

Modular floating platform for industrial-scale floating offshore wind

Marine Power Systems (MPS) is advancing modular floating platform technology to enable industrial-scale floating offshore wind. By refining fabrication, assembly and cost modelling, they are making deployment faster, more efficient and more commercially viable.

Before

MPS had been developing its PelaFlex floating platform, alongside a fabrication and assembly strategy and cost model to support large-scale deployment. While the concept was strong, there was a need to refine and accelerate these processes to improve accuracy, efficiency and commercial readiness. To achieve this, MPS partnered with OWGP through the WEST programme, identifying it as a clear route to strengthen its approach.

During

Through the WEST programme, OWGP and Xodus worked with MPS to refine its fabrication and assembly strategy for the PelaFlex platform. A structured approach enabled the team to develop a more detailed and robust cost model, improving accuracy and confidence in large-scale deployment. This work helped streamline planning and provided a clearer pathway to industrialisation.

After

MPS now has a stronger, more commercially focused business model, enabling delivery of a high-quality, lower-cost floating platform directly to the quayside. With improved cost certainty and a refined strategy, the company has secured a range of global partnerships and is progressing towards large-scale demonstration and deployment.

How does this help deliver the IGP?

- Advances floating offshore wind through scalable platform design
- Reduces costs through modular construction and optimised fabrication
- Strengthens UK capability in floating wind technology and deployment
- Supports global collaboration and export opportunities

A modular approach to floating platforms is unlocking faster, lower-cost deployment for the next generation of offshore wind.



Global partnerships secured



Megawatt-scale demonstrator underway

“OWGP WEST support fast-tracked our traction across UK, Europe and global markets.”

Dr Gareth Stockton
CEO | Marine Power Systems
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Industrialised foundations and substructures

