

Floating Offshore Wind in the South West Approaches

**Marine Energy Wales
Annual Conference 2019**



**Matt Hodson
Marine Hub Operations Director**

Floating Offshore Wind Technology

Offshore Wind Technology coupled with Oil & Gas Floating Foundation Principles = Low Technology Risk



IDEOL - France



Principle Power – Portugal, Scotland, France, US

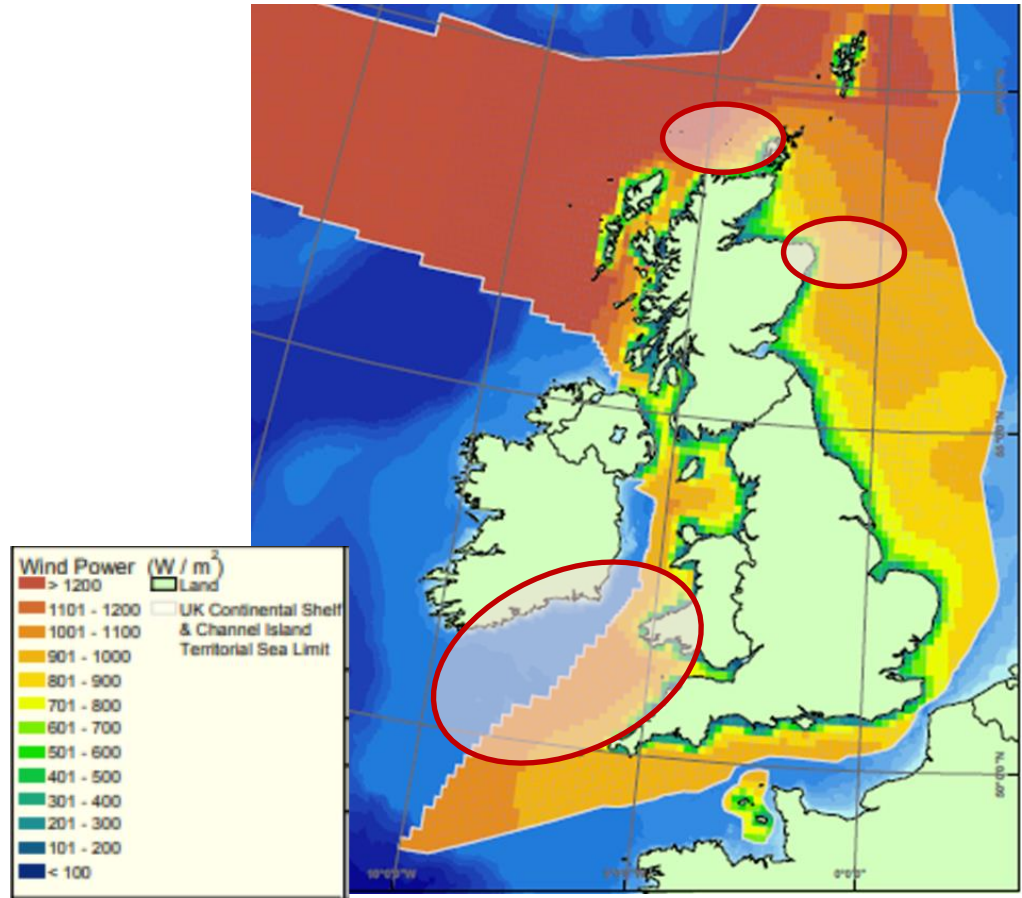


Equinor – Scotland, Norway

Floating Offshore Wind Deployment Areas

Key Deployment Factors

- Wind Resource
- Geographical Grid Balancing
- Water Depth
 - 40-60m minimum
 - 100m-250m optimum
- Assembly & Port $\leq 360\text{Nm}$
- Power & Grid Access
- Marine Traffic/ Marine Users



Opportunities

FLOW Differences?

- Mass Produce 'Floaters'
- Construct in Sheltered Waters
- Embark Largest Turbines – 10-15MW
- Can Access Best Wind Resources

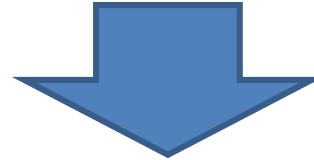


The Opportunity - UK

- Form an essential part of the UK's low carbon Future

Technology Challenges?

- Moorings & Anchors
- Dynamic Cables & Infrastructure
- IO&M Processes, Systems, Ships
- Shipyards, Ports, Supply Chain



The Opportunity - Global

- Develop key industrialisation processes, services and products – take the lead in a global industry

CRITICAL ISSUE AREAS

To unlock FLOW in Britain and help us establish ourselves as a world-leading FLOW exporter, we need:

- a governance and leadership framework to provide the strategic direction to public and private sector stakeholders;
- Task Force Framework – Proposed make-up to BEIS after 2nd South West FLOW Seminar.
- a clear policy commitment to develop a commercial framework for the large-scale commercial deployment of floating offshore in Britain;
- Policy Commitment – BEIS and FLOW Industry to work on FLOW Policy Position paper, drawing on CIOS LEP Ministerial Submission
- a coherent communications strategy to give confidence to project developers, technology developers, supply chain and investors
- Communications Strategy – A co-ordinated voice from industry and the regions



CRITICAL ISSUE AREAS

To unlock FLOW in Britain and help us establish ourselves as a world-leading FLOW exporter, we need:

- a flexible revenue support mechanism to secure commercial investment and provide incentives for rapid cost-reduction;
- Flexible Revenue Support Mechanism – BEIS, with FLOW Industry and TCE support, to develop a framework for:
 - Early Demonstration Projects– using IPPA?
 - Early Commercial Projects – using iCFD?
- a pipeline of offshore projects of sufficient scale to provide the opportunity for rapid cost-reduction and secure our export position;
- Pipeline of Offshore Projects – FLOW Sector with TCE/TCE(S), to outline national FLOW projects plan.



TO FINISH.....

Floating Offshore Wind can do for the West what fixed offshore wind has done for East.



MARINE HUB
CORNWALL