





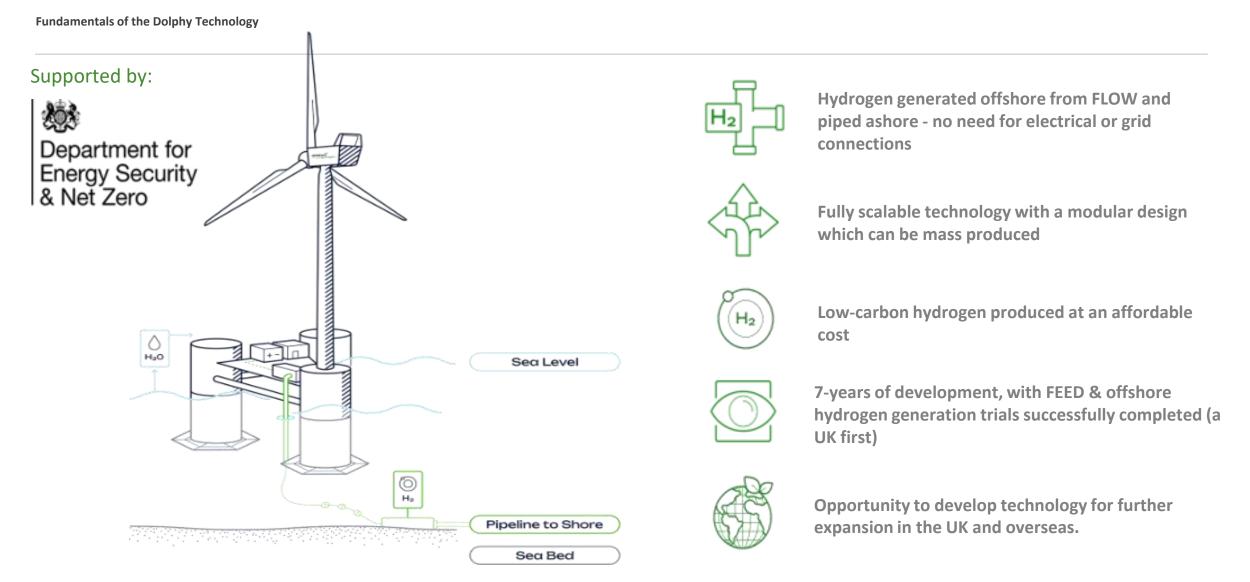


# A First of a Kind Project Producing Offshore Hydrogen From Floating Wind











Hydrogen Demonstration trials

Trial to demonstrate hydrogen production in floating marine environment Successfully completed in Summer 2024 No HSE incidents

No unexpected technical issues identified Lessons learned:

- Cost and lead time immature market and unstable market conditions make project planning challenging
- EPC, EPCM, EPCI? Contracting strategy is a key part of managing for success
- Existing Regs apply Regulators have been supportive. Some new regulations are being developed/amended but many are already fit for purpose





# MH:HK Project Outline

- 10-15MW Dolphyn demonstration unit followed by expansion up to 135MW generating >10,000 tons H2 p.a.
- Hydrogen pipeline to shore and onwards to reception facility and potential link to HyLine Cymru
- Opportunity for wave/tidal projects in PDZ to connect to Dolphyn - no need for any electrical connection to shore
- V Multiple hydrogen offtakers identified





Scope of Works Being Progressed Under Innovate UK Programme



**Project Management** 

Looking Further Forward

- MH:HK would be a "World First" for offshore hydrogen generation from FLOW.
- Develop the project towards FID and look to increase UK content
- Prove the Technology in Wales and prepare the Floating Offshore Wind supply chain ahead of Round 5
- Deliver more than 10,000 tons per annum of Hydrogen to Milford Haven Port Area and the wider South Wales industrial region (via HyLine Cymru)
- Long term could create a truly affordable source of low carbon hydrogen at GW scale bringing significant energy security and decarbonization benefits
- If we don't seize this opportunity in the UK other nations will take our leading position.





# Thank you!

## MILFORD HAVEN: HYDROGEN KINGDOM

n opportunity to deliver a world leading position in the ffshore generation of affordable, low carbon hydrogen at scale.

Nikhil Hardy – Managing Consultant (Bristol)

nikhil.hardy@erm.com











dolphynhydrogen.com

