

## **MODEC Secures AiP for i-TLP™2, an Innovative Offshore Wind Turbine design from ABS**

**Tokyo, July 31, 2025** – MODEC, Inc. ("MODEC") received Approval in Principle (AiP) from the American Bureau of Shipping (ABS) for its groundbreaking concept, "iTLP2-FOWT", referred to as "i-TLP™2".

This development is part of MODEC's commitment to contributing to the energy transition by providing innovative offshore wind turbine solutions that deliver electricity at Low Levelized Cost of Energy (LCOE).

In addition to CAPEX reduction, the development of i-TLP™2 is guided by the following principles:

- Use of turbines already available on the market.
- Maximum power output from limited wind farm area.
- Fast, large-scale supply –quickly operational.
- Installation on any seabed.



i-TLP™2 (image)      <https://youtu.be/xAiAh5PAthE> (short video) \*

Currently, bottom-fixed offshore wind turbines are typically installed at sea depths of up to 50 meters. Beyond this depth, floating offshore wind turbines, such as semi-submersible and spar designs, have been used. However, these floating concepts involve catenary mooring; which demand turbines to cope with large wave-induced motion and require a large footprint for each unit.

With its TLP-oriented features, i-TLP™2 minimizes floater motions and seabed footprint. It incorporates significant improvements from the first-generation MODEC TLP, enabling rapid construction and turbine integration at land-based sites, as well as in-situ heavy maintenance of the turbines after installation.

*"Our goal is to deliver a solution that enables affordable electricity with low greenhouse gas emissions," said Koichi Matsumiya, Chief Technical Officer of MODEC. "We chose not to announce the previous i-TLP1 design, despite its lower LCOE compared to semi-submersibles and first-generation MODEC TLP, because we aim to address all known challenges. We also strive to tackle unknown challenges with humility to deliver the best solution we can. To make the concept into reality, we seek partners to help us demonstrate our concept through practical applications."*



Photo from the AiP award ceremony

(Right to Left) Mr. Rob Langford, ABS Vice President, Global Offshore Renewables  
Mr. Koichi Matsumiya, Chief Technology Officer, MODEC Group

MODEC is also developing an innovative bottom-fixed wind turbine platform concept, designed to install up to 100 meters water depth. While recognizing significant challenges that exist compared to the development of i-TLP™2, MODEC is committed to addressing these challenges with humble and diligent efforts. The company will continue to explore innovative solutions to advance further its deep-water bottom fixed concept.

MODEC is renowned for providing competitive floating solutions in the offshore oil and gas industry, recognized as a leading specialist in floating production systems such as Floating Production Storage and Offloading (FPSO) vessels and oil and gas TLPs. Leveraging its capability and experience, and its pioneering spirit, MODEC remains dedicated to the early realization of offshore wind turbines and will continue its efforts in this field.

\*The full version of the i-TLP™2 video (7:28) is available here: <https://youtu.be/8w8k35VZlkw>

### **About MODEC**

MODEC is a leading provider of floating production solutions such as Floating Production Storage and Offloading (FPSO) vessels to the offshore oil & gas industry. MODEC performs Engineering, Procurement, Construction and Installation (EPCI) activities for FPSOs, and further by owning and operating its own FPSOs, it provides oil companies around the world with comprehensive and competitive solutions for oil & gas production services.

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