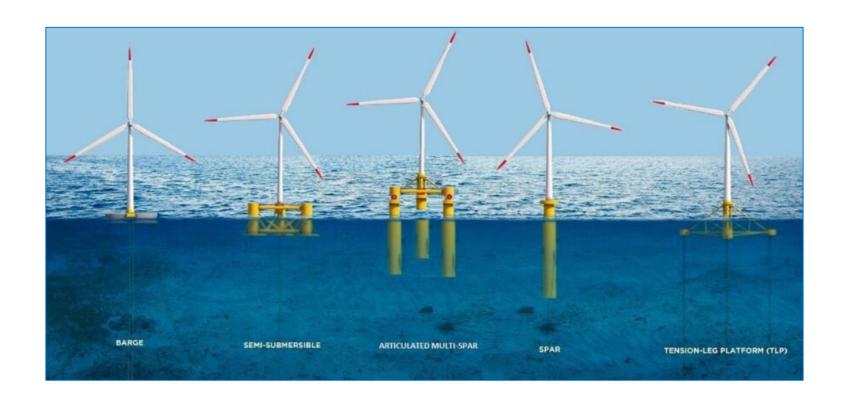


# CELTIC SEA FLOW REGIONAL STRATEGY





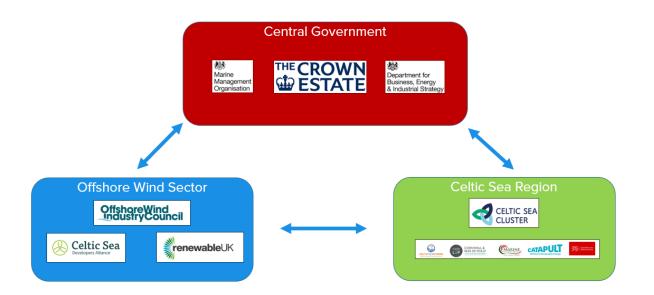
- 1. Introduction
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- 3. Celtic Sea FLOW Strategy
- 4. Celtic Sea Projects
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### **The Cluster**



#### **CELTIC SEA CLUSTER**

- **Partners** we represent key regional leaders:
  - Founding partners Celtic Sea Power, Cornwall & Isles of Scilly Local Enterprise Partnership, Marine Energy Wales, Offshore Renewable Energy Catapult, Welsh Government.
  - Future Partners South Wales & Great South West.
- <u>Mission</u> our mission is to make <u>establish</u> the Celtic Sea as a FLOW world-leader and maximise regional benefits:
  - Represent Region trilateral relationship central government, project developers, region.
  - <u>Regional Benefits</u> maximise economic development, GVA and job creation opportunities.
  - <u>Guide Industrialisation</u> guide the development of the Celtic Sea FLOW ecosystem.





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## **The Context**



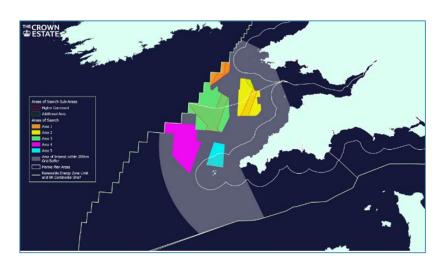
#### 1. Regional FLOW Campaign Phases:

- Phase 1 Policy Engagement 2018-19
- Phase 2 Market Creation 2019-22
  - CFD AR4 Hexicon-Twinhub
  - TCE Areas of Search
- Phase 3 T&D + Long Lead Items 2021-26
- Phase 4 Industrialisation 2024-30

#### 2. Phase 3 – Test & Demonstration:

- British Energy Security Strategy 5.0GW FLOW by 2030
- The Crown Estate 4.0GW by 2035; 20.0GW by 2045.
- Offshore Wind Sector Deal:
  - 60.0% British work content;
  - 5 x increase in British offshore wind exports.





### **The Context**

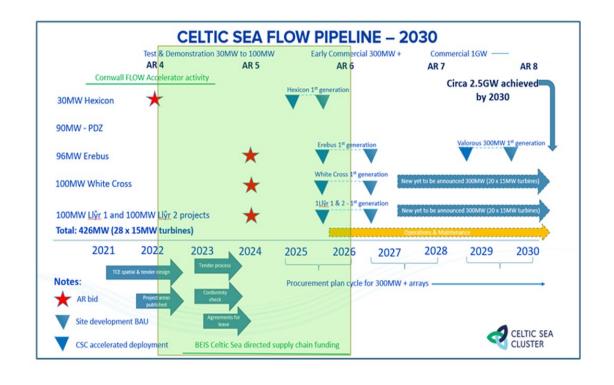


#### 1. Phase 3 – Test & Demo + Long-Lead – 2021-26:

- <u>T&D Projects</u> deliver with existing infrastructure.
- <u>Long-Lead Items</u> develop critical long-lead FLOW Ecosystem components.

#### 2. Phase 4 – Industrialisation – Long-Lead Items:

- Ports e.g. multiport solution essential.
- <u>Grid</u> e.g. capacity & extend transmission network offshore.
- <u>Local Capability</u> e.g. support vessels & offshore tools.
- <u>Local Capacity</u> e.g. EPC business models & SME size.
- Workforce grow ahead of time to meet FLOW needs.





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## The Strategy

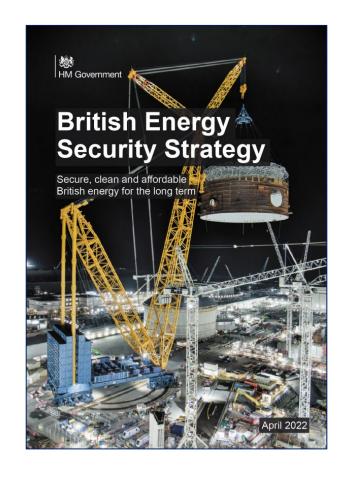


# What is the purpose of our regional strategy?

Coalition strategy to answer and explain the critical question: "How are we going to do this?""

#### **Effective Strategy answers these questions**

- 1. What is the **context**?
- 2. What are the strategic **objectives**?
- 3. What are the **resources**?
- 4. What are the selected **courses of action**?
- 5. What is the cluster **spirit**?



'Our strategy answers the "How are we going to do this?" question.'

## The Strategy



#### **Five Strategic Lines of Action**

#### 1. Lead Region:

- Policy Engagement
- Strategy Execution

#### 2. Refine Market:

- Zonal Planning
- Lease & Subsidy Regimes

#### 3. Accelerate Industrialisation:

- Regional Ecosystem Modelling
- Regional Infrastructure Guidance

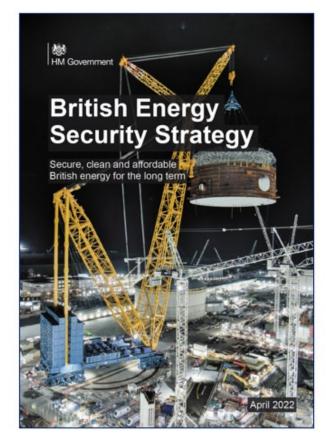
#### 4. Develop Cluster:

- Grow Cluster Capability & Capacity
- Maximise Local Content, GVA, Jobs

#### **5. Integrate Enterprise Support:**

- Grow Workforce
- Align RD&I & Regional Support





'Need to start work now on Celtic Sea FLOW ecosystem's long-lead items.'

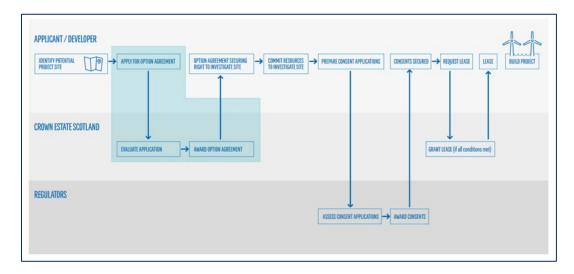
## **Line-of-Action 2 – Refine Market**

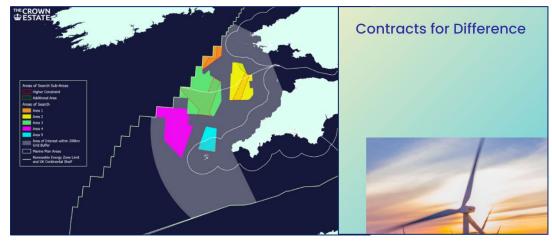


#### **Refine Market**

We aspire to halve the current offshore wind development cycle of 8-10 years, through:

- Zonal Planning a better integrated offshore development process, which achieves a number of interrelated benefits:
  - reduce development time;
  - reduce project developer risk,
  - reduce project cost of capital & LCOE;
  - reduce marine cumulative impact..
- b. <u>Lease & Subsidy Regimes</u> innovative evolution of the lease and subsidy regimes could be used to:
  - front-loaded regional investment.
  - increase local content, GVA and job creation.





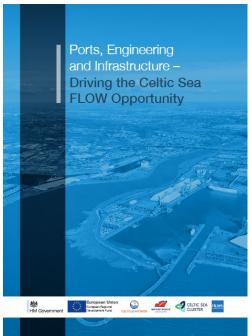
# Line-of-Action 3 – Accelerate Industrialisationster

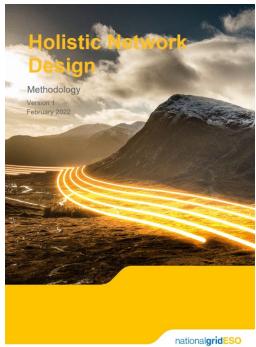
#### **Accelerate Industrialisation**

To maximise regional benefits, guiding the planning and development of regional infrastructure and industry:

- **a.** Regional Ecosystem Planning regional ecosystem modelling, especially long-lead items.
- b. <u>Infrastructure Investment</u> early engagement on ports & grid:
  - Ports Ports Task & Finish Group:
    - Chair British Ports Association.
    - Ports Position Pape recognises there is no single Celtic Sea port solution.
  - **Grid** engaging with:
    - Offshore Transmission Network Review
    - Holistic Network design,.







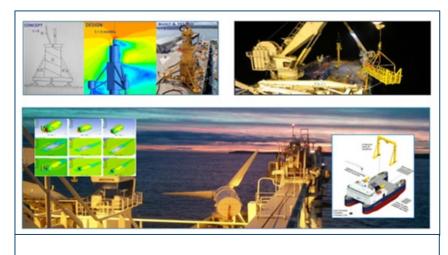
## **Line-of-Action 4 – Grow Clusters**



#### **Grow Clusters**

To maximise regional benefits, need to help key regional offshore, marine and onshore industries grow or pivot:

- a. <u>Cluster Capability</u> using Cornwall FLOW Simulator, together with Cornwall FLOW Accelerator workshops to provide:
  - Basis of Design for a systems approach to FLOW project delivery.
  - Industry Guidance give local industries information on required capabilities.
  - Industry Accreditation F4OR
- **b.** <u>Cluster Capacity</u> undertaking detailed regional industry capacity analysis, in particular
  - a. Commercial & Contracting Models
  - b. Novel EPCI models.



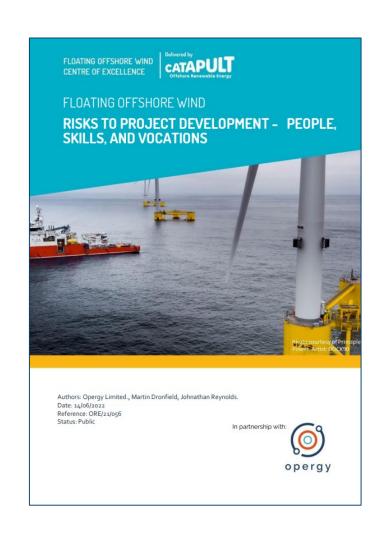


# Line-of-Action 5 – Integrate Support CELTIC SE

#### **Integrate Regional Support**

Integrate activities of national, regional, research and academic entities supporting the Celtic Sea Cluster:

- a. <u>Grow Workforce</u> Workforce Task & Finish Group
  & Future Workforce Model:
  - Demand sub-group model demand over time.
  - Supply sub-group HE/FE & other suppliers.
- **b.** <u>Integrate Regional Support</u> we will work to integrate key regional FLOW support activities:
  - Applied R&D
  - Business Support.
- Secure Inward Investment & Exports establish region as a FLOW
  - FLOW Inward Investment
  - FLOW Export Hub.









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## The Projects

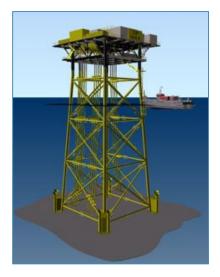


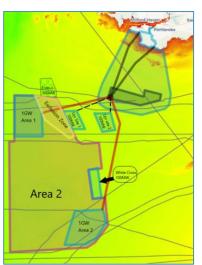
#### **Regional FLOW Projects**

Two large applied R&D FLOW projects, to help guide region development and build industry capability and capacity:

- a. <u>Cornwall FLOW Accelerator</u> £6.0M ERDF project, with 3 principal focuses:
  - **Zonal Planning** go quicker offshore.
  - <u>Cornwall FLOW Simulator</u> FLOW ecosystem simulation,
  - <u>Low Carbon Footprint</u> minimise hydrocarbon inputs.
- **b.** Pembrokeshire Demonstration Zone £4.0M ERDF/SBCD project, with 3 principal focuses:
  - Offshore Survey substation site & export cable route.
  - **Pre-FEED** Multi-connection Offshore Substation.
  - <u>Business Model Innovation</u> regulation & commercial.









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## Conclusion



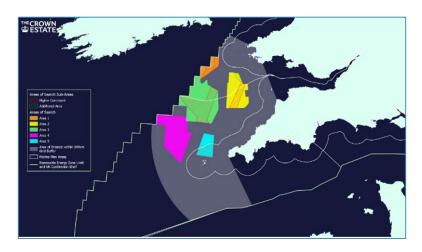
#### **Spirit**

A Celtic Sea Cluster has: track record of policy success; well developed strong relationships with key Celtic Sea FLOW stakeholders.

We have a clear well-resourced strategy, together with with excellent industrial potential:

- **Cornwall** well-established offshore renewables cluster.
- Pembrokeshire Britain's leading energy port.
- **South Wales** established South Wales industrial Cluster.
- **Great South West** broader marine-maritime cluster

Ambitious but achievable objectives, plus a passionate and pioneering spirit.







# CELTIC SEA FLOW REGIONAL STRATEGY



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