

Offshore Floating Wind F-TLP™

Market Leaders in TLP Design

OSI Renewables applies over 40 years' experience with floating offshore structures and an extensive track record of supplying 95% of the tension leg platform (TLP) systems in the world.

OSIRenewables™ F-TLP™

Incorporating all the performance advantages of a fixed platform whilst overcoming the challenges of mid water floating wind environment OSI Renewables™ new disruptive technology (patent pending) unveils an impressive cost competitive design and installation process, with steel weights of up to 50% less than a typical semi submersible structure.

Dynamic Tendon Wind Structure Solution

The compact design with minimal components ensures versatility for in country manufacture, easy handling and complete onshore assembly providing high local content.

The slimline moored system, with a pre-installed seabed template and reduced footprint lends itself to standard port water depths and standard installation vessels reducing environmental impact relative to other solutions.

System Advantages

- Increased capacity factor
- Scalable to 20+ megawatt and 150m water depth
- Assured dynamic performance similar to fixed wind foundations
- Declination angles < 1 deg even in Hs=10m storm
- Accelerations at the turbine < 0.10 g in typical N. Sea Hs=10m
- Minimizes installation time and downtime for the operator
- Up to 50% weight saving based on 16MW turbine 2,300 tonnes v's typical semi-submersible 4,500 tonnes

Features

- Central compression member
- Tendons maintain tension under extreme loads
- Taut mooring resists side loads
- Minimal frontal area reduces wave load
- Stable and low motions and declination



40+ Years Deepwater Expertise

95% TLPs Installed Worldwide

OSIRenewables™ TLP

Offshore Floating Wind F-TLP™

Modular or Complete Turnkey Solutions

- Includes the complete package of seabed mooring, hull, turbine, pull-in & installation
- Scalable to 20+ megawatt and 150m water depth
- Optimal Integral system includes mooring, structure, tower and turbine via rigorous global design and analysis
- Integrates with any OEM WTG

Benefits Integral Design

- Maximises turbine output
- Ensures stability between the platform and wind turbine
- Minimizes fatigue stresses applied to the structure
- Extends system utilisation and design life
- Optimizes wind power generation

Global Service & Support

OSI Renewables™ is a part of the OSI portfolio. Through our global footprint in 14 countries and more than 1,200 employees we leverage our deepwater engineering & analysis, manufacturing, testing, and offshore operational experience to provide our integrated systems and services. To help meet local content requirements or support manufacturing needs of OEM's and developers our OSI group of businesses can leverage our global footprint, world-leading engineering, precision manufacturing, materials & welding, custom molding, & mechanical testing disciplines. Please contact us to discuss your project needs.

“The value that we bring to developers is a unique turnkey, ‘one-stop-shop’ approach with a completely integrated floating wind package from seabed connections to turbine that has considered all the elements, is optimised through global analysis, which significantly reduces installation costs while simplifying procurement”.

GARRY STEPHEN, GROUP VP, UK & ASIA

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