

THIS IS WALES

Ocean Energy

Europe

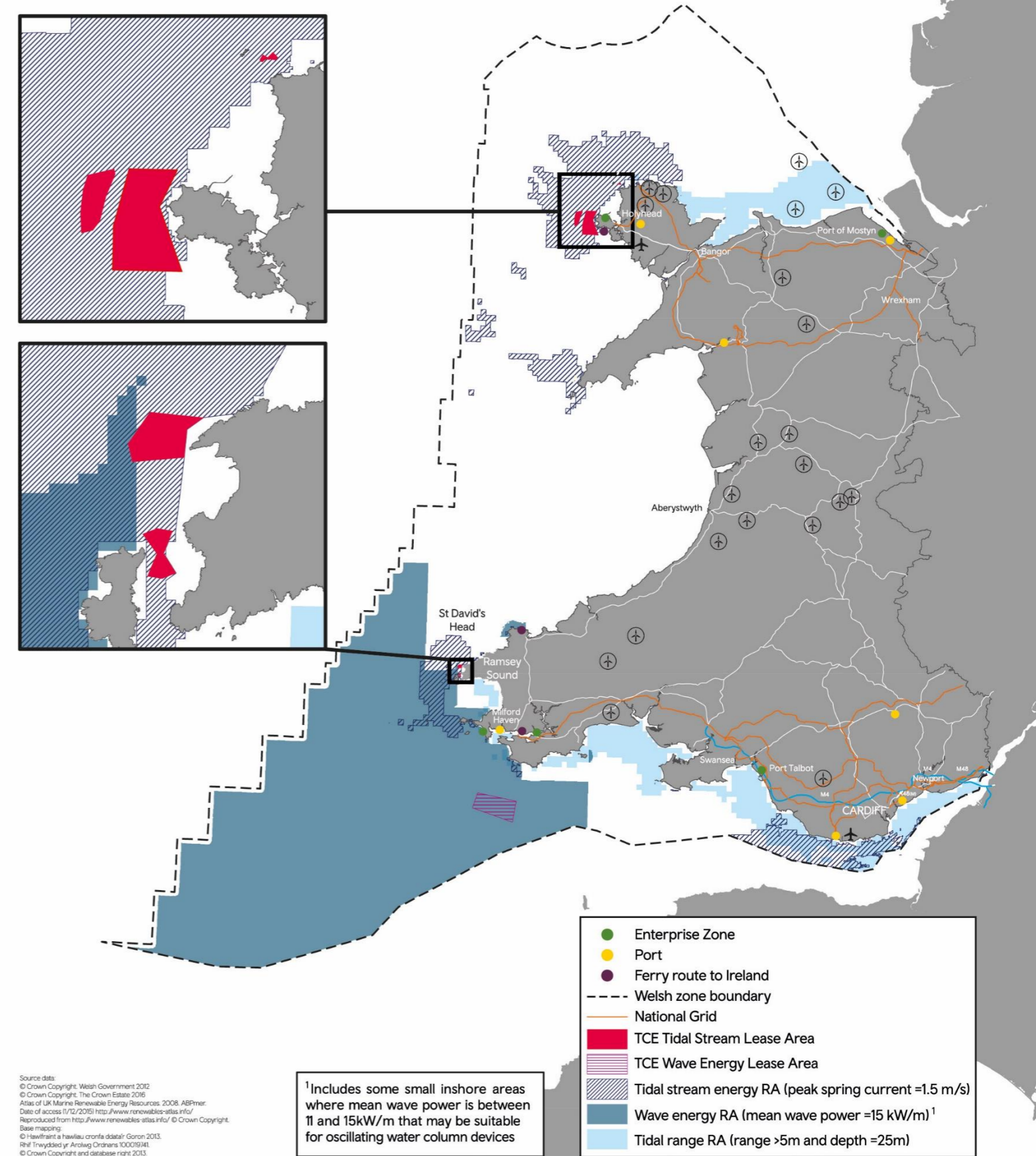
24th November 2021



Cymru
Wales

WHAT WILL THIS PRESENTATION COVER?

- Where we are today
- Next steps



MARINE ENERGY WALES: STATE OF THE SECTOR REPORT - 2021

- Over £150m invested in Wales from 2015 to 2021
- The sector has provided 1,210 person years of employment to date



**Tidal Stream
Energy**



**Wave
Energy**



**Tidal Range
Energy**



**Floating
Offshore Wind**



**Underpinning
Research**



MARINE ENERGY ACTIVITY

- 20 marine developers active in Wales
- 4 test and demonstration sites
- Seabed agreements for 465 MW



Image courtesy of Marine Energy Wales



WALES – SUPPORT FOR MARINE ENERGY SECTOR

European Regional Development Fund

- £100m marine energy fund
- Has allocated £74m
- Supported 12 projects to date

Swansea Bay City Deal

- £60m Pembroke Dock Marine is split into 4 elements:
- Pembroke Dock Infrastructure
- Marine Energy Test Area
- Pembrokeshire Demonstration Zone
- Marine Energy Engineering Centre of Excellence



RESEARCH & DEVELOPMENT

Seacams

- £17m project led by Bangor University in partnership with Swansea University
- Areas of research expertise include:
 - Physical oceanography
 - Nearshore coastal observatory network
 - Marine ecology
 - iMarDIS

Blue Lobster IT

- Integrated Digital Twins for Marine and Maritime Data and Information Services (€17m)
- Is a north Wales software development and creative company
- Will have a significant role in the Design and Development of the ILIAD Digital Twin of the ocean



INTERNATIONAL COLLABORATION

Selkie

- Wales Ireland INTERREG project
- Partners:
 - University College Cork
 - Marine Energy Wales
 - Menter Môn
 - Swansea University
 - DP Energy Ireland
 - Gavin and Doherty Geosolutions



N E X T S T E P S



COLLABORATION / PARTNERSHIP

Clean Energy Transition Partnership (CEPT)

- Wales is a partner within the CEPT proposal:
Missions - Oceans and Climate
- Marine energy focus: Wave and tidal technologies

Horizon Europe

- Wales stands ready to participate:
Excellent Science
Global Challenges & European Industrial Competitiveness
Innovative Europe
- **Challenges** for the sector to be addressed **together**



MARINE ENERGY PROGRAMME

Welsh Government investigations include:

- Tidal lagoon challenge
- Welsh electricity-price revenue support mechanism (based on UK Contracts for Difference principles)
- Ports Infrastructure initiative



CELTIC SEA – FLOATING OFFSHORE WIND

- Crown Estate has announced its intention to allocate up to 4GW of floating offshore wind seabed leases in the Celtic Sea by 2035

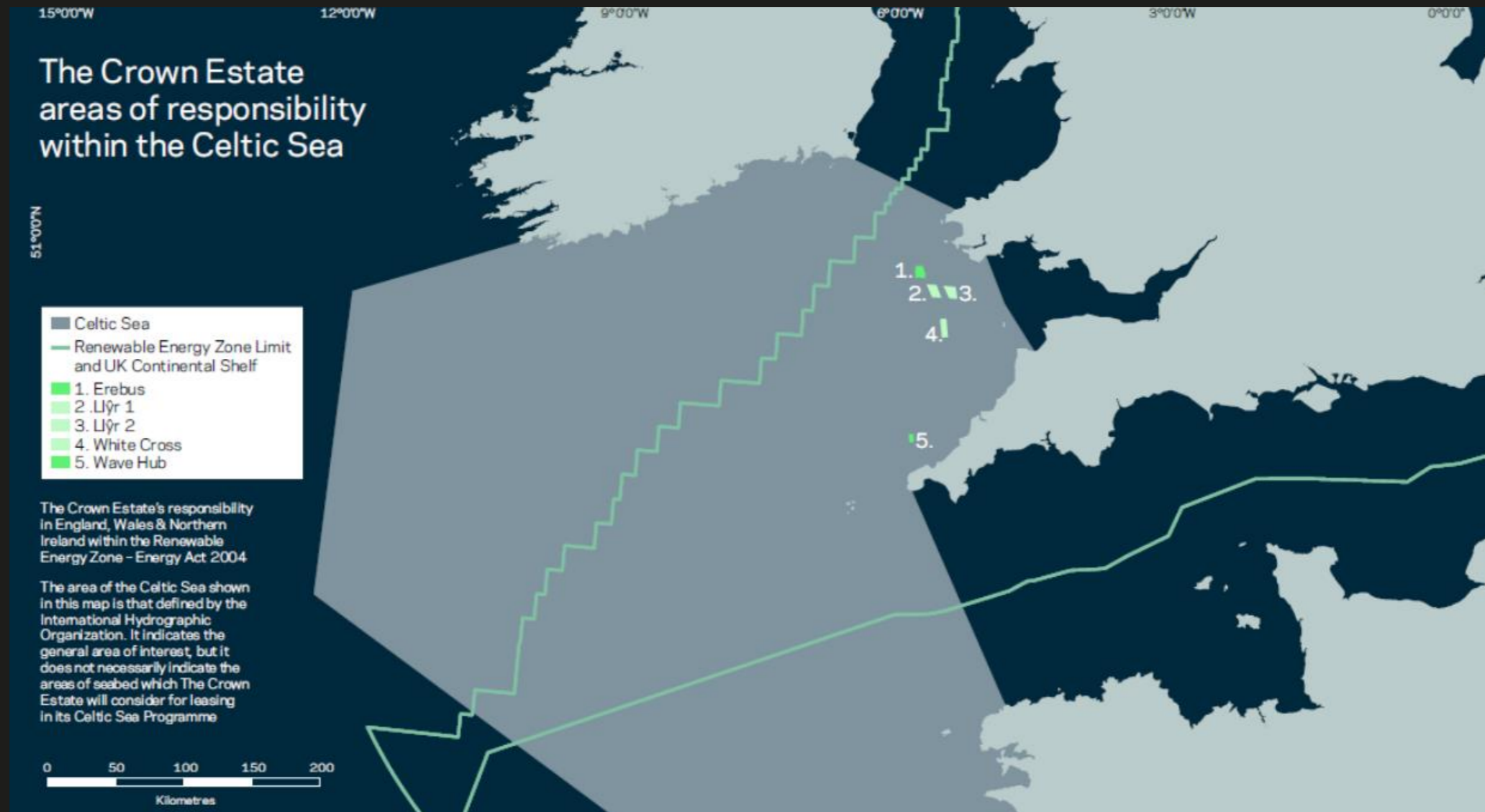


Image courtesy of Crown Estate



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