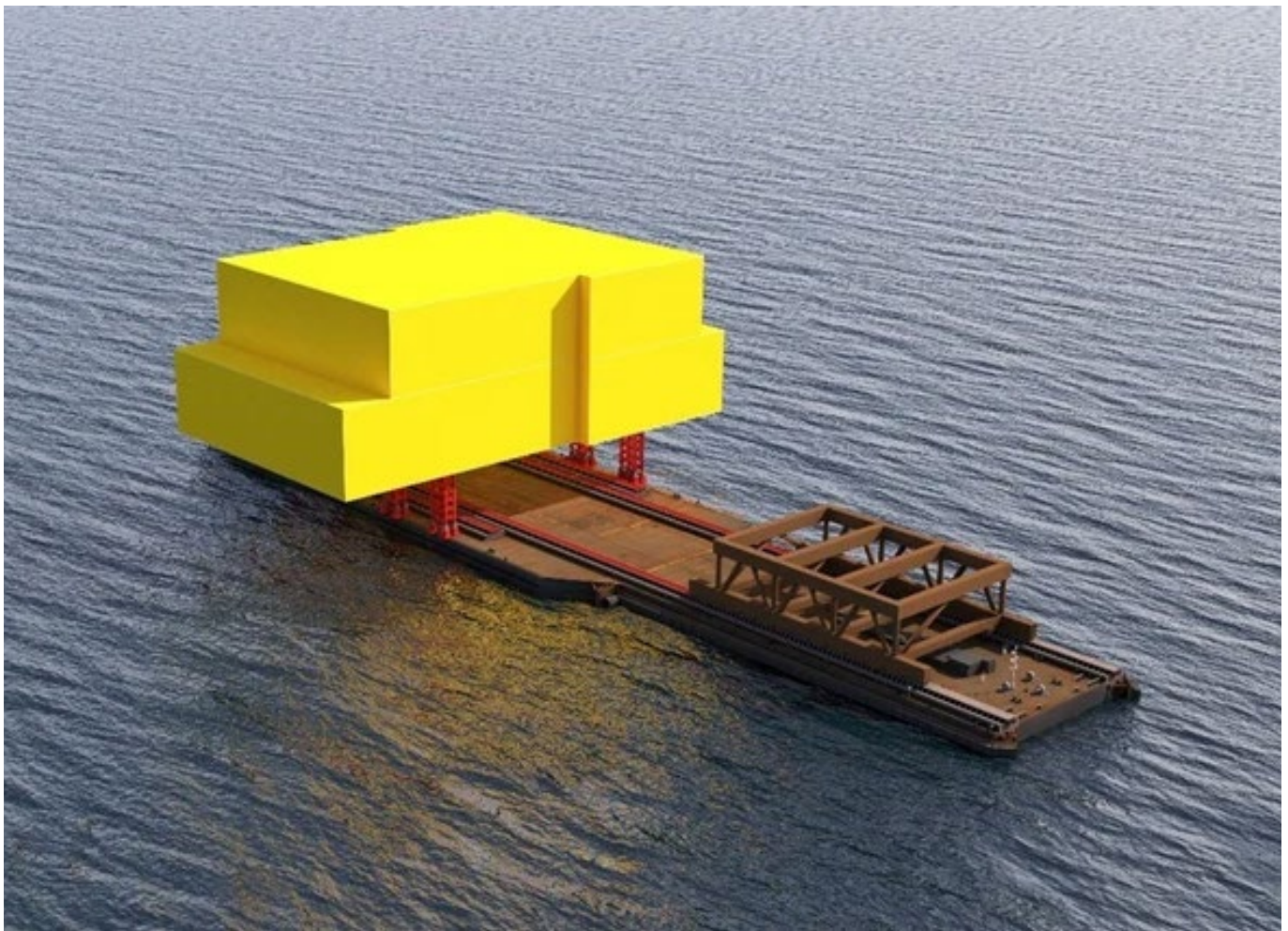
Once completed, the CVOW wind farm will feature 176 Siemens Gamesa 14 MW turbines, capable of supplying renewable energy to approximately 660,000 homes, marking a significant milestone in U.S. offshore wind expansion.





HEEREMA

Heerema to Construct New Float-Over Barge for TenneT's 2GW Offshore Platforms



Heerema Marine Contractors has secured a contract with TenneT to build a specialized float-over barge, designed for the installation of over 30,000 mT 2GW Offshore Substations (OSS). These substations are essential for expanding the Dutch and German electricity grids and supporting Europe's offshore wind energy goals.

This investment aligns with Heerema's commitment to innovation and sustainability in the maritime and energy sectors. The new barge will enhance installation capabilities for ultra-heavy topsides, playing a key role in the 2GW program, which aims to strengthen the North Sea electricity grid for

renewable energy.

TenneT's 2GW program is a crucial part of European climate strategies, supporting the transition away from fossil fuels. The initiative plans to install over 14 offshore DC power converters in the North Sea, ensuring a more stable and efficient energy network.

This collaboration between Heerema and TenneT highlights the importance of long-term investments in offshore infrastructure, reinforcing Europe's renewable energy ambitions while enabling the seamless integration of offshore wind power into national grids.

IDOM's MARMOK-ATLANTIC: Advancing Wave Energy Technology

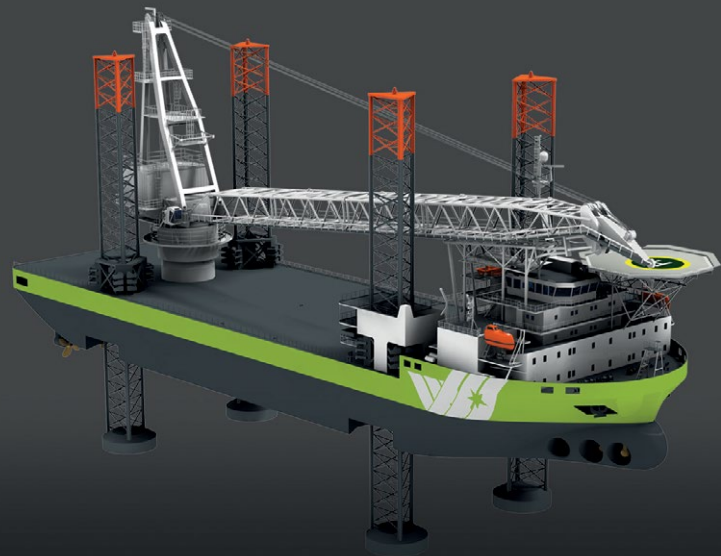
IDOM Consulting, Engineering, and Architecture S.A.U. is pushing the boundaries of wave energy harvesting with its MARMOK-ATLANTIC technology. This point absorber utilizes the Oscillating Water Column (OWC) principle, converting wave motion into a reciprocating airflow that drives an air turbine to generate electricity.

The MARMOK device consists of a spar element enclosing a cylindrical water column. As waves excite the structure, the water column moves like a piston, compressing and expanding an air chamber to produce power efficiently. The absorbed energy is then transmitted to shore via a subsea cable.

Having successfully demonstrated offshore viability with a low-power grid-connected prototype, IDOM is now enhancing the system under the EuropeWave project. This next phase will integrate lessons from previous test campaigns, focusing on greater power performance, durability, and maintainability—ensuring that MARMOK remains a reliable and scalable solution for the future of wave energy.



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