Blue Gem Wind

Mike Scott, Project MD / First mover challenges / CSC launch

TotalEnergies

Simply Blue Energy

TotalEnergies

Simply Blue Energy

Blue Gem Wind

Our vision is to create a new low carbon offshore energy sector in the Celtic Sea that contributes to climate change targets, provides high skilled jobs, supply chain diversification and energy security

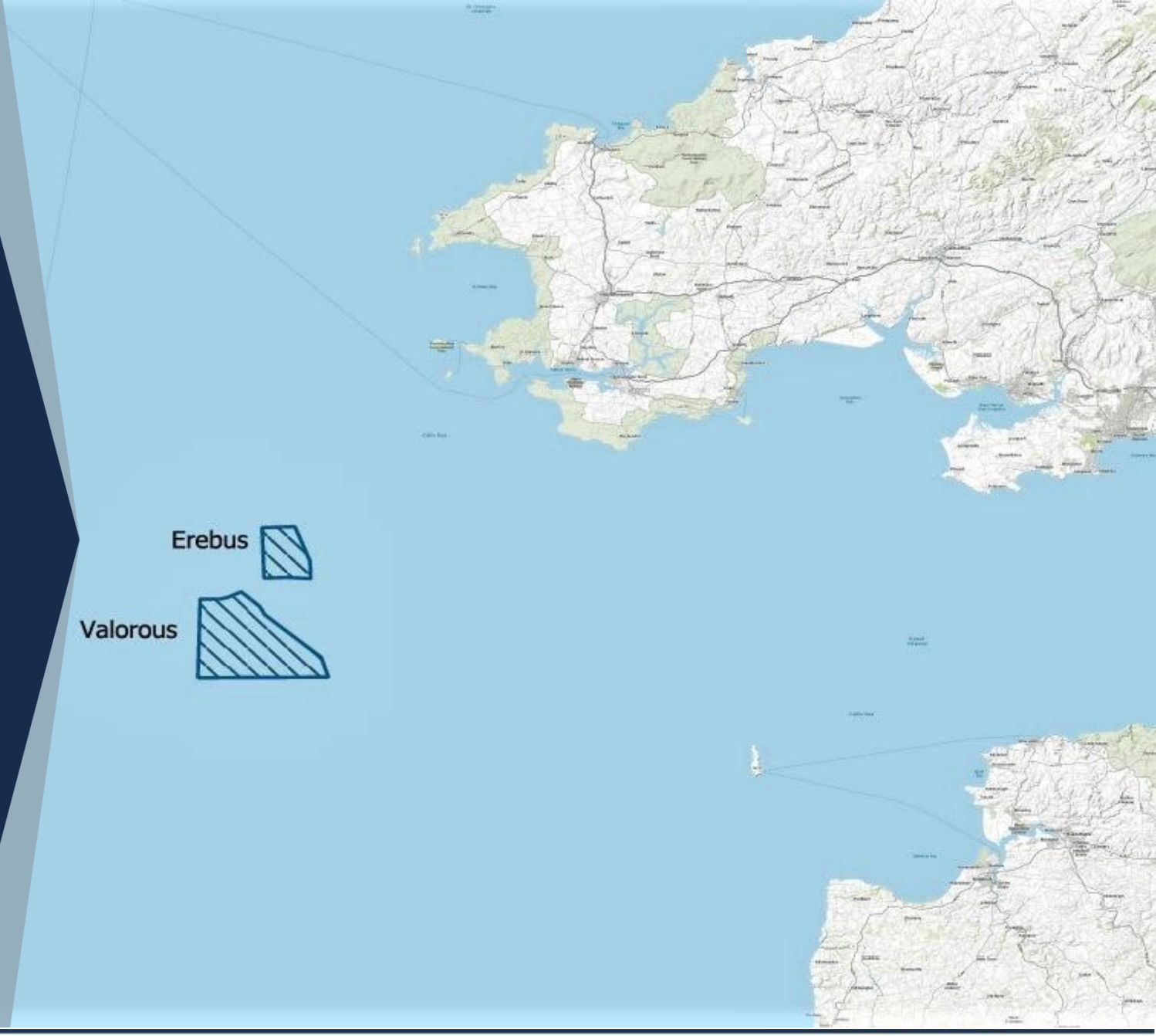
Floating Offshore Wind in the Celtic Sea

Why stepping stones?

- OREC recommendation – maximise local content and support the supply chain
- Celtic Sea does not have the same North Sea OW supply chain
- Celtic Sea does not have the same port infrastructure North Sea and Scotland
- Training, skills and job creation
- FLOW can deliver the same low carbon economic benefits to the Celtic Sea region

Unlocking the Celtic Sea through Stepping stone projects

Project Development Milestones	Erebus (Test & Demonstration)	Valorous (Early – Commercial)
Regional Site Evaluation and Third-Party Confirmation	Complete	Complete
Capacity	96 MW	300 MW
No. of Generators (9.5MW – 15MW)	6-10	16-27
Grid Agreement Secured	Complete - Q1 2020	Complete - Q4 2020
Outline Design	Complete - Q4 2019	Complete Q2 2021
Site Option Agreement (AfL)	Complete - Q2 2020	TBA
Scoping Opinion from NRW	Complete - Q1 2020	Complete - Q2 2021
HSEQ System Development	Complete	Complete
Bird & Marine Mammal Survey	Started - Sept 2019	Started - April 2021
	Complete - Sept 2021	Complete - April 2023
Metocean	Deployed - Aug 2020	Deploying October 2021
Cable Route Selection	Complete	Complete
Land fall Selection	Complete	Complete
Onshore Substation Location	Complete	Forecast Q4 2021
Geophysical/Geotechnical Campaign	Recon 2020 FEED 2021	Recon 2022
		FEED 2023
Pre-FEED, Surveys and EIA	Q4 2021	Q3 2023
FEED Completed / Consents Granted	Q4 2022	Q4 2024
Target CfD Auction Round	2023 (AR5)	2025 (AR6)
Complete Detailed Design / Financial Close	Q4 2024	Q4 2026
Start of Generation	2026	2029



Floating Offshore Wind in the Celtic Sea

Ports & Supply Chain Content

- Ports critical role in UK content

1. Fabrication of Platforms
2. Assembly of Platforms
3. WTG Integration
4. Staging Installation Port
5. O&M Base 25 years

- Decentralised Ports Strategy
- Strategic Investment is required
- OREC Report UK Ports strategy for platform assembly and WTG integration = 50% increase in jobs during construction and an additional £73m in GVA

Floating Offshore Wind in the Celtic Sea

Ports and UK Supply Chain Content

- “As-is” port capability suggests mainland Europe from commercial / technical / risk perspective
- BGW Supply Chain Enabling Solutions
- Modular approach to WindFloat
- WTG integration
  - Buoyancy aids
  - Grounding at quayside
  - JUV sheltered water
- CfD that **values Supply Chain** v Electron

Floating Offshore Wind in the Celtic Sea

Ports and UK Supply Chain Content

- Celtic Sea Ports Strategy with strategic investment
- Supply chain support to build a new sector
- Skills and training
- CfD values UK content
- Planning & Consenting
- Pipeline, pipeline, pipeline - leasing
- FLOW in the Celtic Sea

Blue Gem Wind

Keep in touch:

Website:
www.bluegemwind.com

LinkedIn:
www.linkedin.com/company/blue-gem-wind

Twitter:@wind_gem

Email: info@bluegemwind.com

All images Credit Principle Power/ Dock90