

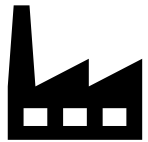
# Industry for the wind energy



**wind**  
energy

**BASQUE COUNTRY**

## Basque Country – Industry & Technology & (of course) Wind Energy



**Most industrialised region in Spain**



**Highest R&D investment**



**150 companies working on wind energy**



# Wind Energy Basque Country – We have the...

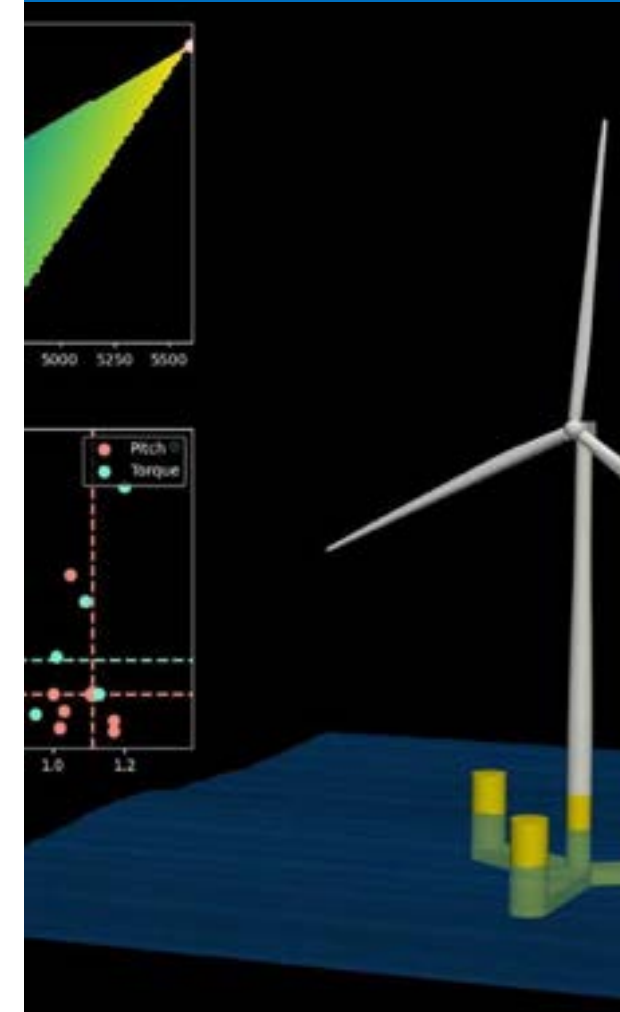
Companies



Experience



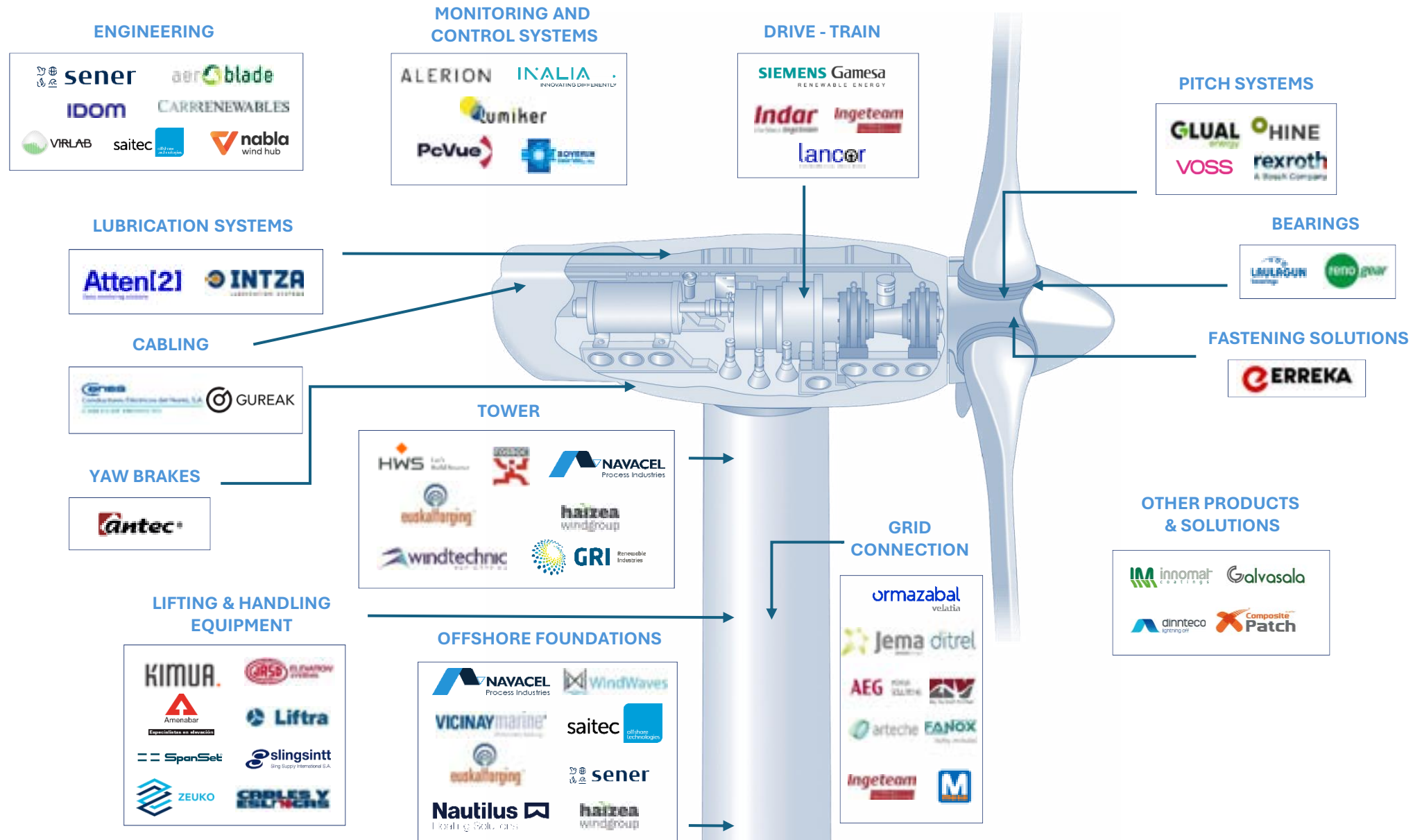
Technology



# The Basque Country has competitive companies in all segments of the wind energy value chain



# The Basque Country is also home to manufacturers of all key components of a wind turbine



# The Basque Country is home to two global leaders in the development of wind energy, namely Iberdrola and Siemens Gamesa



Iberdrola is one of the largest electric utilities in the world. The company has positioned itself as leader in clean energies: Iberdrola is the top renewable energy producer in Europe, a global leader in terms of installed onshore wind power and a pioneer in offshore wind development.



Siemens Gamesa Renewable Energy, based in the Basque Country, is the only company operating at a global scale across the entire wind spectrum – onshore, offshore and services. In 2022, it was the fourth global wind turbine manufacturer with 9.3 GW.

## Key figures



€10.73 billion  
(90% for the development of new renewable capacity and smart grids)



45,000 employees



72% renewable energy owned installed capacity



2,500 MW new additions (renewable energy)



40,000 MW under operation (renewable energy)



10 GW offshore wind pipeline forecast for 2030

Source: Iberdrola

## Key figures



> 100 GW installed worldwide



26,000 employees



€10.2 billion annual revenue



€6.9 billion in procurement volume



€32.5 billion order book



79 GW fleet under maintenance

Source: Siemens Gamesa

# Value chain with capacities and experience in floating wind

## DEVELOPERS



## ENGINEERING



## INSTALLATION, OPERATION & MAINTENANCE



## R&D CENTRES



## WIND TURBINE & COMPONENTS



## TOWERS & TRANSITION PIECES



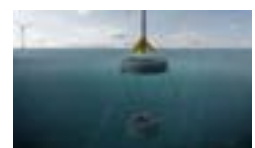
## FLOATING FOUNDATIONS



## MOORING SYSTEMS

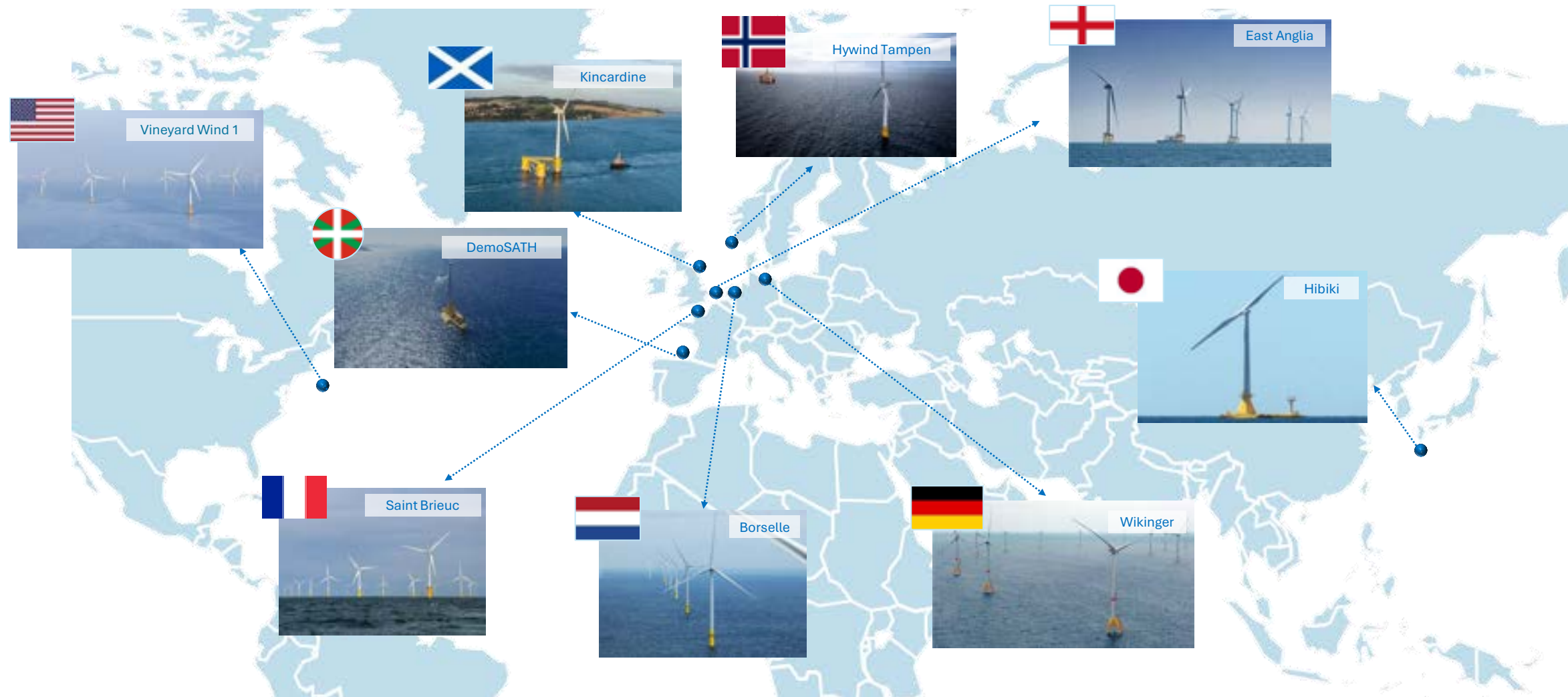


## ELECTRICAL CONNECTION



# Basque companies are involved as suppliers in most offshore wind farms worldwide, both bottom-fixed and floating projects

Examples of key projects involving Basque companies

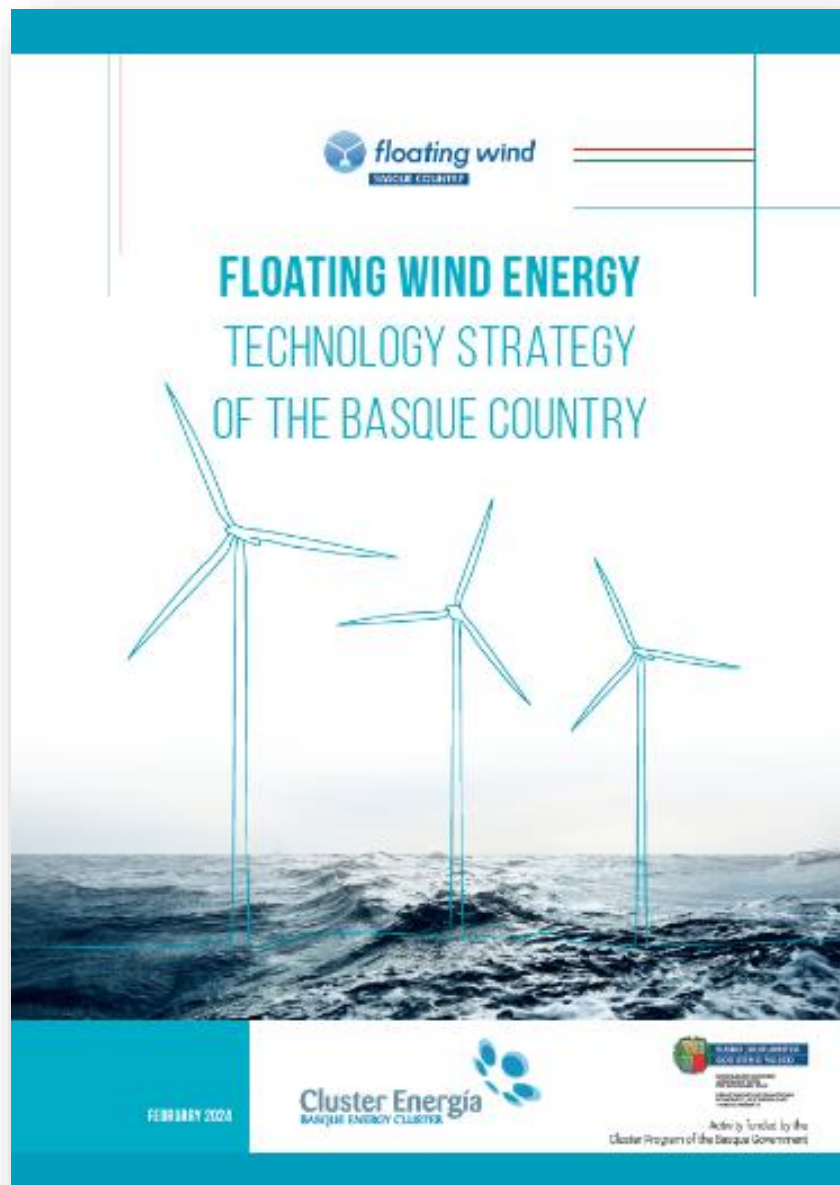


## DemoSATH - 75% of construction budget from < 25km



- 2 MW
- 30x70 meters
- Installed in BiMEP, 2 miles from the coast
- Depth of 85 meters

# Basque Floating Wind Energy Technology Strategy



### ORGANISATIONS INVOLVED IN THE DEFINITION OF THE TECHNOLOGICAL STRATEGY

	Aurizalde	Bosch Rexroth	Care Marine	Diaval	Empressas Flotantes	Ferret	Hybris	Innovational Outright	Jacob	Kerncraft	Navia Wind Hub	Navalium FE	Robur Offshore	Sener	Simple Blue	Vicinity Marine	ADP	Cell	Berhain	MU	Tecnicis	Trifer	UPV/EHU	CE		
<b>STRATEGIC AREA 1: FLOATING FOUNDATION DESIGN AND CONSTRUCTION</b>																										
1.1		x			x																				2-3	
1.2		x			x																					3-5
1.3		x			x																					3-5
1.4					x																					5-7
<b>STRATEGIC AREA 2: INSTALLATION, OPERATION AND MAINTENANCE</b>																										
2.1		x	x		x																					3-5
2.2		x	x		x																					3-5
2.3		x			x																					5-7
<b>STRATEGIC AREA 3: TURBINE, MOORING SYSTEMS AND AUXILIARY COMPONENTS</b>																										
3.1		x	x		x																					4-5
3.2					x																					2-6
3.3					x																					3-4
3.4					x																					3-5
3.5					x	x																				3
3.6					x																					2-5
3.7					x																					3-5
3.8		x			x																					2-4
3.9					x																					2-4
<b>STRATEGIC AREA 4: RESOURCE AND IMPACT ANALYSIS AND STUDIES</b>																										
4.1		x																								2-5
4.2					x																					2-6
4.3																										1-7
4.4																										2-5

Collaboration of 17 companies and 7 R&D organisations from the Basque Country

20 technological lines in 4 strategic areas:

- Platform Design and Construction
- Installation, Operation & Maintenance
- Turbine, Mooring and Aux. Components
- Resource and Impact Analysis and Studies

Each technological line includes a description and detail of the scope of the challenge and the main R&D areas considered

# Collaborating in key R&D initiatives

**A EUROPEAN INITIATIVE DESIGNED TO STRENGTHEN THE FLOATING OFFSHORE WIND ENERGY VALUE CHAIN**

Coordinator: **BASQUENERGY CLUSTER**

Cluster Partners: **BLUE CLUSTER**, **CMC**, **BIG**, **CLANER**, **WIND INDUSTRY HUB**

- 24 members**
- 8 regions**

**MARKET-ORIENTED CLUSTERS**

- ANDALUSIA (SPAIN)
- CANARY ISLAND (SPAIN)
- CAMPANIA (ITALY)

**INDUSTRY CLUSTERS**

- BASQUE COUNTRY (SPAIN)
- FLANDERS (BELGIUM)
- WEST POMERANIA (POLAND)

**COVERING BOTH SIDES**

- VARNA (BULGARIA)
- OCCITANIE (FRANCE)
- PROVENCE-ALPES COTE D'AZUR (FRANCE)

**CANARY ISLAND**

**i3FLOAT RETOS ACTUALES & FUTUROS**

**PROYECTOS I3FLOAT DE EÓLICA MARINA FLOTANTE**

**4 HUBS de Innovación FFD + Equipos Piloto de Proveedores Interregionales**

- 10 INVERSIONES EN INNOVACIÓN

**HOJA DE RUTA FUTURA**

IDENTIFICACIÓN DE NUEVOS RETOS DE INNOVACIÓN:

- 8 REGIONES PARTICIPANTES
- DEFINICIÓN DE LOS RETOS PARA LAS CONVOCATORIAS ABIERTAS

**OPEN CALLS**

**GESTIÓN DE LAS OPEN CALLE:**

- PROPIETARIOS DE LOS RETOS PROCEDENTES DEL CONSORCIO Y DEL CONSEJO ASESOR
- HASTA 60.000 € POR PYME DE LAS REGIONES PARTICIPANTES O DE REGIONES MENOS

**SERVICIOS DE APOYO ASESOR**

- SERVICIOS DE ASESORAMIENTO FINANCIERO
- SERVICIOS DE ASESORAMIENTO PARA LA VALORIZACIÓN

**Floating Wind Energy**

**OPEN CALLES**

*Funded by the European Union*

*Basque Hazitek programme*

**NEW SOLUTIONS OF FLOATING O&M FOR CRITICAL COMPONENTS**

**FLOWIND**

Coordinator: **saitec offshore technologies**

*Basque Elkartek programme*

**RUL OF MOORINGS AND UMBILICALS FOR OFFSHORE RENEWABLES**

**RUL-ET**

Coordinator: **tecnal:a** MEMBER OF BASQUE RESEARCH & TECHNOLOGY ALLIANCE

*Basque Hazitek programme*

**STRUCTURAL INTEGRITY USING MODELS BASED ON AI**

**INTEGRIA**

Coordinator: **ayesa**

**Wind**  
EUROPE

ANNUAL EVENT  
**2026**  
**MADRID**  
21-23 APRIL

**WIND ENERGY  
BASQUE COUNTRY PAVILION**

**BASQUENERGY  
CLUSTER**

Join us at **HALL 10**



10-G80	10-G90	10-G100	10-G110	10-G120
10-F80	10-F90	10-F100	10-F110	10-F120

Energy  
Industry  
Land

Energia  
Industriaren  
Lurraldea

**Thank you!**

Ander González  
agonzalez@basquenergycluster.com

# Danish offshore wind market

**Carsten Chachah**  
Green Power Denmark

# About Green Power Denmark

Represents 1,250 members, 800 co-operative members and 200 members of associated associations.



Founded on March 23, 2022.



Acts as the voice of **the entire value chain** from the manufacturer of the bolt used in a wind turbine to RE owners and developers as well as DSOs and energy traders.

Offices in Copenhagen, Aarhus, and Brussels.



Approx. 125 employees.



# Ambition in the 2023 political agreement for offshore wind following the Thor-tender with a de facto concession payment



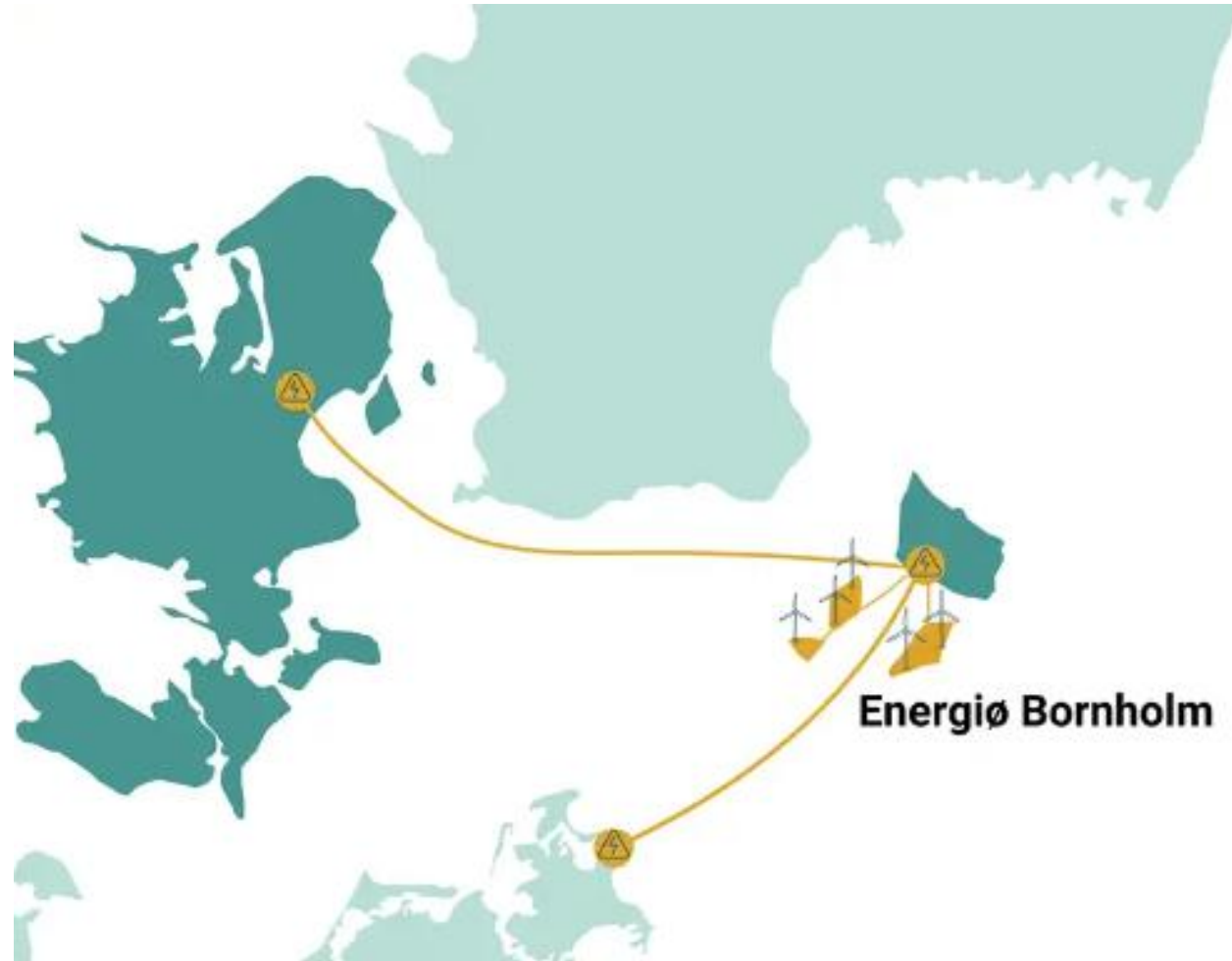
- Thor tender of 1 GW awarded in 2021 with a de facto concession payment of 2.8 billion DKK.
- Subsequent 2023 political agreement to tender
  - 6 GW radial offshore wind and
  - 3 GW energy island offshore windall without state aid
- After failed tender in december 2024, realisation that state aid is needed for revised tenders

# Revised 2.8 GW radially connected offshore wind tender in 2025 political agreement (revised down from 6 GW)



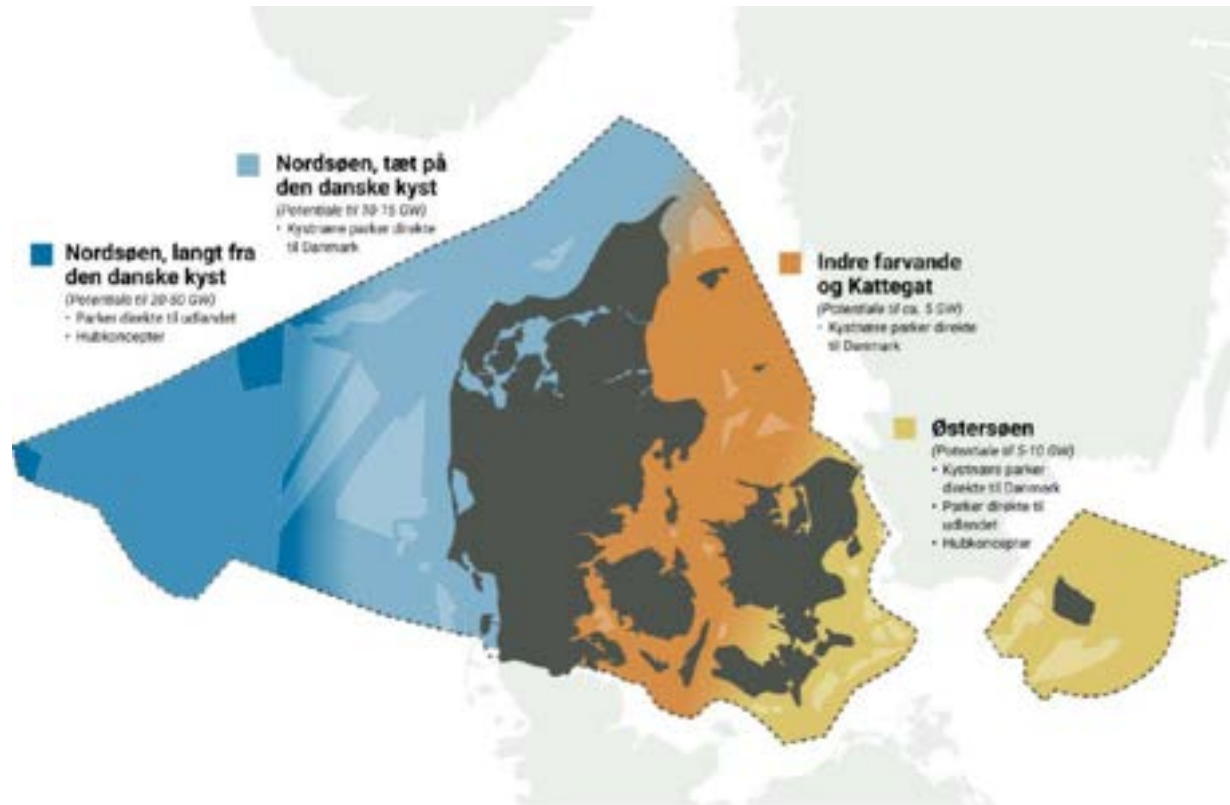
- 2.8 GW tender on 3 sites opened in november 2025 with a 2-sided capability based CfD and an overall state-aid budget cap of 44 billion DKK.
- Hesselø – 0.8 GW, 2032
- Nordsøen Midt – 1 GW, 2032
- Nordsøen Syd – 1 GW, 2033
- Bid deadline for ‘Hesselø’ & ‘Nordsøen Midt’ in May 2026.

# Revised 3 GW Energy Island Bornholm tender agreed between Denmark and Germany January 2026



- 3 GW offshore wind connected to HVDC hub on Bornholm with interconnectors to Denmark and Germany.
- 50/50 (DK/DE) split on cost for infrastructure
- 30/70 (DK/DE) split on subsidy cost for offshore wind.
- Expected Commissioning 2034-2036

# Vast Danish sea area enables perspectives for export oriented focus going forward



- Offshore wind resource exceeds domestic demand
- Prospect of cross border radial projects directly connected to offtaker countries
- Further development of energy island build out
- Need for a market driven scheme to continuously test the market's appetite for merchant projects



# Welcome to ETZ



ENERGY TRANSITION ZONE

# Our Vision

Is for North East Scotland to remain a global leader in energy excellence with a world class supply chain, pioneering low carbon projects and a thriving economy



# Our Purpose

To accelerate North East Scotland's energy transition to create lasting jobs and prosperity for the region, Scotland and the UK

# An overview of North East Scotland's Energy strengths



**Oil & gas infrastructure and expertise**



**World-class energy supply chain**



**Collaborative innovation ecosystem**



**Energy Transition Zone**



**Subsea engineering and technology**



**Industry-focused universities & college**



**Ongoing Energy Transition projects**



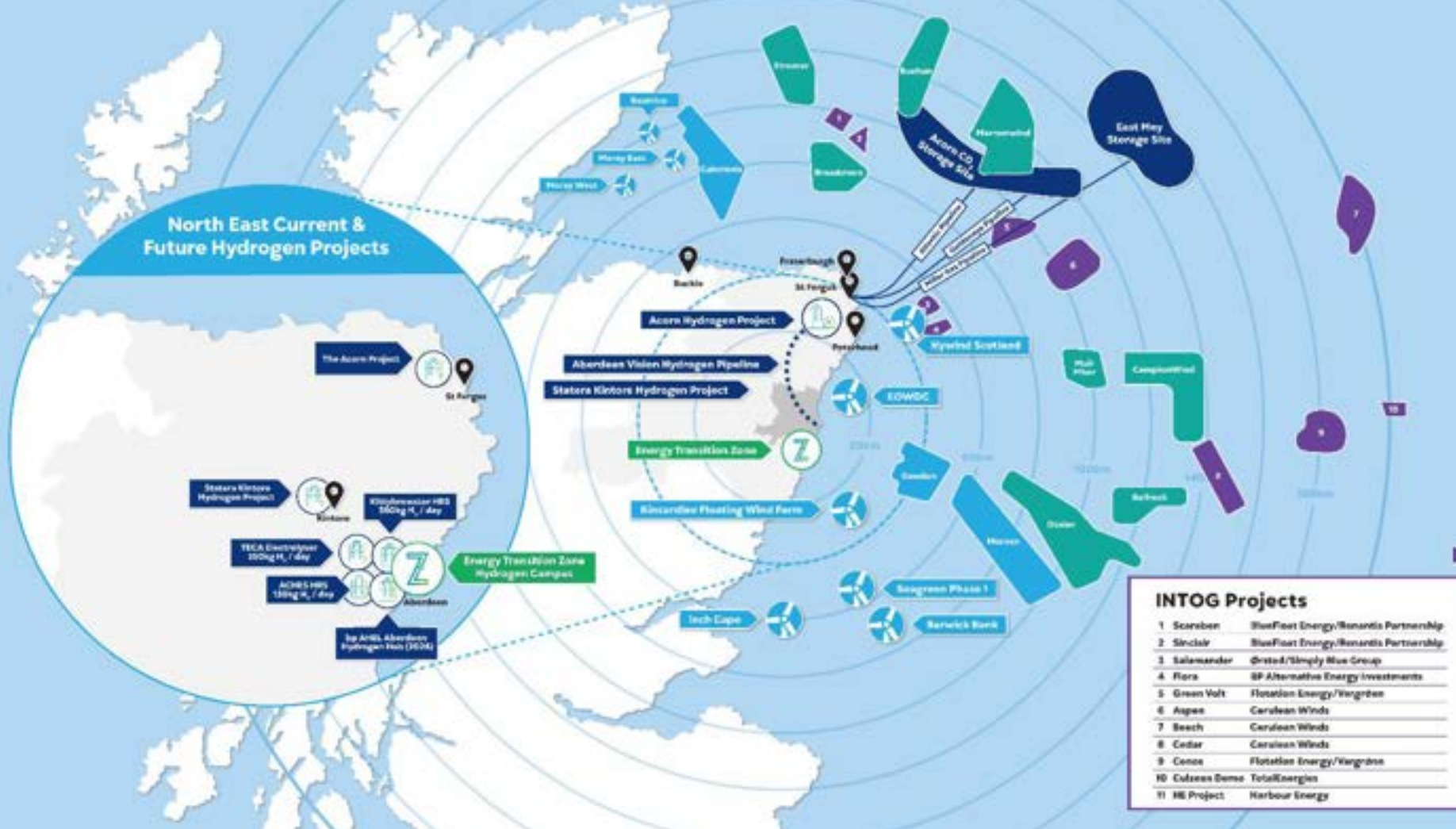
**Port infrastructure and capability**

**A region with the right credentials and a strong track record of delivery to embrace a low carbon energy future**

### Energy Transition Projects Key

- Scotwind - Fixed
- Scotwind - Floating
- Existing windfarm
- ETZ
- INTOG
- CO<sub>2</sub> Storage Sites
- Existing Pipeline
- Future Pipeline

## North East Scotland current & future energy transition projects












### INTOG Projects

1 Scaresen	BlueFloat Energy/Remantis Partnership
2 Sinclair	BlueFloat Energy/Remantis Partnership
3 Salamander	Orsted/Simply Blue Group
4 Flora	BP Alternative Energy Investments
5 Green Volt	Flotation Energy/Vangrøn
6 Aspas	Carolean Winds
7 Beech	Carolean Winds
8 Cedar	Carolean Winds
9 Cones	Flotation Energy/Vangrøn
10 Colleen Demo	TotalEnergies
11 HE Project	Harbour Energy

# Our Value Proposition – how can we help?



Energy and economic development expertise - extensive regional and international networks – independence - ability to deliver tangible results at pace

 <p>We are energy and economic development experts</p>	 <p>We know the region and its strengths</p>	 <p>We deliver tangible benefits for everyone</p>	 <p>We understand the supply chain, its strengths and challenges</p>
 <p>We are a trusted, collaborative partner</p>	 <p>We are solutions driven and innovative</p>	 <p>We make funding accessible</p>	 <p>We have proven track record of delivery and impact</p>
 <p>We are independent, not-for-profit and bridge the public-private sectors</p>	 <p>We have local, regional and international connections</p>	 <p>We lead and convene networks and partnerships</p>	 <p>We deliver property and infrastructure solutions aligned with net zero principles</p>

# CAMPUS PROJECTS





National  
Energy  
Skills  
Accelerator

## *Mission*

- A 'one stop shop' to access a wide range of energy courses, skills development programmes and R&D capabilities in the partner institutes



# Regional Port Infrastructure



# North East Scotland Investment Zone



- **£160 Million** funding package from UK and Scottish Government
- Targeted investment to unlock growth in **digital tech and green energy**
- **Two dedicated tax sites** to support world class supply chain:
  - **Peterhead** (Aberdeenshire)
  - **Energy Transition Zone** (Aberdeen City)
- **Tax site fiscal incentives** include:
  - Land & Buildings Transaction Tax Relief
  - Non-Domestic Rates Relief
  - Enhanced Capital Allowances
  - Enhanced Structures and Buildings Allowance
  - Employer National Insurance Contributions Relief



**Unlocking  
Investment in  
Partnership**

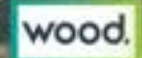




Marine Gateway



Hydrogen Campus  
Green Hydrogen Test & Demonstration  
Facilities

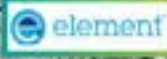


Innovation Campus  
ETZ EnergyWorks

Skills Campus  
Energy Transition Skills Hub



Wind Campus  
Floating Wind  
Innovation Centre



Crampel Road

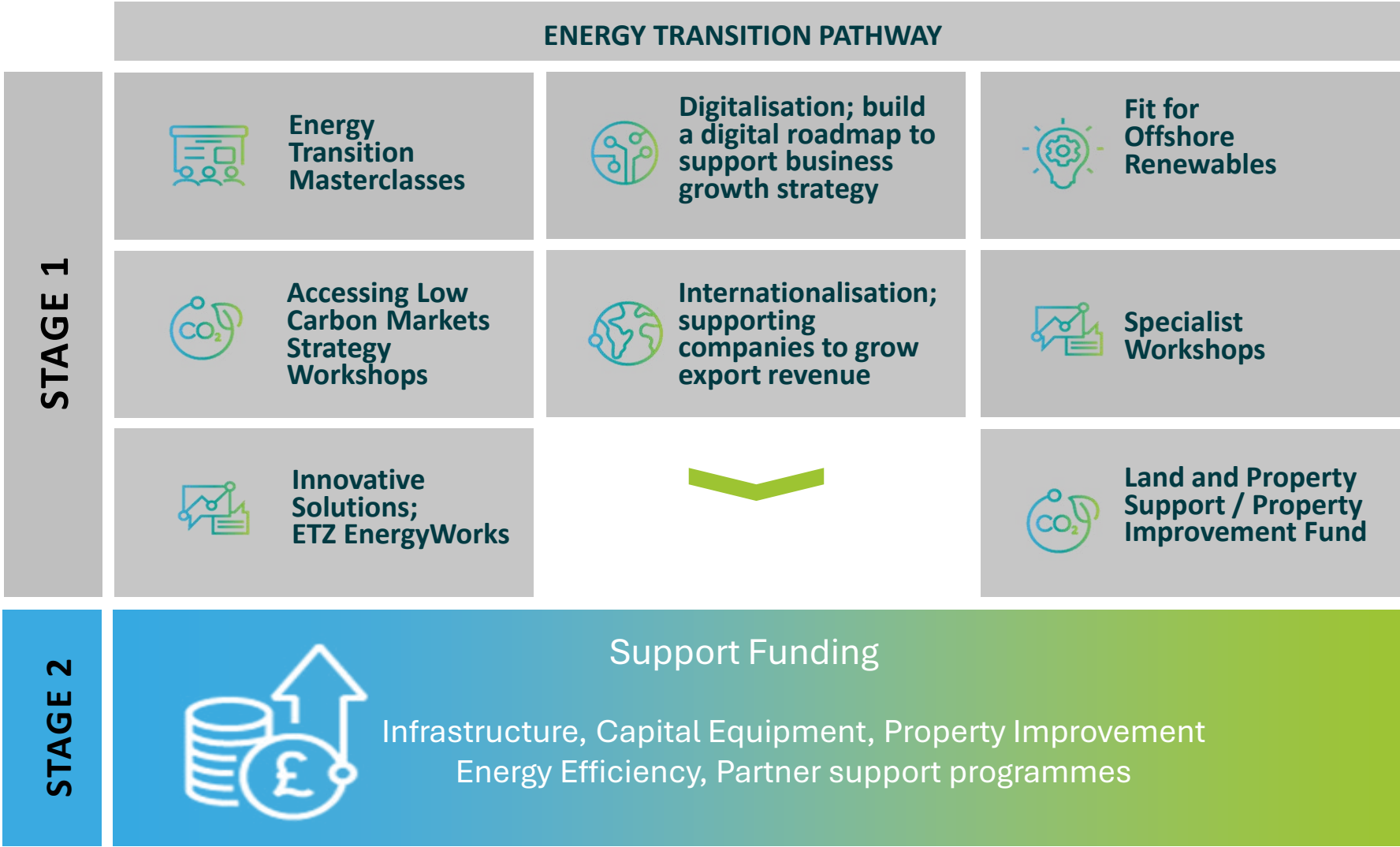
Marine Gateway



Souter Head Road



# Energy Supply Chain Support



A region with the right credentials and a strong track record of delivery to embrace a low carbon energy future



**NETZ**ERO  
ENERGY TRANSITION ZONE

For further information on the Energy Transition Zone, contact:

Jacqui Watt, Development Manager: [jacqui.watt@etzltd.com](mailto:jacqui.watt@etzltd.com)

# WIND EUROPE 2026

Meeting Cluergal – Marine Renewables Canada

22/04/2024

# Overview of Offshore Wind Plans/Developments in Galicia



# Overview of Offshore Wind Plans/Developments in Galicia

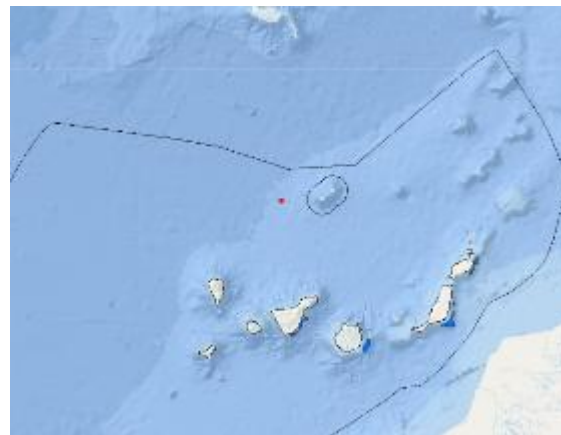
## Spatial Maritime Planning (Plan de Ordenación Espacial Marítima POEM)

The classification of certain area as ZAPER zone responds to the fulfilment of the following limitations:

- Water depth not over 1000 metres
- Wind resource over 7.5 m/s as month average velocity at 100m height
- Onshore electrical substation potentially available next to the zone

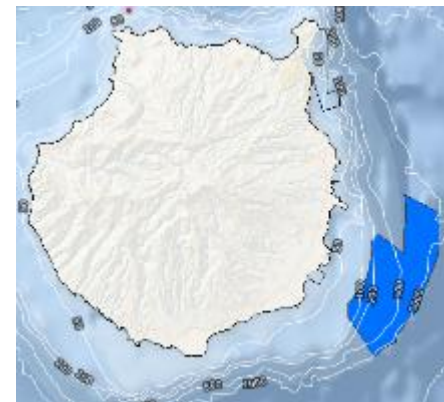
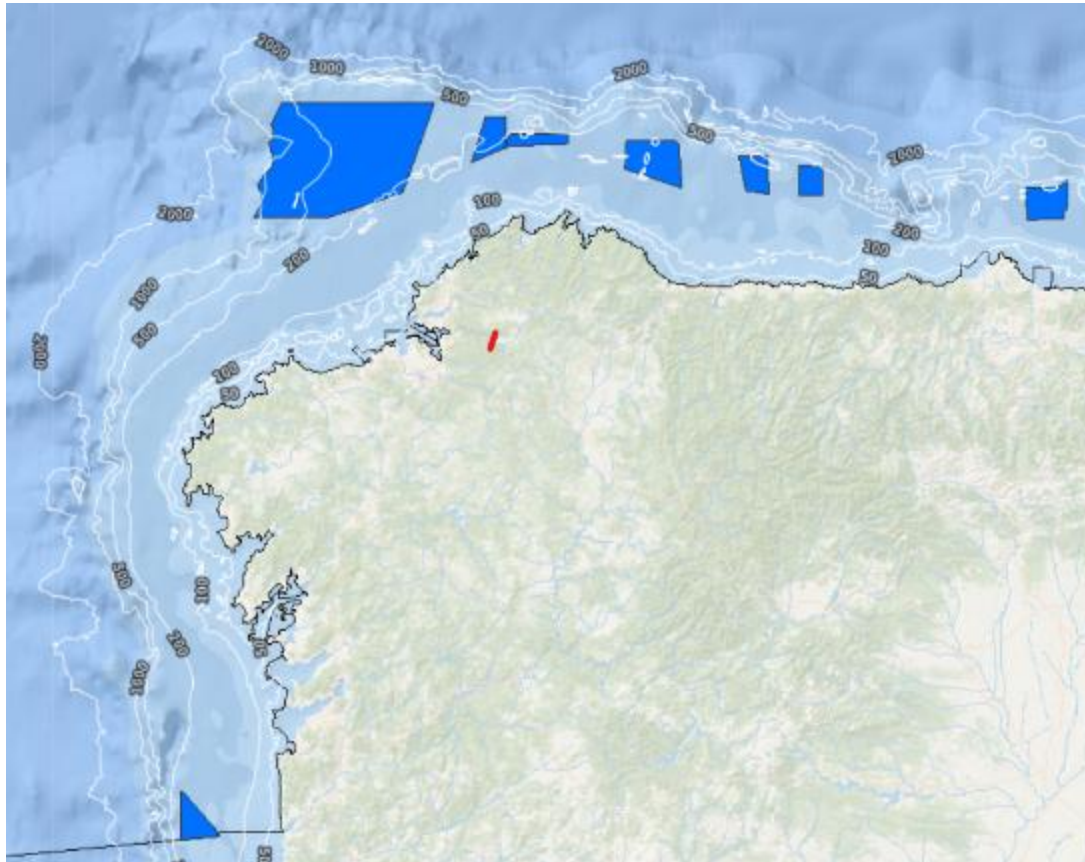
Additionally, the zone has been analysed from the point of view of other uses and economic activities, analysing parameters such as:

- Biodiversity interests
- National Defence activities
- Aviation activities
- Maritime traffic and ports activities
- Marine aquiculture activities
- Fishing activities
- R&D activities
- Mooring and submarine cables restrictions
- Natural submarine heritage
- Maritime and shore interface and infrastructure activities



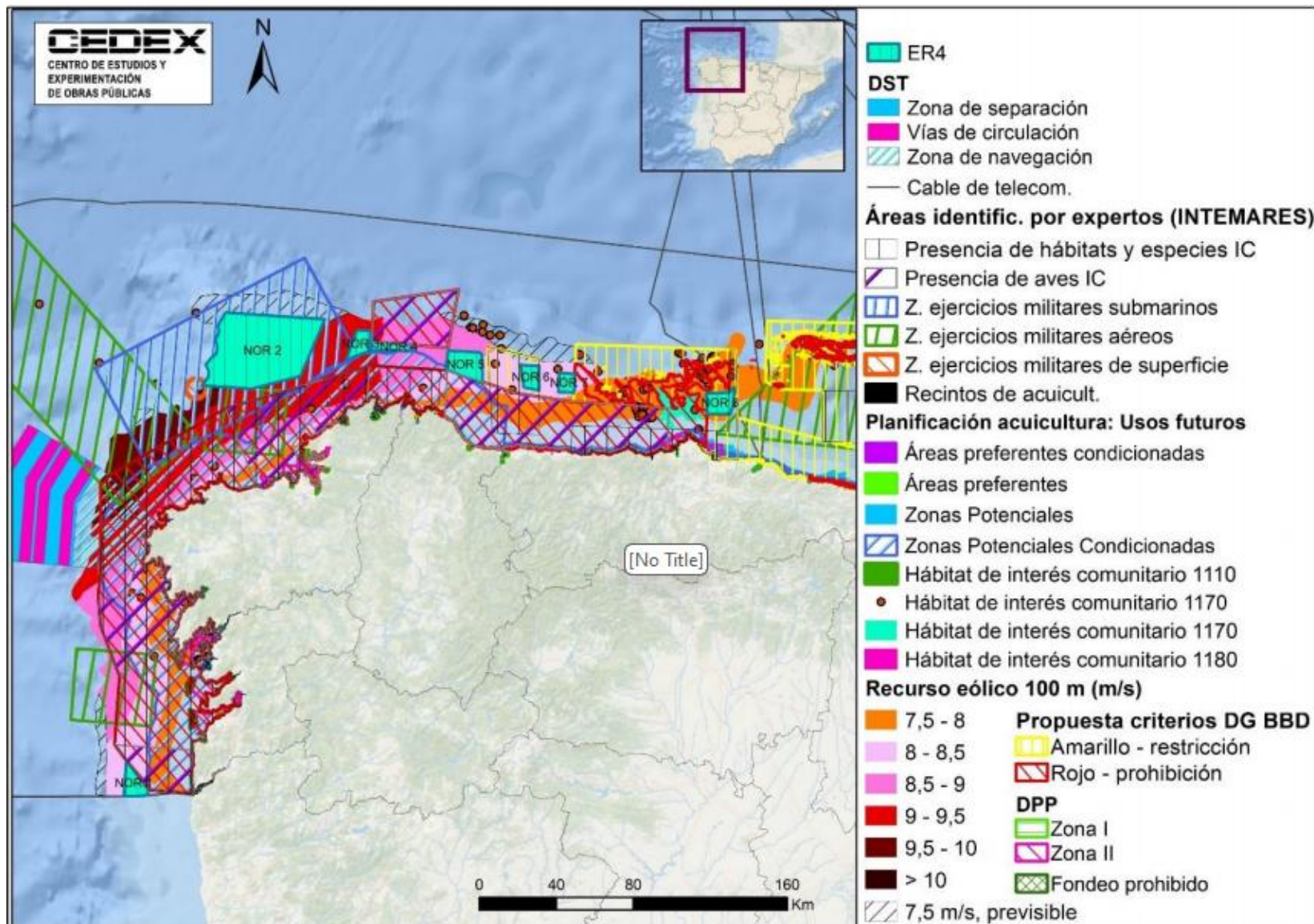
# Overview of Offshore Wind Plans/Developments in Galicia

## Spatial Maritime Planning (POEM). Bathymetry



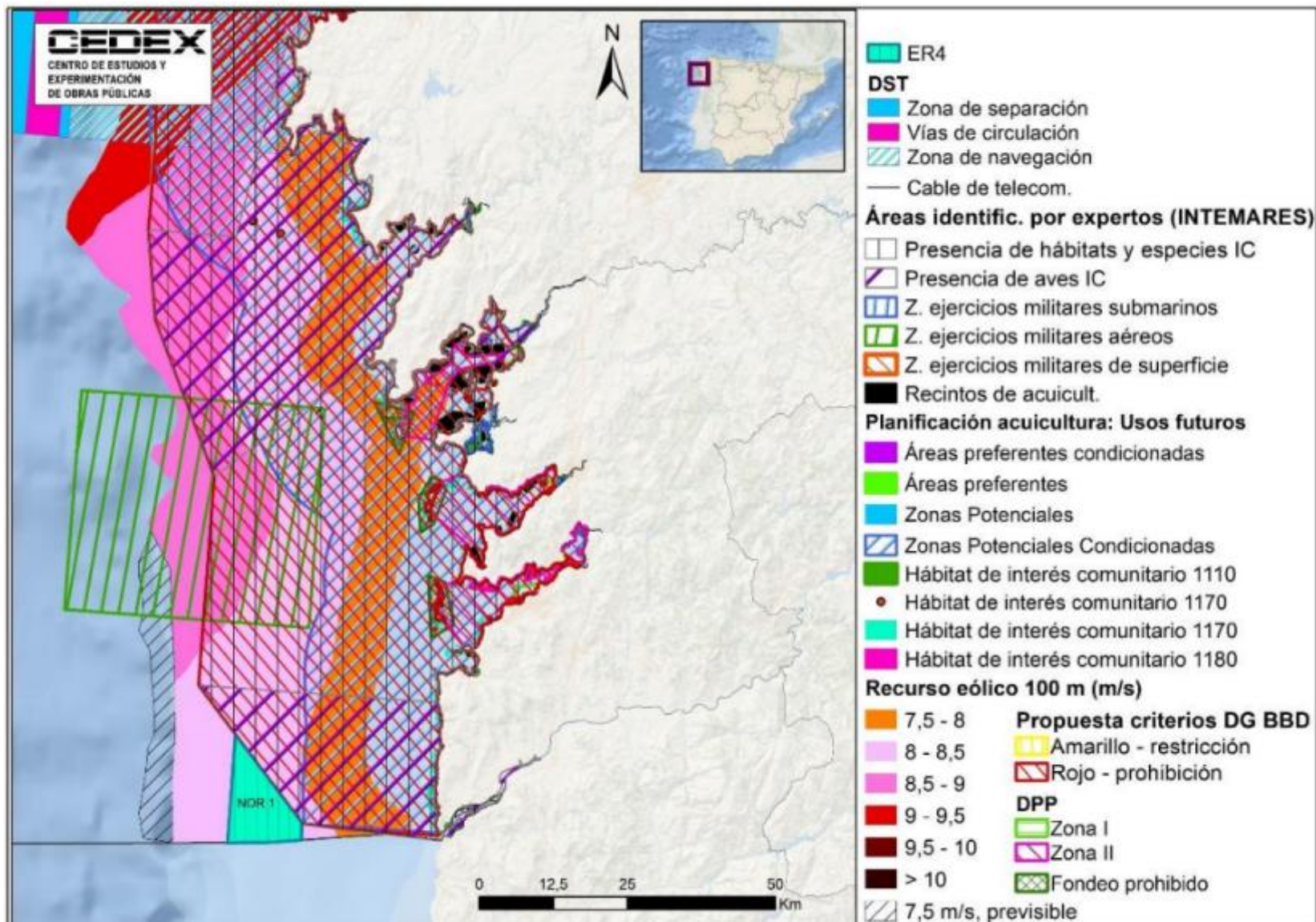
# Overview of Offshore Wind Plans/Developments in Galicia

## North Atlantic



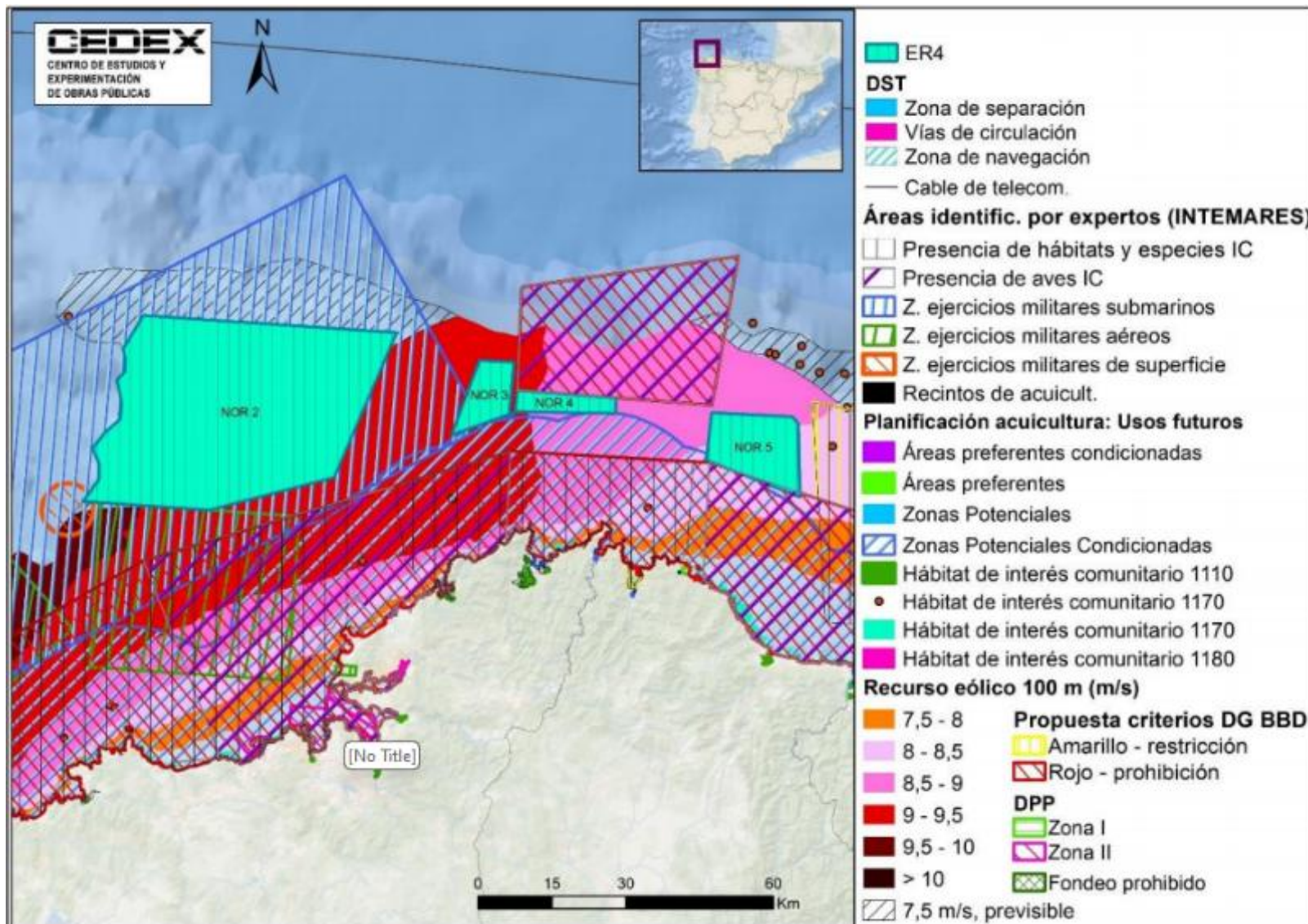
# Overview of Offshore Wind Plans/Developments in Galicia

NorthAtlantic. NOR 1



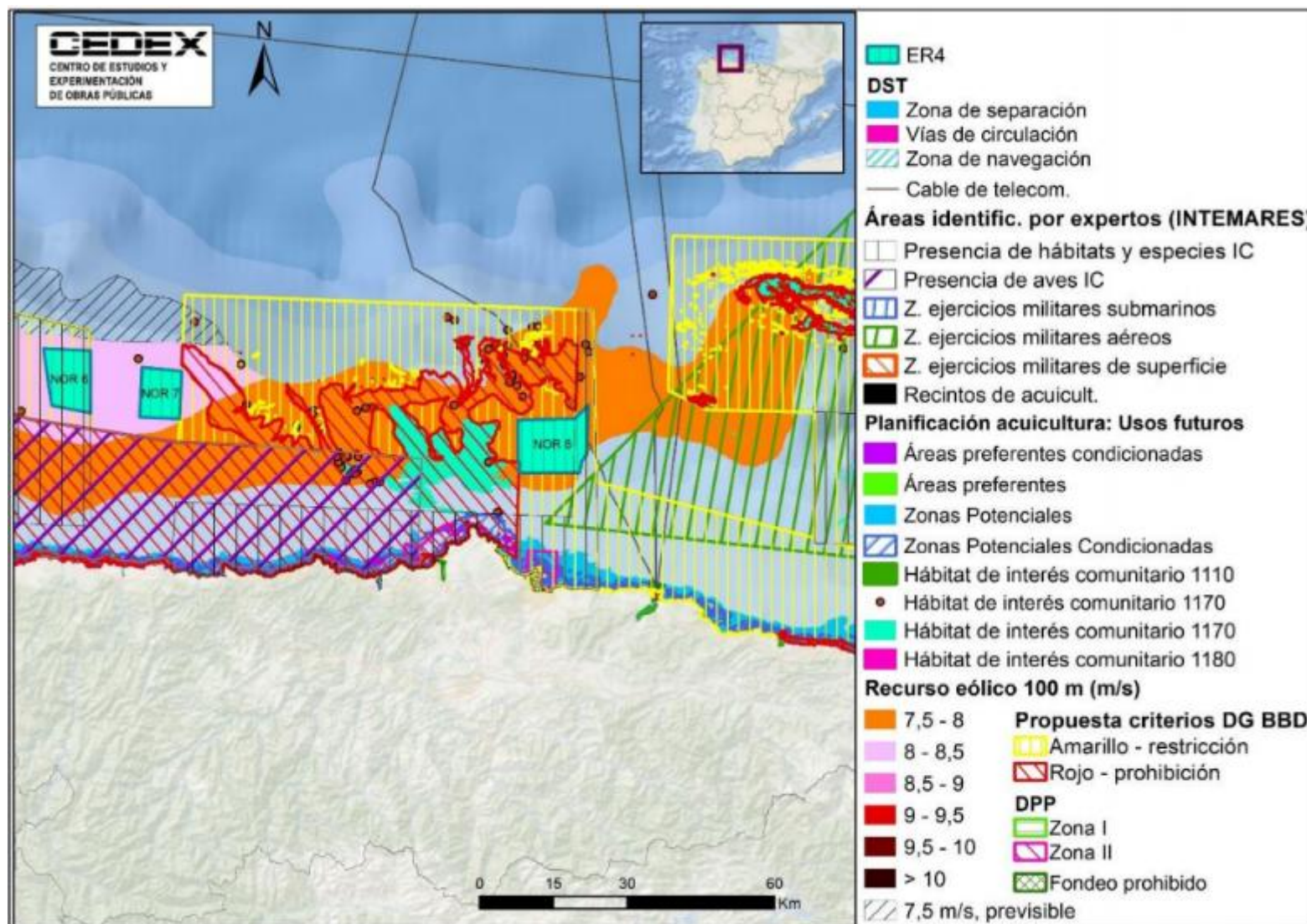
# Overview of Offshore Wind Plans/Developments in Galicia

NorthAtlantic. NOR 2 , 3, 4, 5



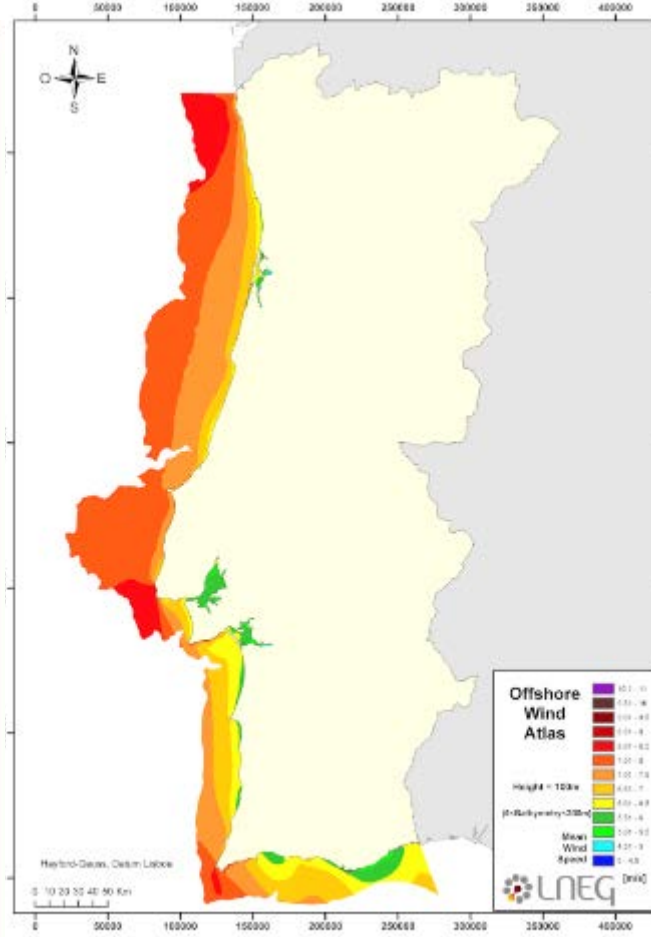
# Overview of Offshore Wind Plans/Developments in Galicia

NorthAtlantic.NOR 2 , 3, 4, 5



# Overview of Offshore Wind Plans/Developments in Galicia

## Summary . The big figures.



5GW 2030 target 🎯 of floating wind capacity in the **Iberian Peninsula ( 2GW Portugal + 3GW Spain)**. In other words:

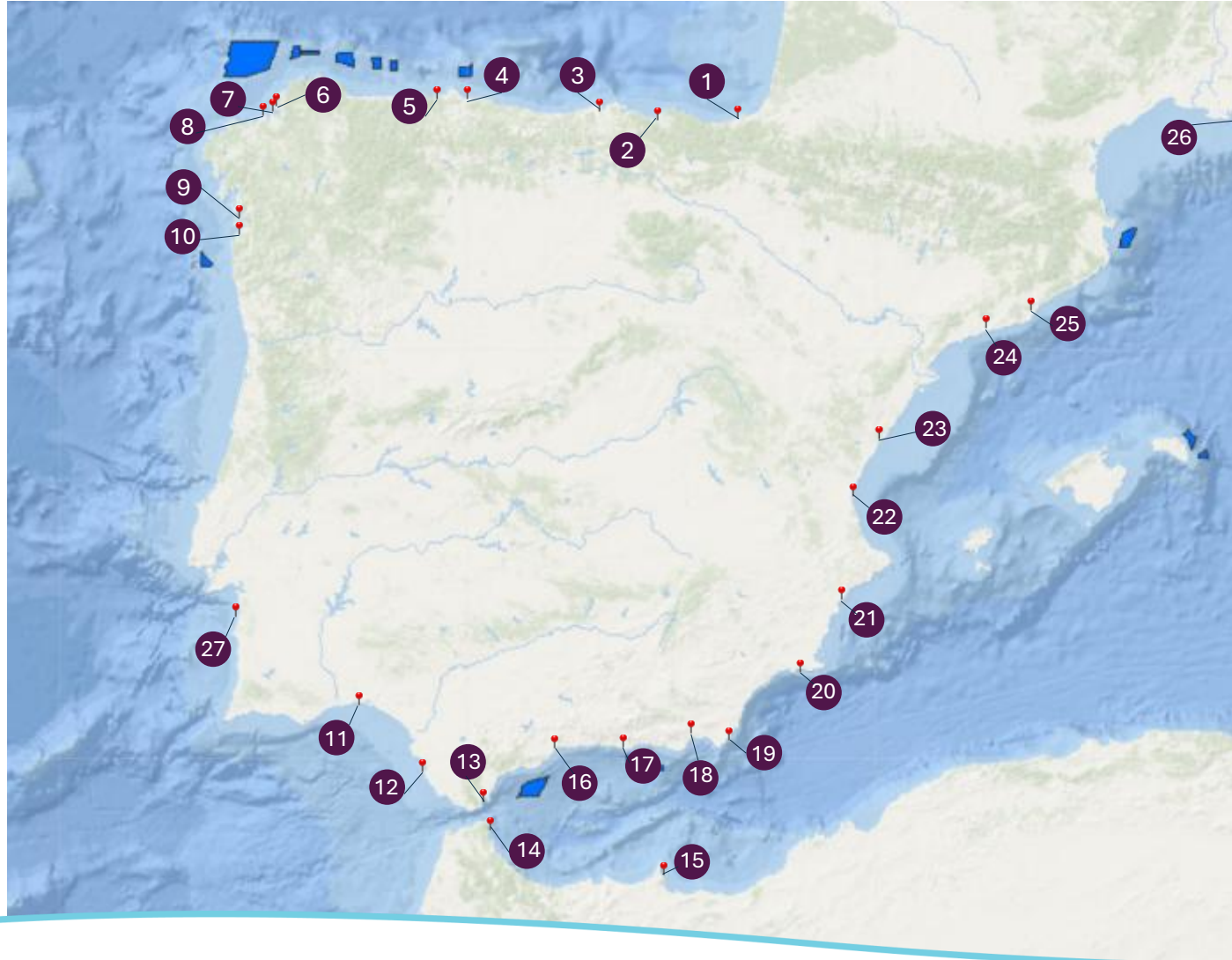
- ◆ 250 to 333 floating wind turbines in 5 years, 50-67 units/year. 😬
- ◆ ~1 500 000 tons of steel floaters or 😬
- ◆ ~8 000 000 tons of concrete floaters 😬
- ◆ ~ 2 000 km of mooring lines 😬
- ◆ ~ thousands of km for power cables 😬
- ◆ Millions of hours of engineering, consultancy, management, sales, legal, financial, construction and offshore installation and maintenance 🧑🏻‍🔧 🧑🏻‍🔧
- ◆ 20 000 M€ - 25 000 M€ total investment

Auction rules are to be issued (when?) and what it is happening next? The ball will be on the industry's court. Many challenges to face:

- Harbours upgrades
- Increase wind turbines and floaters reliability
- Optimize Industrialization and serial production
- Training and recruitment of skilled manpower
- Tens of specialized offshore ships required

# Key Projects and Companies active in the region

## Main Harbours



1. Pasajes Harbour
2. **Bilbao Harbour**
3. Santander Harbour
4. **Gijón Harbour**
5. **Avilés Harbour**
6. **Navantia Ferrol Harbour**
7. **Ferrol outer Harbour**
8. **Langosteira Harbour**
9. Marín Harbour
10. **Vigo Harbour**
11. Huelva Harbour
12. Cádiz Harbour
13. Bahía de Algeciras Harbour
14. Ceuta Harbour
15. Melilla Harbour
16. Málaga Harbour
17. Motril Harbour
18. Almería Harbour
19. Carboneras Harbour
20. **Cartagena Harbour**
21. **Alicante Harbour**
22. **Valencia Harbour**
23. **Castellón de la Plana Harbour**
24. **Tarragona Harbour**
25. **Barcelona Harbour**
26. FRANCE: Fos Sur Mer
27. PORTUGAL: Lisnave

Main  
Galician Harbours

# Key Projects and Companies active in the region

## Steel Construction



## Concrete Construction



## Shipbuilding – Maritime Services – O&M

# Key Projects and Companies active in the region

The offshore wind industry in Galicia will bring together companies from the renewable energy sector, shipbuilding, and civil construction.



## ESPECIALIZADOS EN SERVICIOS DE EÓLICA MARINA SPECIALISED IN OFFSHORE WIND SERVICES



## POTENCIA ECONÓMICA ECONOMIC POWER

225

EMPRESAS CON CAPACIDAD EN EL DESARROLLO DE LA EÓLICA MARINA

COMPANIES WITH OFFSHORE WIND DEVELOPMENT CAPACIT

3.000

EMPLEOS DIRECTOS  
DIRECT JOBS

12.000

EMPLEOS QUE SE PODRÍAN ALCANZAR EN 2030

JOBS THAT COULD BE REACHED IN 2030

# Key Projects and Companies active in the region

## Main Players Offshore Wind: From developers to SME's.

### Worldwide Offshore Wind Leading Developers\*

*\*In the red box, developers with offshore wind plans in Spain*

- Orsted (Denmark)
- RWE (Germany)
- EnBW (Germany)
- Vatenfall (Sweden)
- Northland Power (Canada)
- Iberdrola (Spain)
- Scottish Power (UK)
- Equinor (Norway)
- Ocean Winds (Spain)
- CORIO
- SSE (UK)
- Parkwind (Belgium)
- Shell (UK)
- Total Energies (France)
- EDF (France)
- BP (UK)
- Qair (France)
- Qenergy (South Korea)
- Skyborn Renewables (Germany)
- Elicio (Belgium)
- Baywa Re (Germany)
- COP Copenhagen Offshore Partners (Denmark)

### Important Local Players + Partnerships\*\*

*\*\* Since 2021, several alliances have been publicly disclosed. Some of them are still active, while others are on hold or have been cancelled.*

*Cluergal members bring valuable experience in renewable energy development, making them strong partners for large developers.*

*Consultants can support development and origination.*

- Iber BlueWind
- Capital Energy (Spain) → Shell
- Acciona Energy → SSE
- Naturgy → Equinor
- Qualitas Energy → Coreo
- Disa
- Endesa – ENEL
- Repsol – Orsted
- Eni-Plenitude

# Key Projects and Companies active in the region

## Main Players Offshore Wind: WIND TURBINES

Vestas and Siemens Gamesa Renewable Energy already have facilities in Galicia. Other companies supplying wind turbine generator (WTG) components, such as towers, electrical equipment, logistics, WTG assembly and consultancy services, are also based in the region.

### Wind Turbines

- Siemens Gamesa Renewables SGRE (Germany-Spain)
- Vestas (Denmark)
- General Electric GE ( USA)
- MING YANG (China)
- Goldwind (China)
- Envision (China)



# Key Projects and Companies active in the region

## Main Players Offshore Wind : foundations, floaters, infraestructures

- Navantia Seanergies (Spain)
- GRI (Spain)
- Windar (Spain)
- Haizea (Spain)
- Bladt (Denmark)
- SiF (Netherlands)
- Smulders (Belgium)
- Steelwind Nordenham (Germany)
- EEW (Germany)



## Foundations, Floaters, Infraestructures

- Ferrovial (Spain)
- Acciona Construction (Spain)
- ACS-Dragados (Spain)
- OHLA (Spain)
- FCC (Spain)
- Eiffage (France)

# Key Projects and Companies active in the region

## Main Players Offshore Wind: Cable

Tier-1 suppliers of submarine power cables (export and inter-array) for offshore wind farms. Prysmian and Nexans are present industrially and commercially. NKT has a commercial division.

While Galicia does not host major subsea cable manufacturers, local companies within the Cluergal cluster are well positioned to support these suppliers through industrial services, steel fabrication, and port logistics

### Cable



- Prysmian (Italia)
- JDR (UK)
- Hellenic cables (Greece)
- Nexans (France)
- Hengtong Marine Cable (China)
- Sumitomo Electric (Japón)
- NKT (Dinamarca)

# Key Projects and Companies active in the region

## Main Players Offshore Wind : Shipbuilding and Auxilliary Industry

With a strong background in shipbuilding, renewables, energy and industrial services, Cluergal companies are ideally positioned to become key contributors to the offshore wind value chain in Galicia and Spain.

### Shipyards

- Armon
- Freire
- Nodosa
- Marina Meridional
- Cardama
- Metalships
  
- Gondan
- Murueta
- Zamakona
- Balenciaga



### Auxilliary Industry

... Tens of companies already working for shipbuilding, offshore , renewables industry.



# Key Projects and Companies active in the region

## Main Players Offshore Wind: Offshore installation and marine contractors services

This segment represents a supply chain gap where Spanish companies are actively positioning themselves.

### Offshore Installation and Marine Contractors services



Courtesy of CBW – CAPITAL BLUEWIND by  
BlueNewables and YouWind Renewables

**Marine AREA: NOR1**

**FARM SUMMARY**

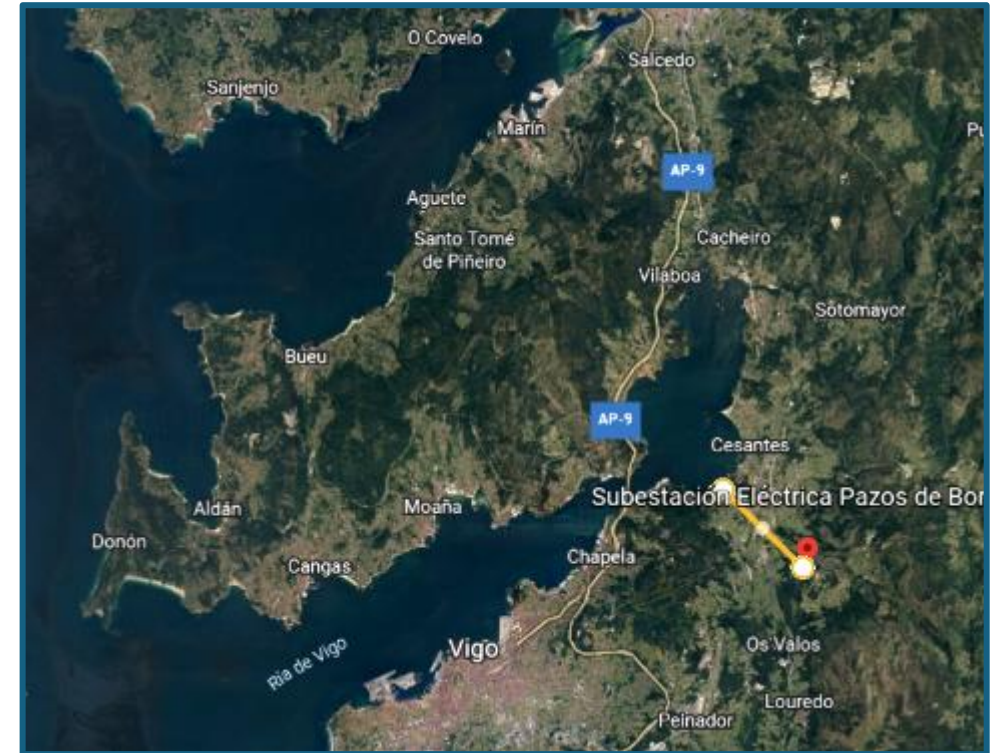
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*Blue development for the future energy*



# Network access points

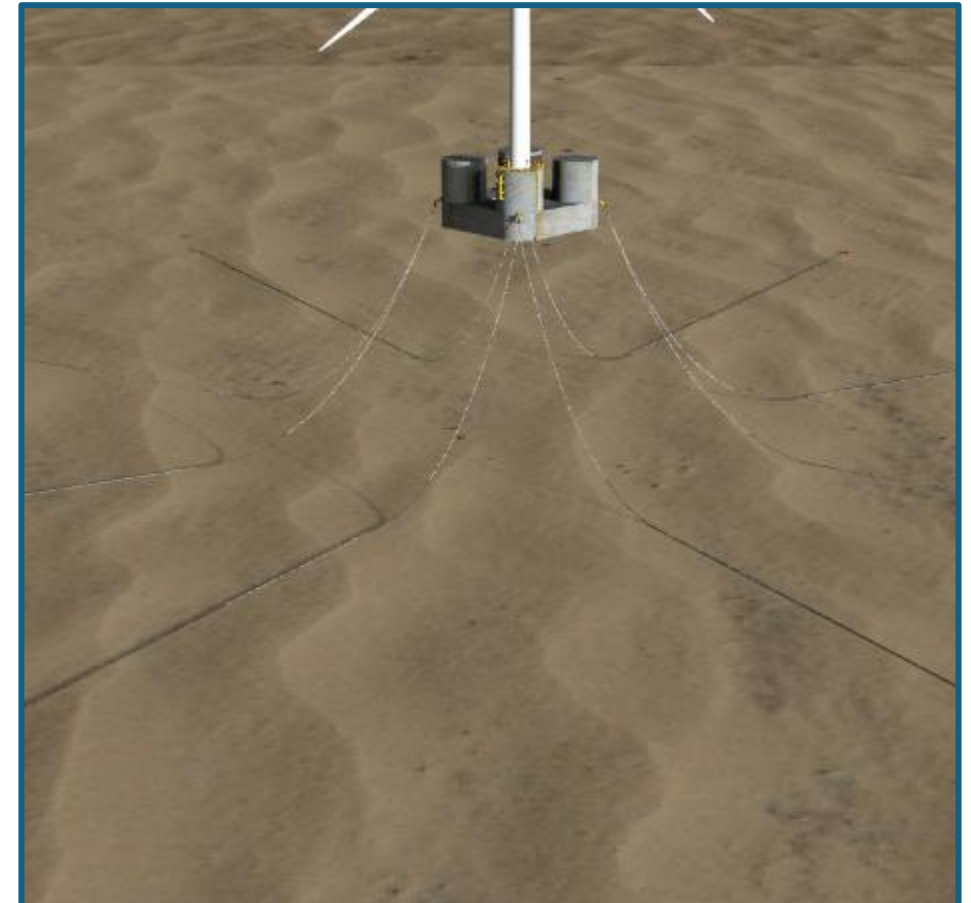
Selected option: Pazos de Borben



# Concrete solution

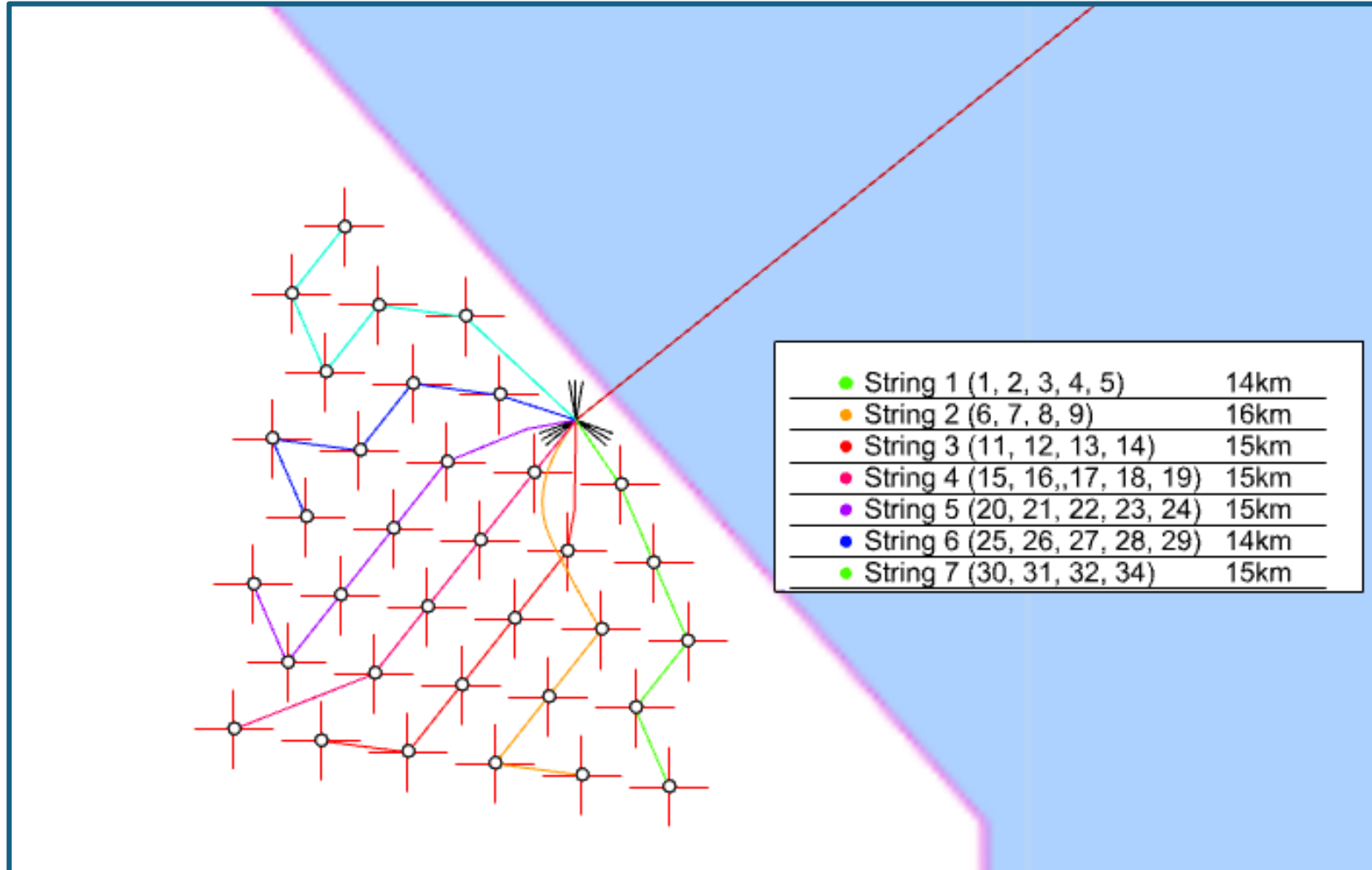
Platform, mooring, and construction

Platform type	Semisubmersible
Platform	S-bos
Mooring system type	Catenary
Mooring characteristics	6-8 lines of chain with links of 140mm and 600-800m long. Footprint of radius ~400m
Construction port	Langosteira
WTG assembly port	Langosteira
OSS	Si
Network access point	El Sabon
Export cable	2 cables of 220 kV of 65 km length
Interarray cable	66kV cables in 6 lines of 5 WTG y 1 line of 4 WTG



# Concrete solution

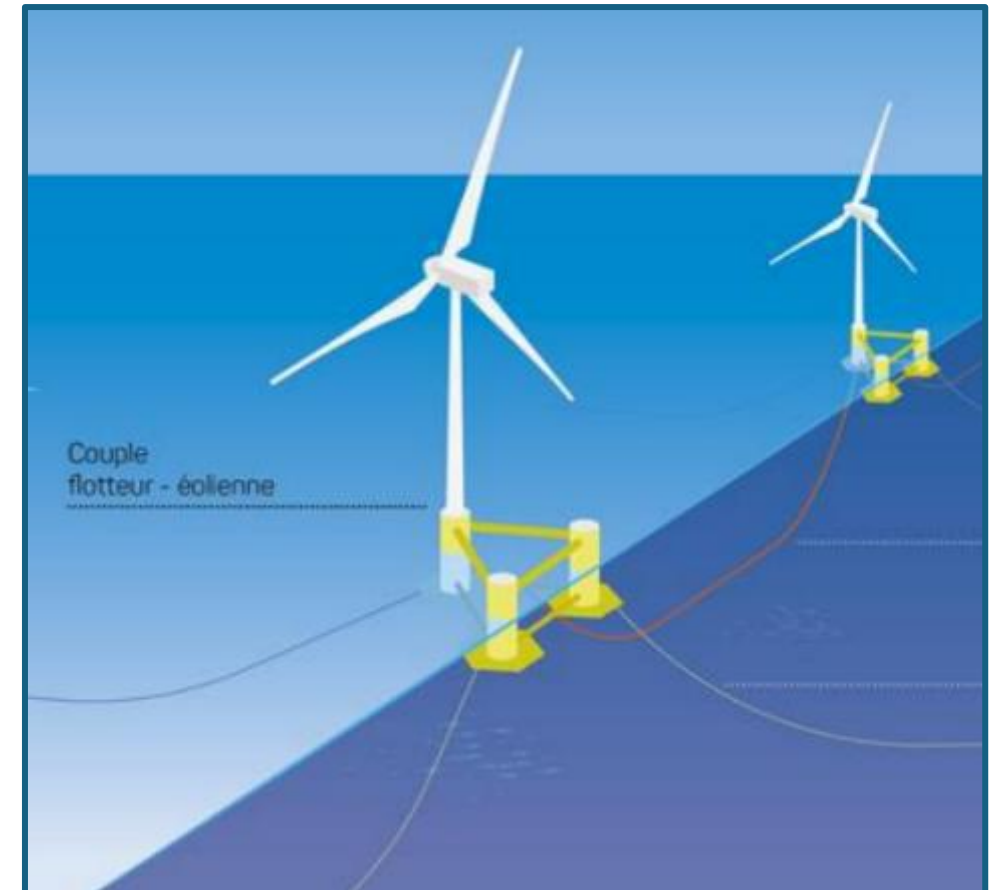
Farm layout



# Steel solution

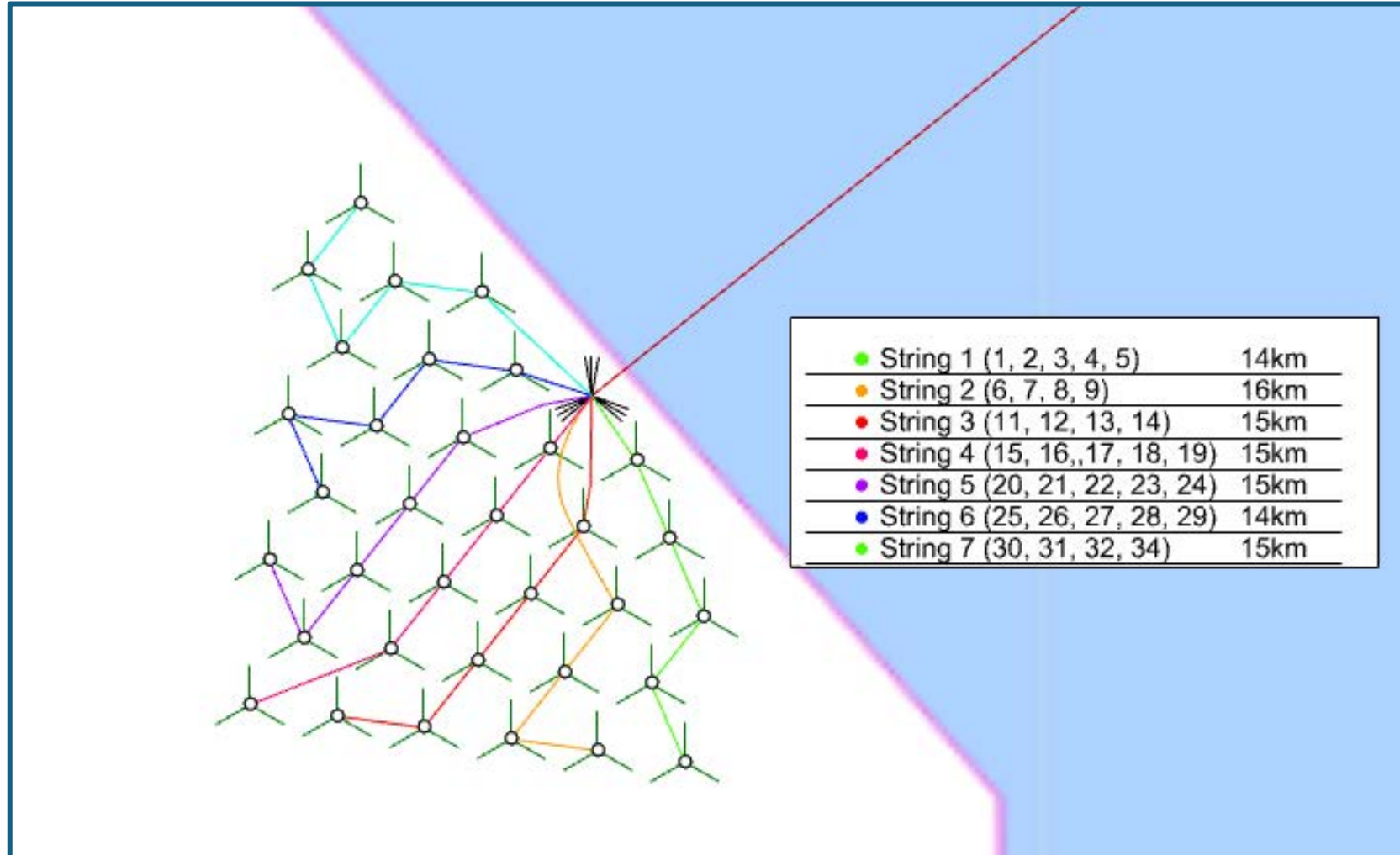
Platform, mooring, and construction

Platform type	Semisumersible
Platform	WindFloat
Mooring system type	Catenary
Mooring characteristics	6 lines of chain with links of 140mm and 600-800m long. Footprint of radius ~400m
Construction port	Navantia Ferrol-Fene
WTG assembly port	Puerto exterior de Ferrol
OSS	Si
Network access point	El Sabon
Export cable	2 cables of 220 kV of 65 km length
Interarray cable	66kV cables in 6 lines of 5 WTG y 1 line of 4 WTG



# Steel solution

Farm layout



# Annual Energy Production



Producción energética anual	Parque 510 MW
AEP 50% probabilidad de excedencia	1836 GWh
AEP 90% probabilidad de excedencia	1598 GWh

Courtesy of CBW – CAPITAL BLUEWIND by  
BlueNewables and YouWind Renewables

Marine AREA: NOR4

FARM SUMMARY

---

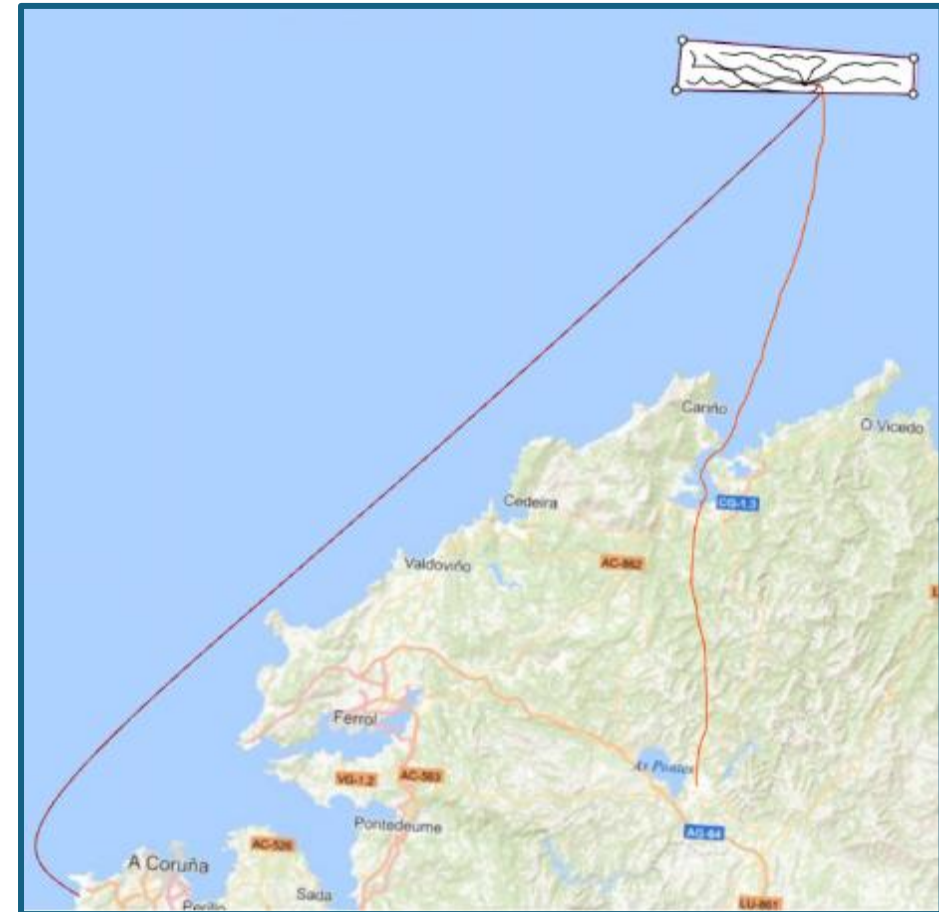
*Blue development for the future energy*



# Network access points

Benchmarking of two solutions

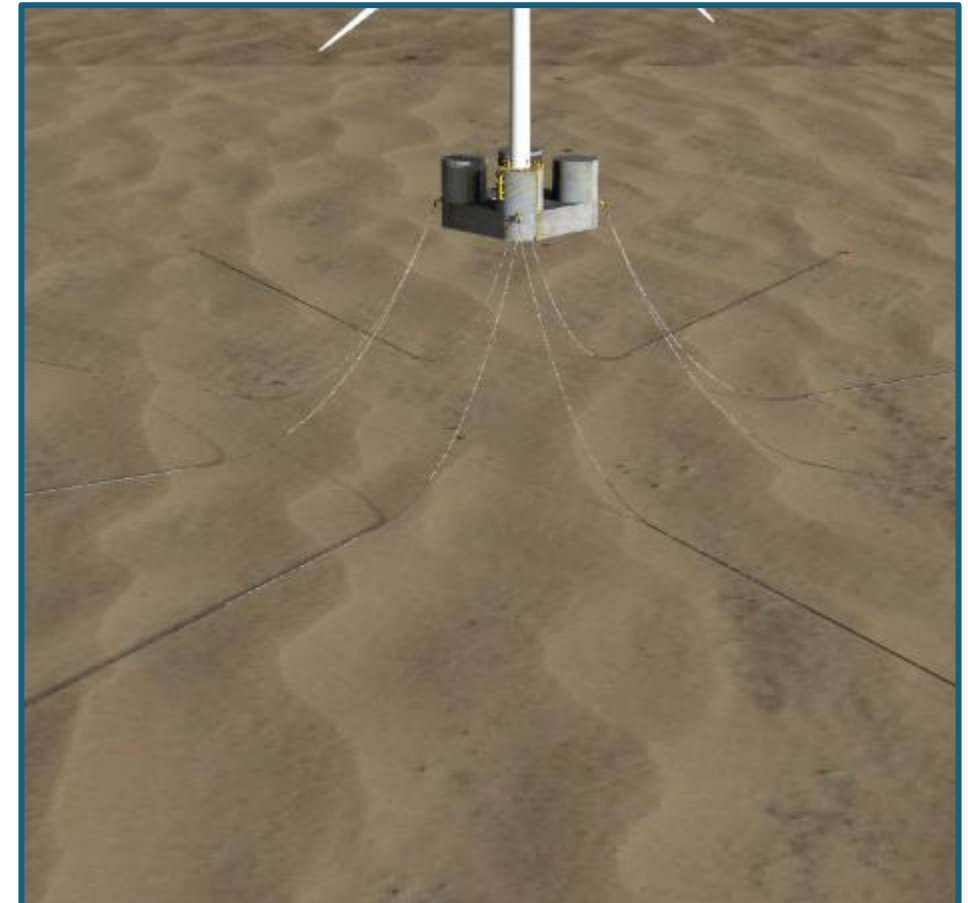
Cost	Sabon	As Pontes
Offshore cable	501.600.000,00 €	168.960.000,00 €
Onshore cable with PHD (offshore-onshore transition)	1.000.000,00 €	1.000.000,00 €
Onshore cable (underground)	-	37.004.000,00 €
Onshore cable (aerial)	-	5.742.000,00 €
Environmental costs	471.000,00 €	356.000,00 €
<b>Total</b>	<b>503.071.000,00 €</b>	<b>213.062.000,00 €</b>



# Concrete solution

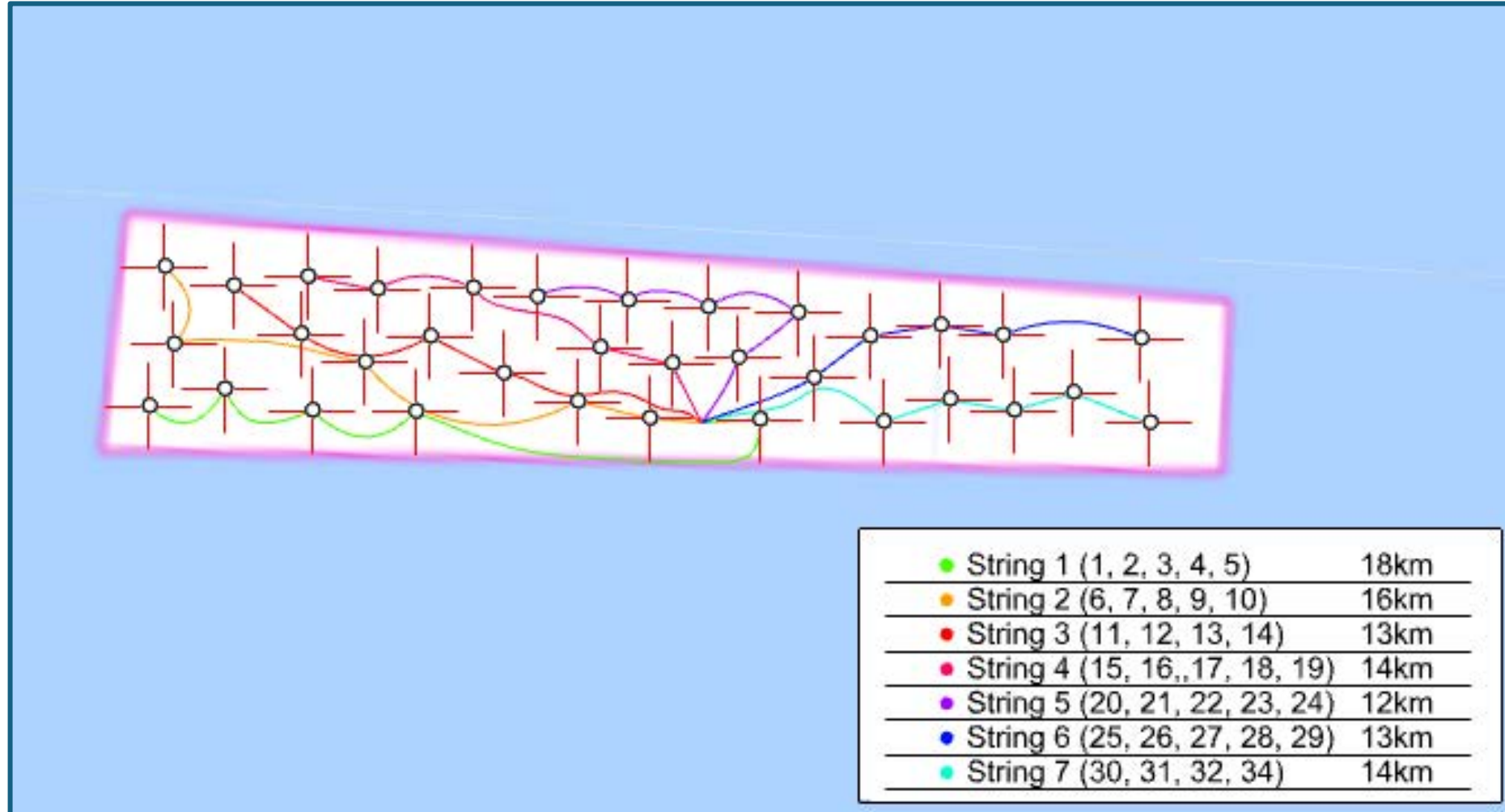
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Construction port	Langosteira
WTG assembly port	Langosteira
OSS	Si
Network access point	El Sabon
Export cable	2 cables of 220 kV of 95 km length
Interarray cable	66kV cables in 6 lines of 5 WTG y 1 line of 4 WTG



# Concrete solution

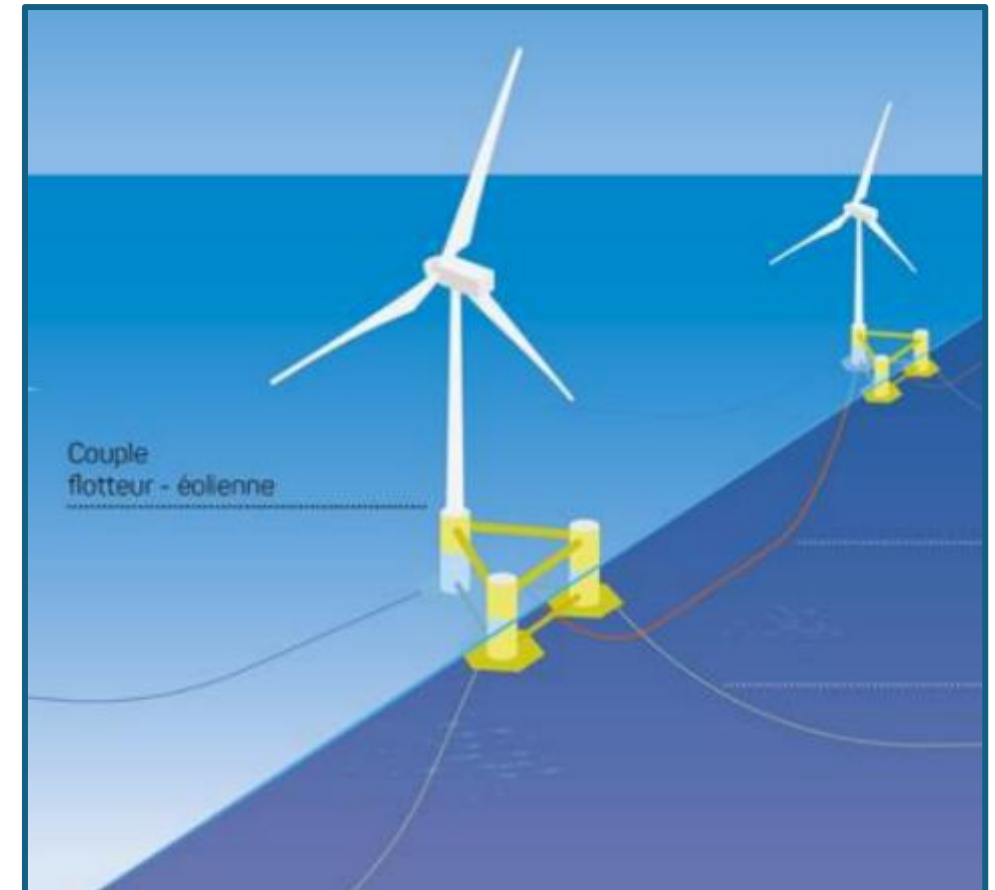
Farm layout



# Steel solution

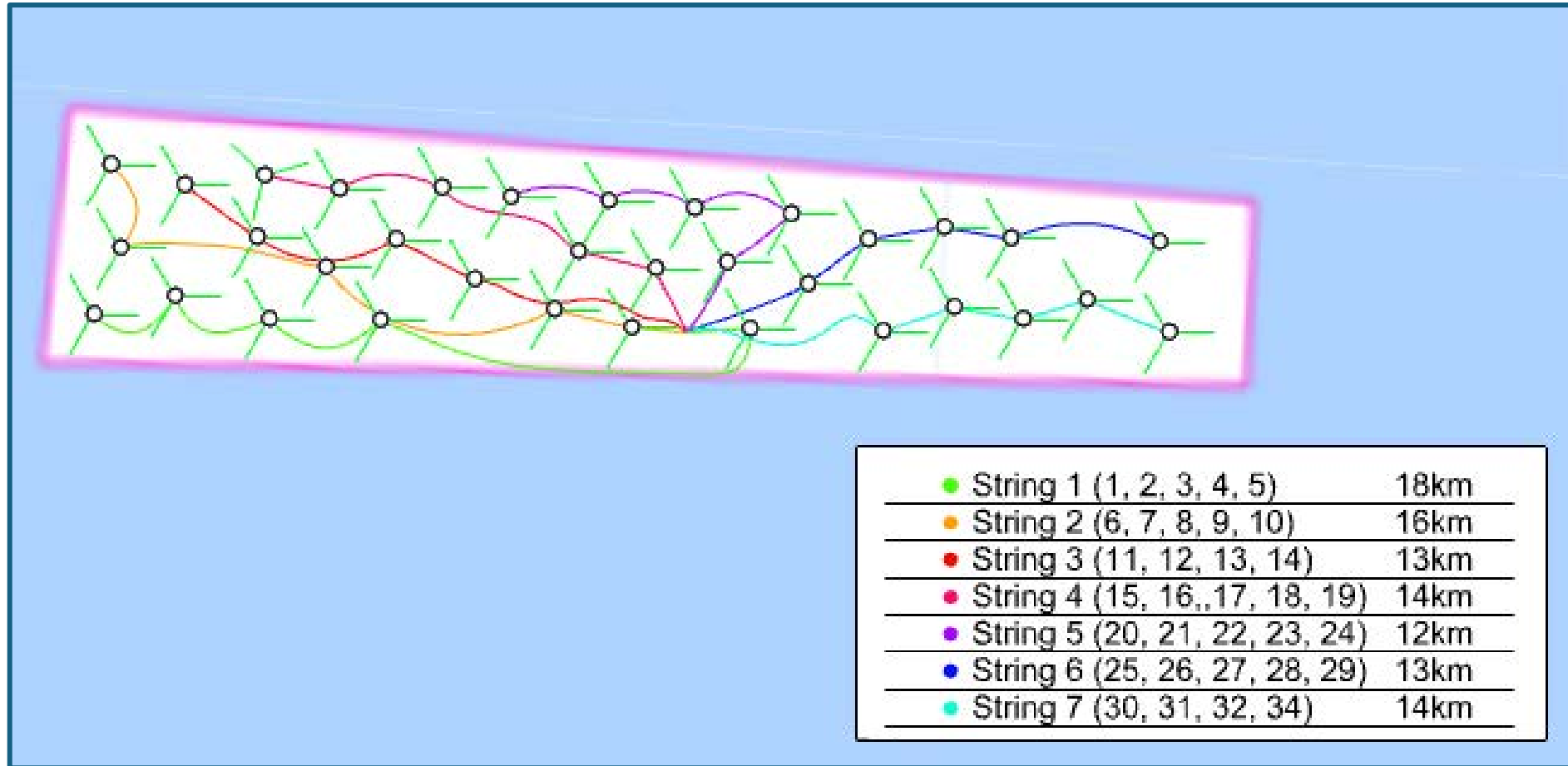
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# Steel solution

Farm layout



# Annual Energy Production

Producción energética anual	Parque 510 MW	Subzona 45MW
AEP 50% probabilidad de excedencia	2075.3 GWh	183.4 GWh
AEP 90% probabilidad de excedencia	1805.5 GWh	160.5 GWh

# Offshore Wind and Value Chain in Galicia

Oriol Sarmiento Díez - CLUERGAL

April 22, 2026



[www.cluergal.org](http://www.cluergal.org)

# CLUERGAL - Renewable Energy Cluster of Galicia

1

Founded in 2010

2

125 members

3

Full value chain representation

4

All renewable technologies

5

Promotion of business cooperation

6

Sector visibility and advocacy

7

Events and specialized training



# Companies in this meeting

Aeromedia	<a href="https://aeromedia.es/en/">https://aeromedia.es/en/</a>	leading drone (RPAS) services company, made up of a team of specialized engineers with extensive experience in sectors such as aeronautics, industry, surveying, forestry and emergencies.
Fe Energy	<a href="https://fe.energy/">https://fe.energy/</a>	company specialized in the development of sustainable energy generation projects
PTM	<a href="https://www.ptmar.com/en/">https://www.ptmar.com/en/</a>	shipping agents, stevedores, storage, chartering agents, custom agent, combined and multimodal transport
BlueNewables	<a href="https://bluenewables.com/">https://bluenewables.com/</a>	Engineering consultancy at the cutting edge of the innovation within the blue economy. We support the marine renewables energy sector with technical know-how, advice and holistic approach
COVERWIND	<a href="https://coverwind.es/en/home-2/">https://coverwind.es/en/home-2/</a>	Project Management, Supervision and Inspection, Assembly, operation and maintenance
GHENOVA	<a href="https://ghenova.com/en/">https://ghenova.com/en/</a>	engineering company that works both nationally and internationally offering multidisciplinary engineering and consulting services.
Acebron Group	<a href="https://acebrongroup.com/en/">https://acebrongroup.com/en/</a>	Machining, Surface Treatment, Welding and Metal Sheet Working
Green Hat Consulting	<a href="https://greenhatconsulting.net/en/home/">https://greenhatconsulting.net/en/home/</a>	Development of renewable energy projects. Wind Consultancy
Grupo Intaf	<a href="https://grupointaf.es/en/">https://grupointaf.es/en/</a>	Metal-mechanical Services. Engineering. Manufacturing. Maintenance.
Arba	<a href="https://arba.energy/index.php?lang=en">https://arba.energy/index.php?lang=en</a>	Origination. Development. Financing. Construction. Commercial Operations
GANAIN	<a href="https://www.ganain.es/">https://www.ganain.es/</a>	CONSTRUCTION OF OFFSHORE WIND STRUCTURES Structures for offshore wind, primary steel, secondary steel, knots, boat landings.

# ONSHORE WIND ENERGY



**Spain: 13 GW (2021) a 37 GW (2030)**

**Galicia 4 GW - 300 MW (2020-2025)**

**Repowering**

**Administrative permitting**

**Social acceptance**

**Supply Chain**

# OFFSHORE VALUE CHAIN DEVELOPMENT



VESSELS | SHIPYARDS | PORTS

COMPONENTS | EQUIPMENTS | LOGISTICS

ENGINEERING | ASSEMBLY | INSTALLATION

OPERATION & MAINTENANCE

ECONOMIC IMPACT

EMPLOYMENT

# KEY TAKEAWAYS

Strategic focus on offshore wind

Strong environmental commitment

Need for social consensus (fish sector)

Industrial development and local value chain

Boosting engineering, innovation and technological centres



**THANK YOU FOR YOUR ATTENTION**

Oriol Sarmiento - Cluergal

[oriolsarmiento@cluergal.org](mailto:oriolsarmiento@cluergal.org)

<https://www.linkedin.com/in/oriolsarmiento/>



marine  
renewables  
canada

# Sector Overview: Offshore Wind in Canada

---

WindEurope 2026

# About Marine Renewables Canada



## Who we are

National industry association for offshore wind, tidal, wave, and river current energy

200+ members (technology and project developers, utilities, supply chain, researchers, Indigenous organizations, municipalities)

**Our Mission:** To champion Canada's growing marine renewable energy sector through advocacy, engagement, and education and expand market opportunities across the country and globally.

## What we do

- **Advocacy:** Support sector growth through policy development and advocating for enabling measures
- **Supply chain development:** Support supply chain development by facilitating collaboration and connections amongst industry, suppliers, and communities
- **Education & engagement:** Share information, educate, and engage
- **International business development:** Provide market intelligence, lead international business development activities, and facilitate investment attraction

# Snapshot | Marine Renewable Energy Activity in Canada



**Offshore Wind**  
• BC Call for Power



**Tidal Energy Projects (British Columbia)**  
• Yourbrook Tidal Energy – 500 kW  
• Blind Channel Test Centre



**Wave Energy**  
• Mowachaht-Muchalaht First Nation wave energy project



Pacific Regional Institute for Marine Energy Discovery



**River Current**

- Canadian Hydrokinetic Turbine Test Centre (CHTTC)
- ORPC Canada



**Offshore Wind**  
• 5 GW target - Nova Scotia



**Tidal Energy Projects (Nova Scotia)**

- Fundy Ocean Research Centre for Energy (FORCE)
- New Energy Corporation – 800 kW
- Nova Innovation – 1.5 MW
- Orbital Marine Power - 12.5 MW

# Drivers for Offshore Wind in Canada



## Clean electricity demand

- 2-3 x more needed by 2050
- Renewable electricity targets
- Electrification of the economy; clean fuels



## Energy security & resiliency

- Domestic renewable energy resources to support needs and protect against volatility
- Contribute to global needs (ex. green hydrogen and ammonia export)



## Economic opportunity

- Development requires skilled workforce
- Existing offshore and marine expertise, experience, and infrastructure

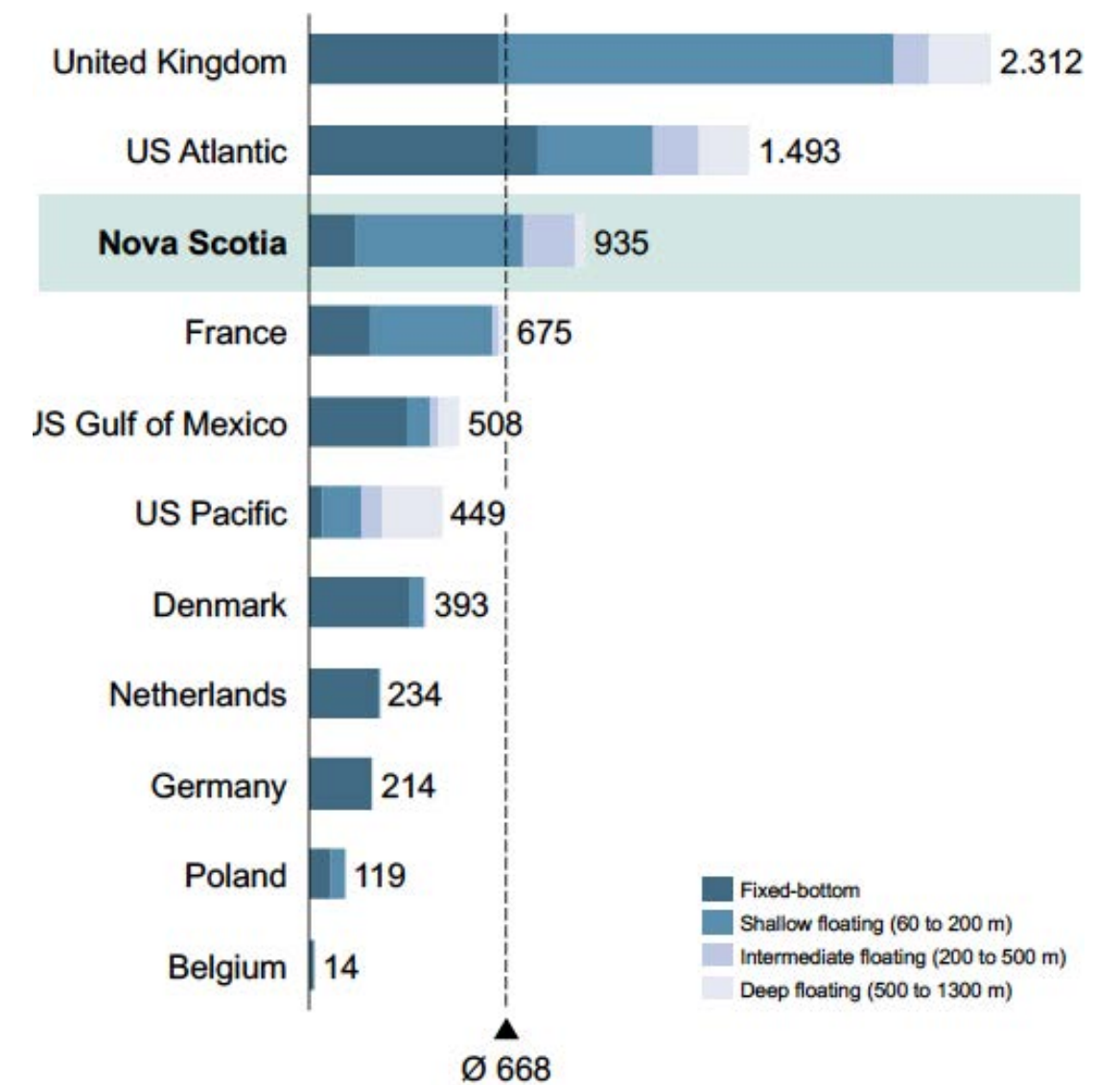
# Atlantic Canada | Offshore Wind Potential

## Atlantic Canada has some of the best untapped offshore wind resources in the world

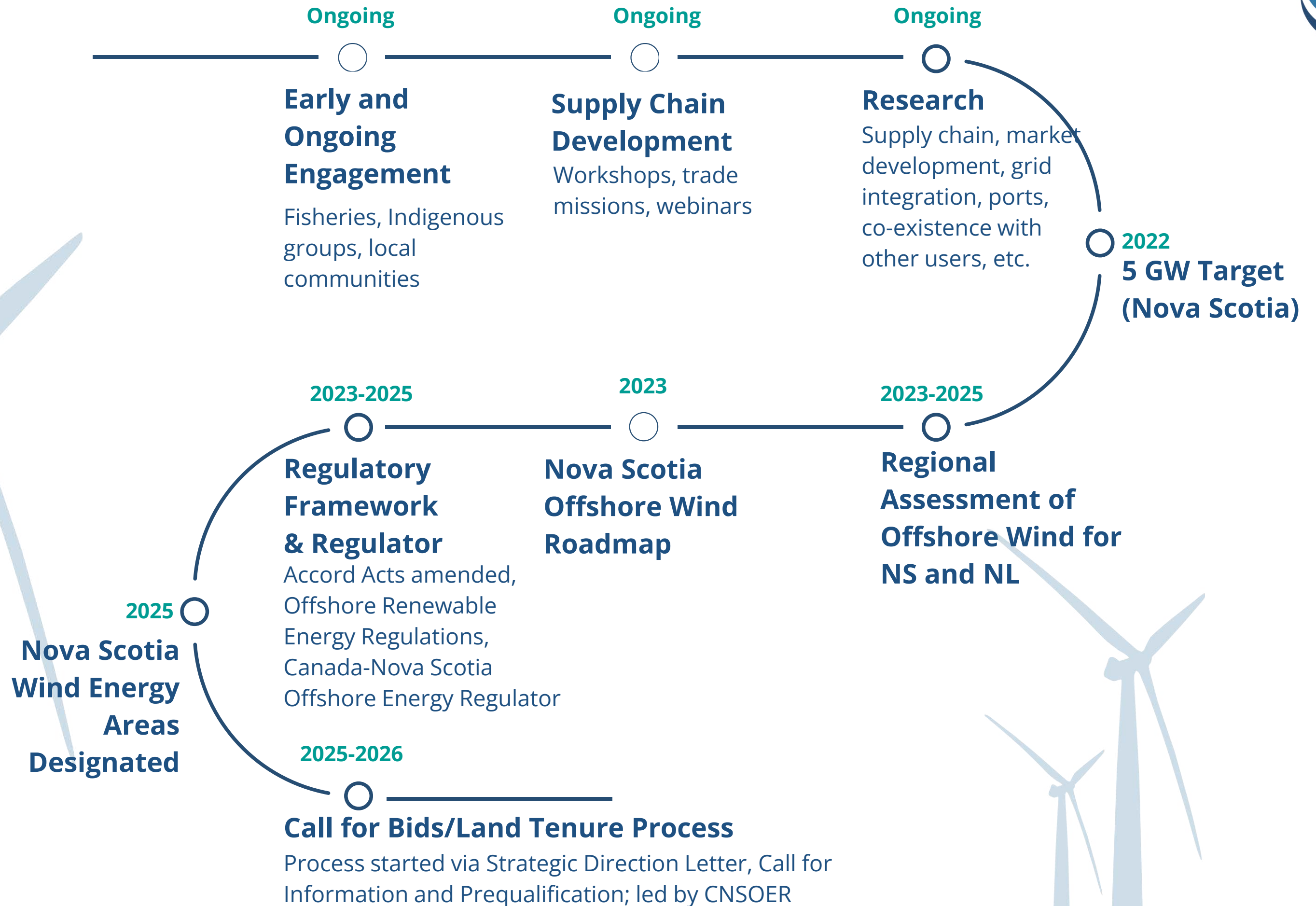
- Nova Scotia has wind speeds of 10-11 m/s (rivalling those of the North Sea)
- Suitable seabed and capacity for both fixed and floating technologies



Offshore resource technical potential by region, gigawatts<sup>(1)</sup>



# Progress | Offshore Wind in Nova Scotia



# Supportive Policy Landscape



Key policies and legislation have been established in recent years that are positive for offshore wind development.



### **Amendments to the Accord Acts**

Establish regulatory framework and regulator for offshore renewables; supports land tenure process



### **Clean Economy Investment Tax Credits**

Vital in offsetting high upfront capital costs of marine renewables and attracting investment



### **Major Projects Office**

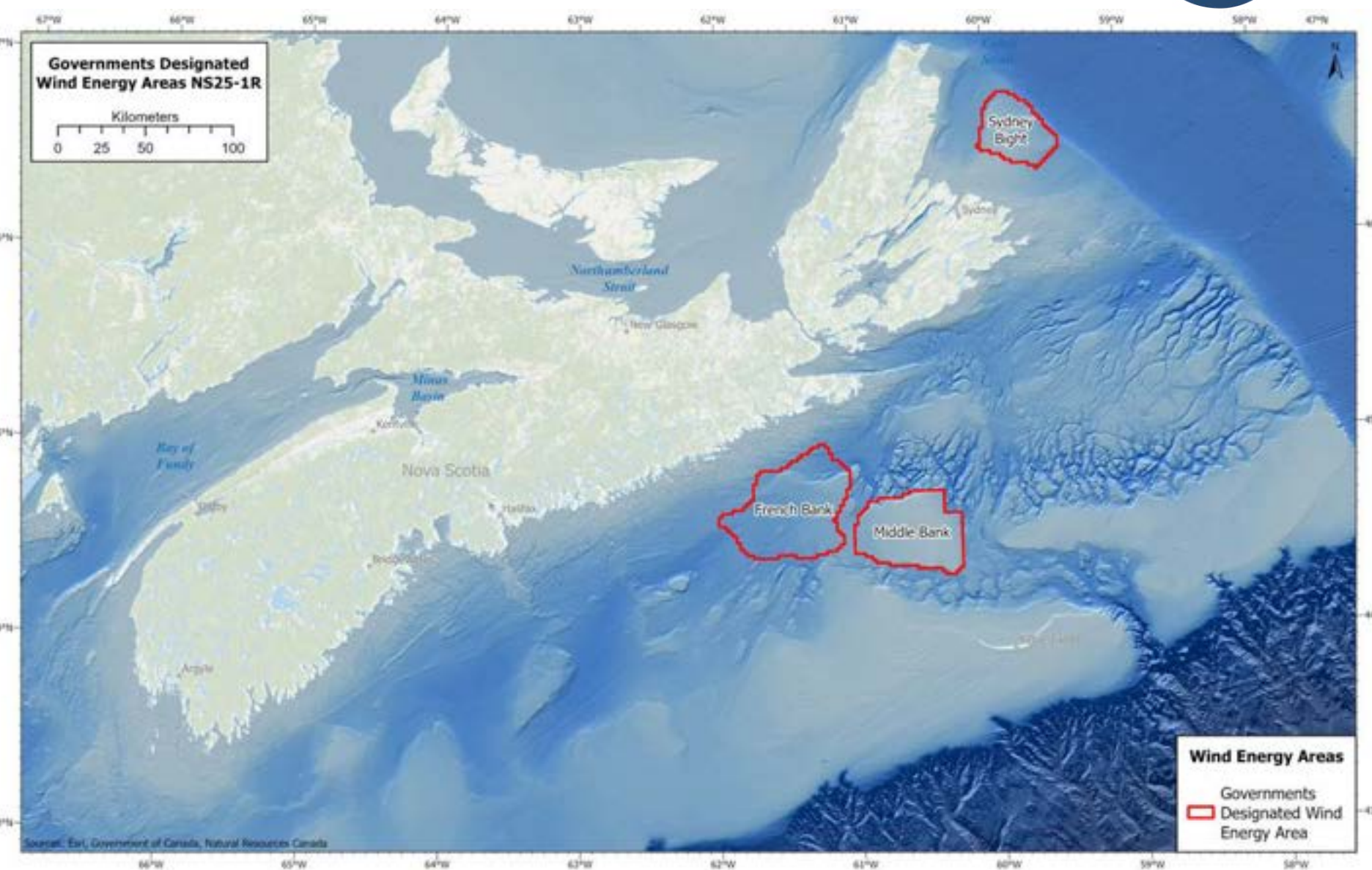
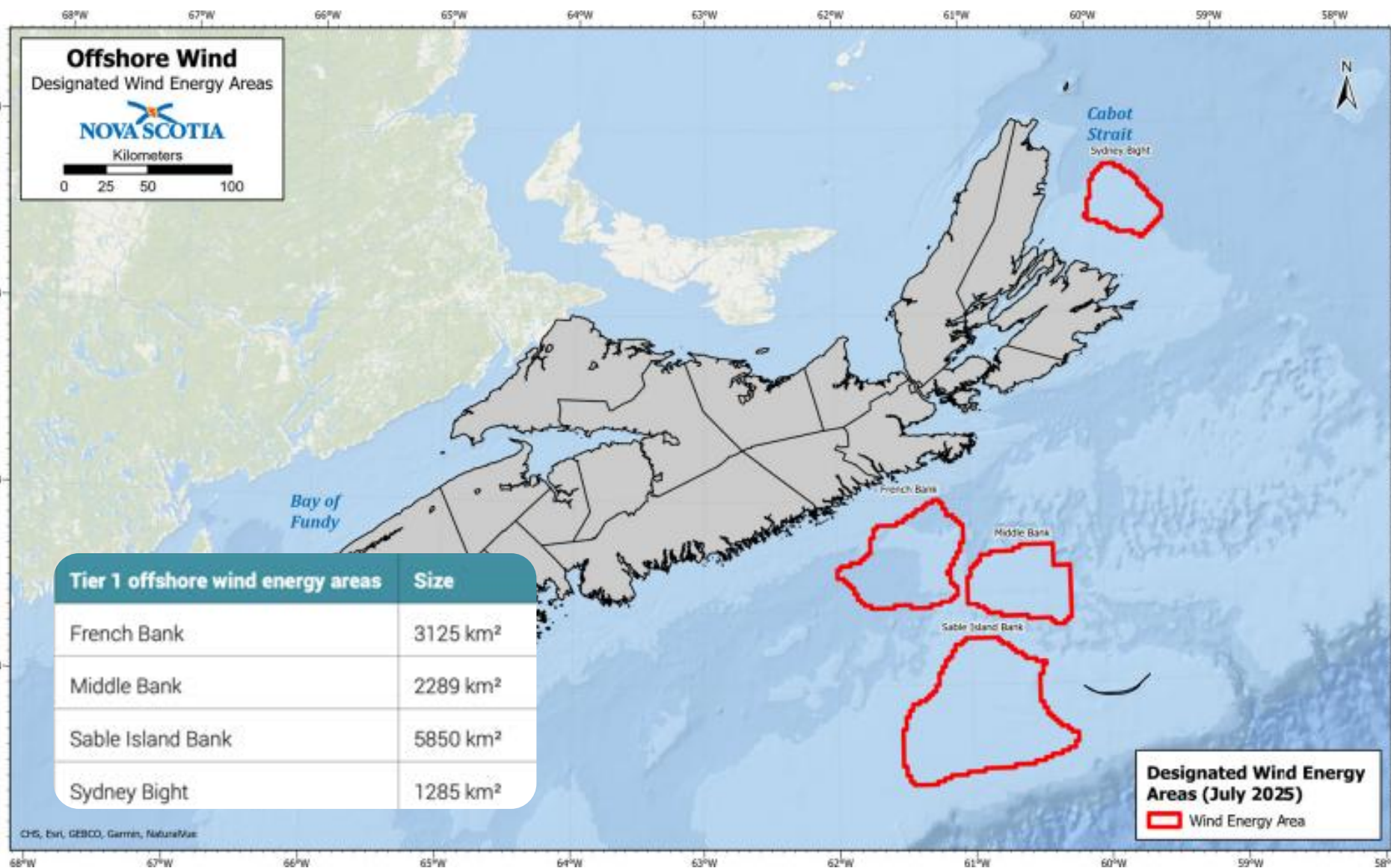
Could support streamlined permitting for large-scale projects like offshore wind and transmission



### **Various policies/legislation in Nova Scotia**

5 GW offshore wind leasing by 2030, Roadmap, legislative changes, Wind West proposal supporting offshore wind development

# Progress | Wind Energy Areas



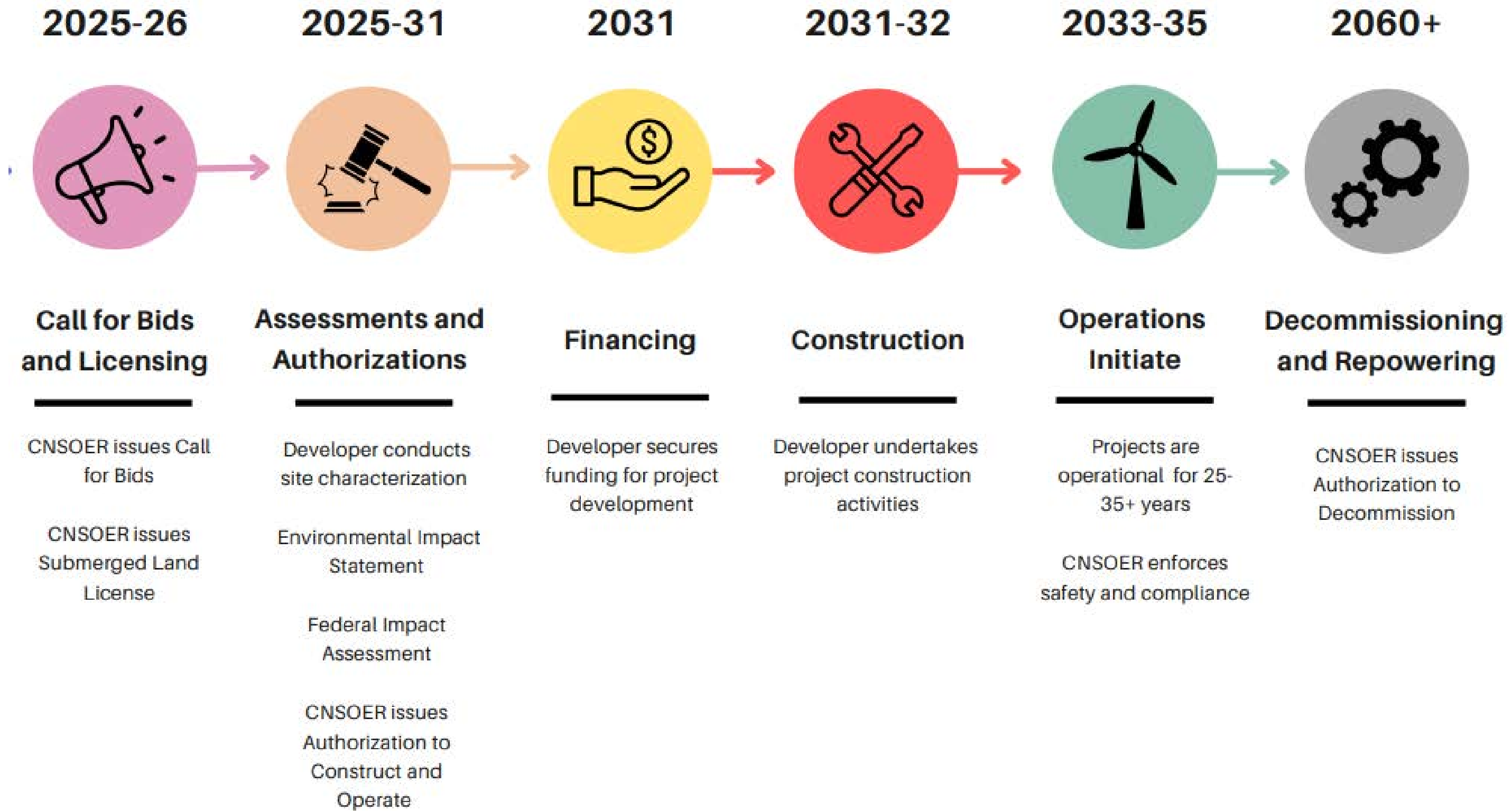
## Wind Energy Areas

- **4 areas** designated summer 2025: Emerald Bank, Sable Island Bank, Sydney Bight, Middle Bank, French Bank
- Up to **60+ GW** capacity

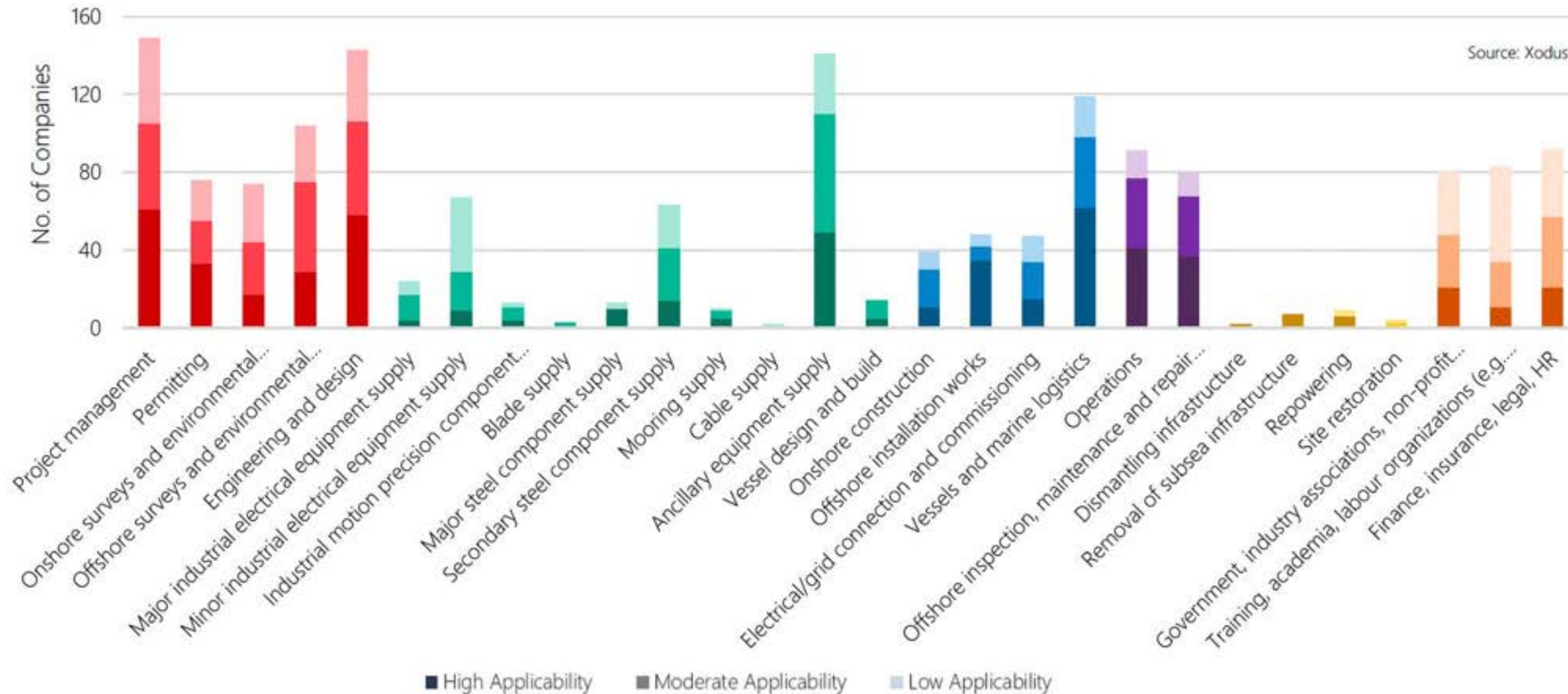
## First Call for Bids in 2026

- Strategic Direction to CNSOER targeting **3-5 GW**
- 3 Wind Energy Areas: **Sydney Bight, Middle Bank, & French Bank**
- Process underway, beginning with Call for Information and Prequalification

# Timeline | First Call for Bids



# Leveraging Supply Chain Strengths



~60% of businesses surveyed have **high or moderate applicability** with direct experience and relevant products/services for offshore wind development



**Strengths:** project development, ancillary equipment supply, vessels and marine logistics, offshore installation and maintenance



**New jobs:** 6,000 jobs at peak times if 7.5 GW by 2050

# Canadian Ports Supporting the Industry



- US offshore wind market already putting Canadian ports to work
  - Port of Argentia, Port of Sheet Harbour, Woodside, Atlantic Canada Bulk Terminal, Port of Sydney
- Experience to date can be leveraged to support Canadian projects



Port of Argentia



Atlantic Canada Bulk  
Terminal



Port of Sydney



Port of Sheet Harbour



# Marine Renewable Energy Supply Chain Database

Featuring Canadian capabilities in



Tidal energy



Offshore wind



Wave energy



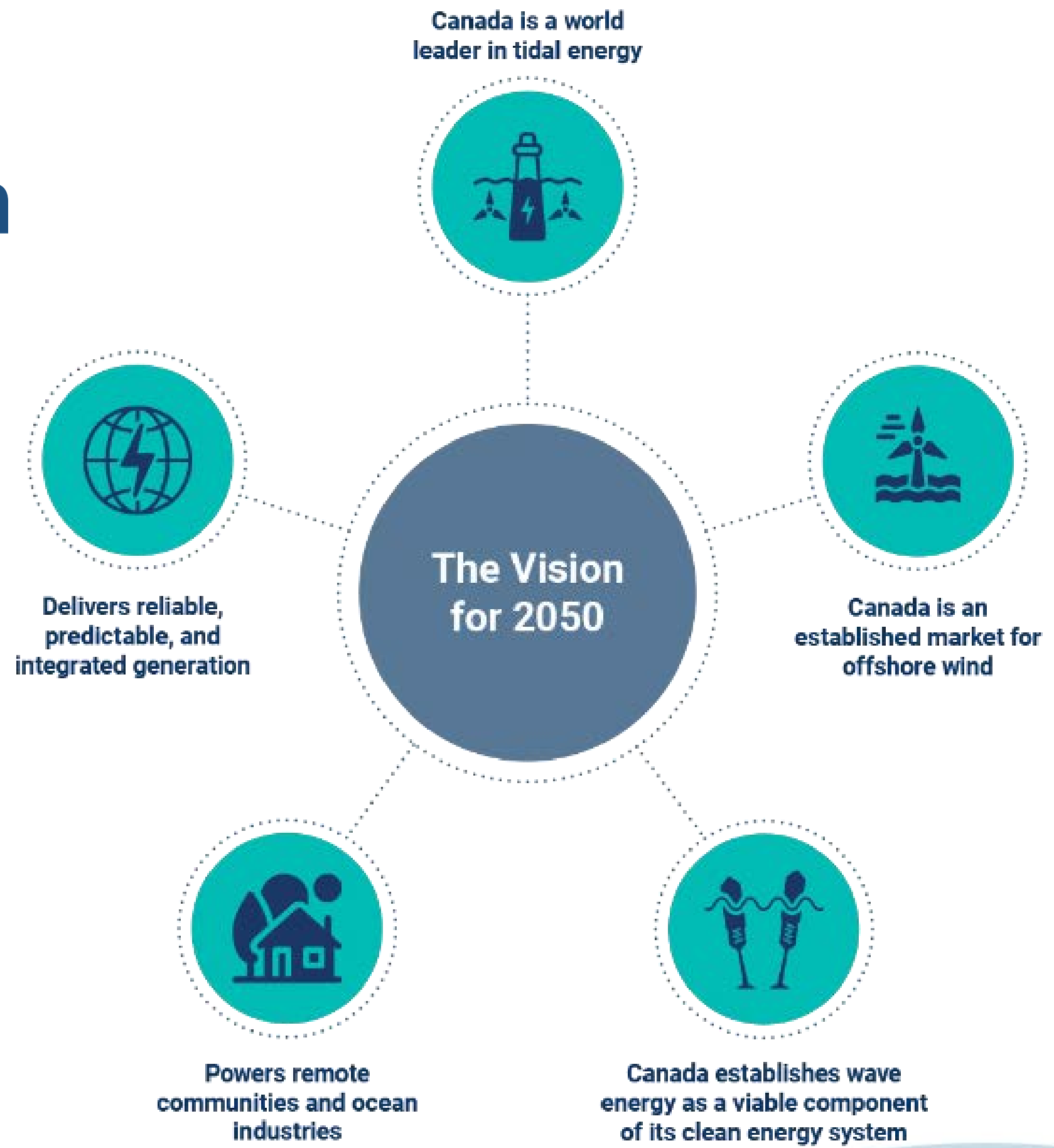
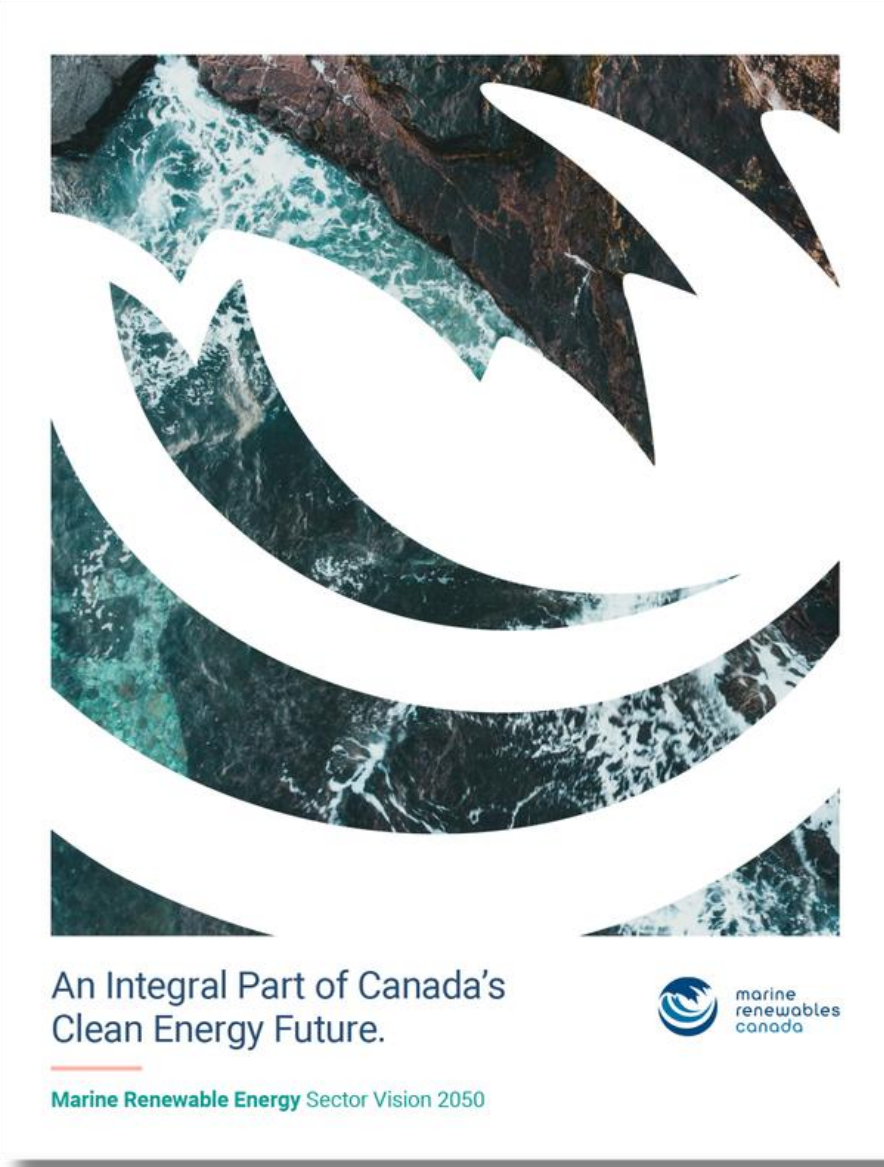
River current energy

Find a partner or sign up for a profile: [www.supplychain.marinerenewables.ca](http://www.supplychain.marinerenewables.ca)

The screenshot shows the homepage of the Supply Chain database. At the top, there is a navigation bar with the text "Supply Chain" and a "Keyword Search" button. Below this is a horizontal menu with icons for various project lifecycle stages: "SHOW ME EVERYTHING", "SITE ASSESSMENT & FEASIBILITY", "PLANNING", "PROJECT DESIGN & DEVELOPMENT", "FABRICATION", "DEPLOYMENT, INSTALLATION, COMMISSIONING", "OPERATIONS & MAINTENANCE", and "DECOMMISSIONING". A "BROWSE BY CAPABILITIES" section lists various roles and services such as "PROJECT DEVELOPER", "MARINE VESSELS", "RESEARCH & EDUCATION", "MANUFACTURING & FABRICATION", "PROFESSIONAL SERVICES", "DEVICE DEVELOPER", "COMPOSITES", "CERTIFICATION", "MACHINERY", "PORT FACILITIES", "OCEAN TECHNOLOGY", "ENGINEERING", "MARINE TRACCS & OPERATIONS", "GEOTECHNICAL", "GOVERNMENT", "SOFTWARE / MODELING", and "ELECTRICAL SYSTEMS". At the bottom, there is a map of Canada and the United States with several location markers and a "NEW! HERE, RESULTS IN A LIST" button.

The screenshot shows a list of search results for the Supply Chain database. Each result card includes a company logo, the company name, and a "VIEW PROFILE" button. The results listed are: "AqualisBraemar LOC", "Arthur J. Gallagher Insurance & Risk Management", "ASL Environmental", "Atlantic Towing", "Atlantica Centre for Energy", "AXYS Technologies", and "Bellemare Heavy Haul & Rigging".

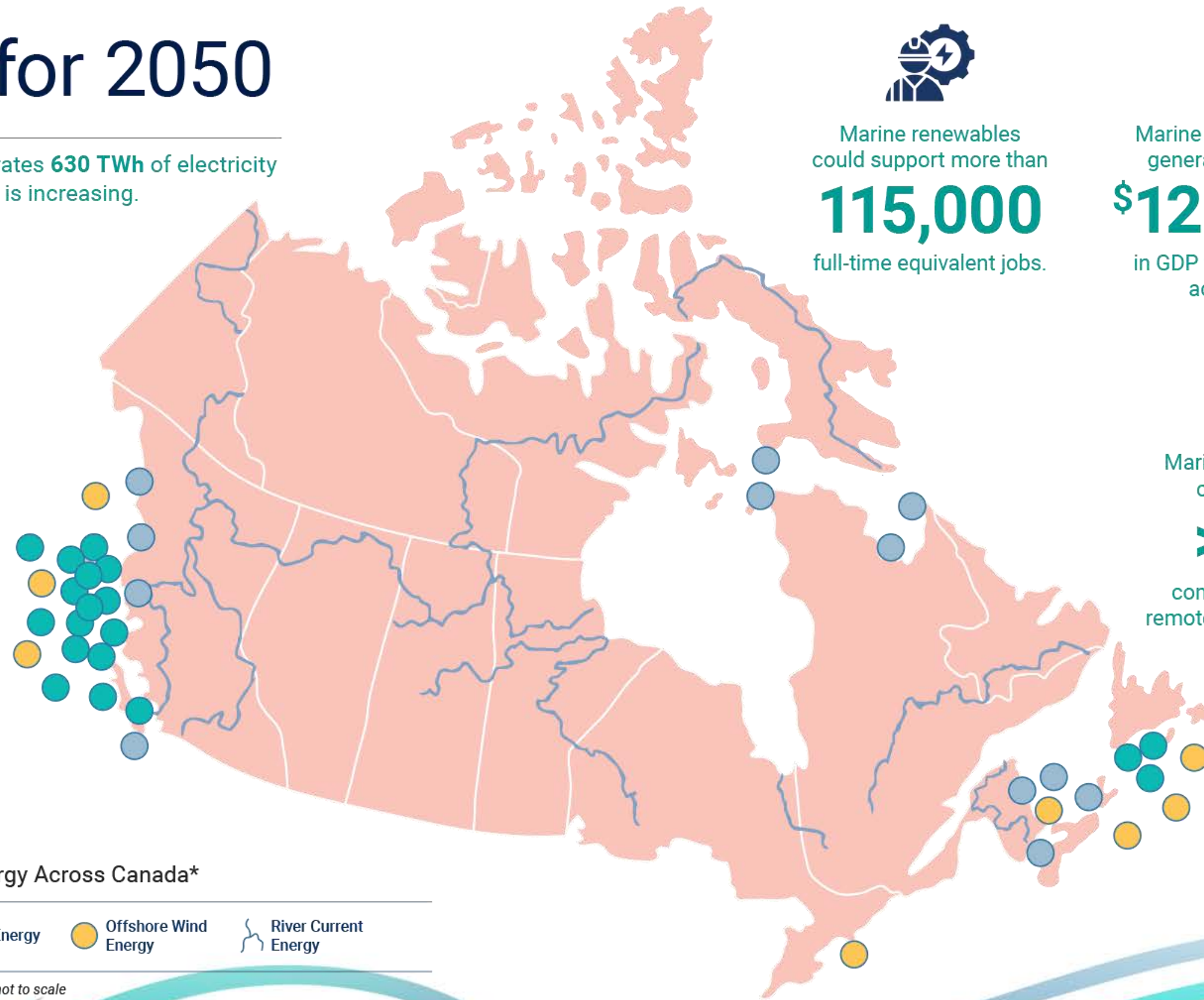
# Marine Renewable Energy Sector Vision 2050



# Marine Renewable Energy Sector Vision 2025

## Vision for 2050

Canada currently generates **630 TWh** of electricity each year, and demand is increasing.



Marine renewables could support more than  
**115,000**  
full-time equivalent jobs.



Marine renewables could generate an estimated  
**\$12 Billion**  
in GDP from construction activity alone.



Marine renewables could power  
**> 50**  
communities and remote industrial sites.

Marine Renewable Energy Across Canada\*

- Wave Energy
- Tidal Energy
- Offshore Wind Energy
- River Current Energy

\* For illustrative purposes only, areas not to scale



# Marine Renewables Canada **2026** Conference & Exhibition:

*Powering Canada's Clean Energy Future*

OTTAWA,  
ONTARIO

THE WESTIN OTTAWA

NOVEMBER  
17-19, 2026

[marinerenewablesconference.ca](http://marinerenewablesconference.ca)



# Thank you

---

Get in touch

[www.marinerenewables.ca](http://www.marinerenewables.ca)

# NIMO Presentation to Canadian Delegation at Wind Europe

Kerry Muldoon  
21 April 2026



**Northern Ireland  
Maritime & Offshore**

[www.nimaritime.com](http://www.nimaritime.com)



**What is NIMO?**

# NIMO Background

- Emerging Cluster (from April 2023)
- Official launch in 2024
- Funded by Invest NI and DfT
- Value is through shared knowledge and learning
- Driving innovation, sustainability & economic growth
- Key principles are inclusivity, transparency, proactive engagement & benefit for all



# NIMO Members

- C. 60 members
- SME Led
- Triple Helix model
- Organic growth
- Government engagement
- Wide range of expertise and specialisms



# NIMO Priorities

**Mission:** To connect and elevate the Maritime and Offshore sectors in Northern Ireland, fostering collaboration, innovation, and sustainable economic growth for members across the sectors and with partners across the globe.

- Want to be recognised as a top cluster internationally
- Commercially focused – driving revenue & growth for NI
- Seen a trusted partner to government & key decision makers



## Realising Opportunities

- Promotion of the local supply chain
- Bringing opportunities to SMEs
- Market entry – NI, UK, EU, etc.
- Voice for the supply chain

## Key Projects

- FSS / Shipbuilding
- ORE / Belfast Harbour
- Consortia building for the future



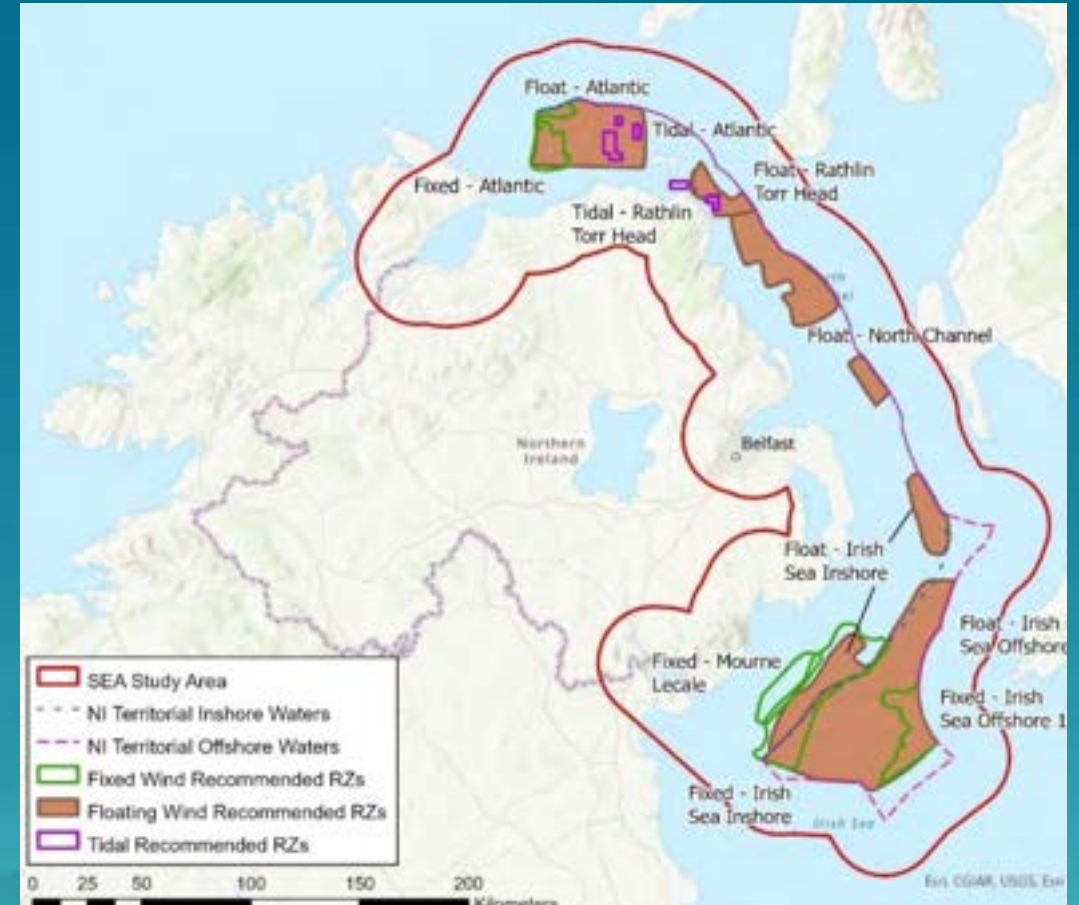
## Enabling Activities

- Member upskilling & knowledge
- Skills & Training
- Inclusive employment pathways

# NI Policy Landscape

# NI Policy Context for ORE

- Draft Offshore Renewable Energy Action Plan published in 2022, updated in 2025 along with SEA & HRA
- Maintains a 'target' of **at least 1GW** from 2030
- Includes maps of 'recommended' and 'refined' areas in NI waters
- Designating environmentally viable marine zones – 'investment ready'
- Underpinning legislation & policy needed for the leasing round to be progressed
- Progressing underpinning legislation & working with The Crown Estate – future leasing round from 2028



# Renewable Energy Support Scheme

- Final Design of the Renewable Electricity Price Guarantee Scheme published Sept 2025, competitive CfD style divided into 3 pots:
  - Pots 1 & 2: Onshore wind & solar (not offshore)
  - Pot 3: Offshore wind
- First auction (pots 1 & 2) scheduled for early 2027
- No date for Offshore Wind (Pot 3)
- Auctions every 1 – 2 years
- Contract term = 15 years, pay as clear rather than pay as bid



# Northern Ireland / Atlantic Canada Opportunity



# Supply Chain Opportunity

- Local content will be a priority for all countries
- Best opportunity is to work in partnership with local company
- Unlock opportunities wider than NI / Canada
- Currently undertaking a study with AIA to understand areas of synergy
- Possible reciprocal visits in 2026/2027 to explore the opportunity



*D1 Logistics Facility, Belfast Harbour*

# Areas of Opportunity



## Naval Architecture & Defence

Shipbuilding  
Subsea Security  
Navantia / H&W making significant investment - FSS



## Wave & Tidal

Significant potential  
Demonstration projects – Strangford & Bay of Fundy  
Relevant expertise



## Innovation

Demand for new solutions  
Academia - QUB, Dalhousie  
Innovative Facilities – COVE, Digital Catapult, AMIC



## Fishing & Aquaculture

Critical industry facing challenges  
Sharing space  
Sea Source  
Offshore is a good case study

# Offshore Wind Opportunities

- Canada & NI on similar(ish) timelines
- Companies with significant global experience in ORE, including HV & grid
- Both electrical islands with need for infrastructure
- Complimentary expertise
- Report exploring opportunities – available soon





# Northern Ireland Maritime & Offshore

## Thank you

Dr Kerry Muldoon  
Executive Director, NIMO

**Call:** +44 7514 779920  
**Email:** [Kerry@nimaritime.com](mailto:Kerry@nimaritime.com)  
**Web:** [nimaritime.com](http://nimaritime.com)

101 Airport Road West,  
Belfast, BT3 9ED,  
Northern Ireland

# Polish Wind Market



**Dominika Taranko**, Managing Director and Vice President,  
Wind Industry Hub Foundation

Warsaw, 22/04/2026

# WIND INDUSTRY HUB (PWEA Group)

- **The Polish Wind Energy Association** (PWEA) is a non-governmental organisation established in 1999.
- PWEA is **the largest wind industry organisation** in Poland.
- ✓ Offshore and onshore wind energy **working groups**
- ✓ Platform for business cooperation
- ✓ **Partner for Parliament and Government** in developing stable legal framework
- ✓ **Annual onshore and offshore wind energy conferences**
- ✓ Wind sector **workshops** for specialists (also with the government)
- ✓ Mapping of the local supply chain in Poland
- ✓ Organization of participation in international fairs and study visits
- ✓ Key sector reports
- Member of **Wind Europe**.
- PWEA has established in 2023 **the Wind Industry Hub Foundation** to support the development of a strong wind industry supply chain and the involvement of domestic production and service companies from wind sector in Polish and European wind investments.



## Schedule of key PWEA events for this year:

[PWEA 2026 Forum](#) – March 2–3, 2026, Sopot

[2<sup>nd</sup> Szczecin Climate Run](#) – March 21, 2026, Szczecin

[PWEA2026 Conference](#) – June 8–10, 2026, Świnoujście

[RE-Source Poland 2026 Conference](#) – September 15–16, 2026, Warsaw

[Offshore Wind Poland 2026](#) – November 17–18, 2026, Warsaw

[22<sup>nd</sup> Wind Energy Forum](#) – December 1, 2026, Warsaw





**POLSKIE STOWARZYSZENIE  
ENERGETYKI WIATROWEJ**

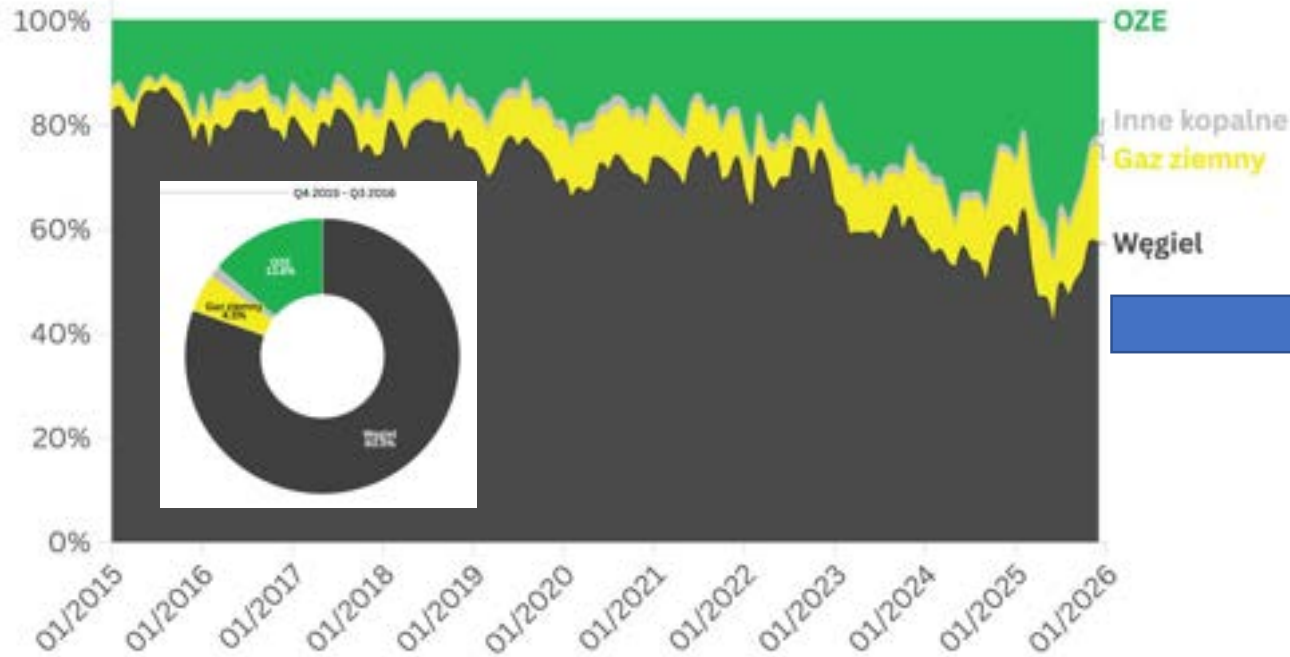
✓ Around 200 members

- POLENERGIA
- equinor
- GE Renewable Energy
- VIATEC engineering
- EDF renewables
- ENERTRAG
- PRIS
- Baltic Power GROUP
- ORLEN
- TUNDRA
- MAG
- edp renováveis
- NORTHLAND POWER
- DMS LEGAL
- Bif
- sevicon
- ENERCON ENERGY FOR THE WORLD
- CJRwind
- arp
- VULCAN TRAINING & CONSULTANCY
- Management
- wpd think energy
- acciona Windpower
- UL
- DOMREL
- aspo
- CHOC
- Vestas
- enern
- VISTAL
- CEZ POLSKA
- windhunter academy
- Qair
- DNB
- MARSH
- Elmont Grupa
- seawind
- OX2
- DOHEMA offshore
- winergy
- dwf
- anteagroup
- NORDEX
- acciona
- RONNE HAVN A/S
- MEGA
- Orsted
- rpGLOBAL
- europa Energy
- LOTOS Petrobaltic
- SCADA
- ignitis renewables
- ERG
- wento
- WKB
- PEXAPARK
- DNV-GL
- p&q
- PGE baltica
- TAURON POLSKA ENERGIA
- Castrol
- TERNA ENERGY
- Deutsche Windtechnik
- novenergia
- OWC
- GP RENEWABLES GROUP
- aldesa Energy
- TELEBRID
- AARSLEFF
- RWE
- VS
- WIND
- electrum
- MMI
- CTP WIND
- enel Green Power
- ABO WIND
- PROKON
- re: respect energy
- WindSpace
- BayWa re. renewable energy
- CLIFFORD CHANCE
- Energa
- SFW ENERGIA
- greenbear
- Centraalna Grupa Energetyczna
- TFKable
- GOTECH
- MARTIFER RENEWABLES
- PBDI
- vortex energy
- Impax
- Enea
- SIEMENS Gamesa RENEWABLE ENERGY
- EUROWIND
- Statkraft
- THE COPVNA MARITIME ACADMY

# POLAND – HERE IS THE MARKET!

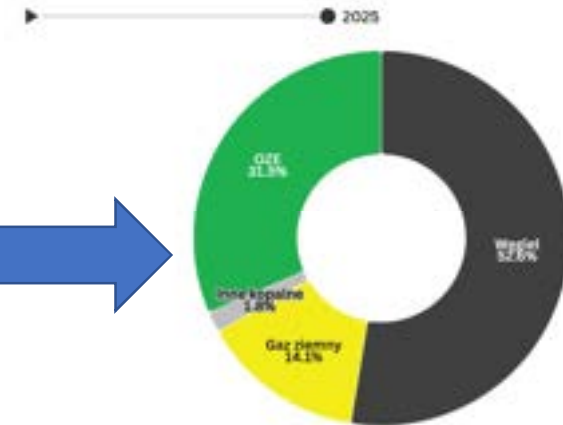


# POLAND – RES DEVELOPMENT IN LAST DECADE



## Struktura generacji energii elektrycznej

(kliknij w przycisk play poniżej, by zobaczyć zmianę w ostatniej dekadzie)



Źródło: opracowanie własne na podstawie danych: MGS, URE, ENTSO E. + Dla wartości brutto generacji z uwzględnieniem autokonsumpcji i PV.  
Węgiel (kamień i brunatny) / Gaz ziemny (gaz ziemny + inne kopalne) / OZE (wiatr, PV, biomasa, biogaz, wodne, hybrydowe, inne OZE)

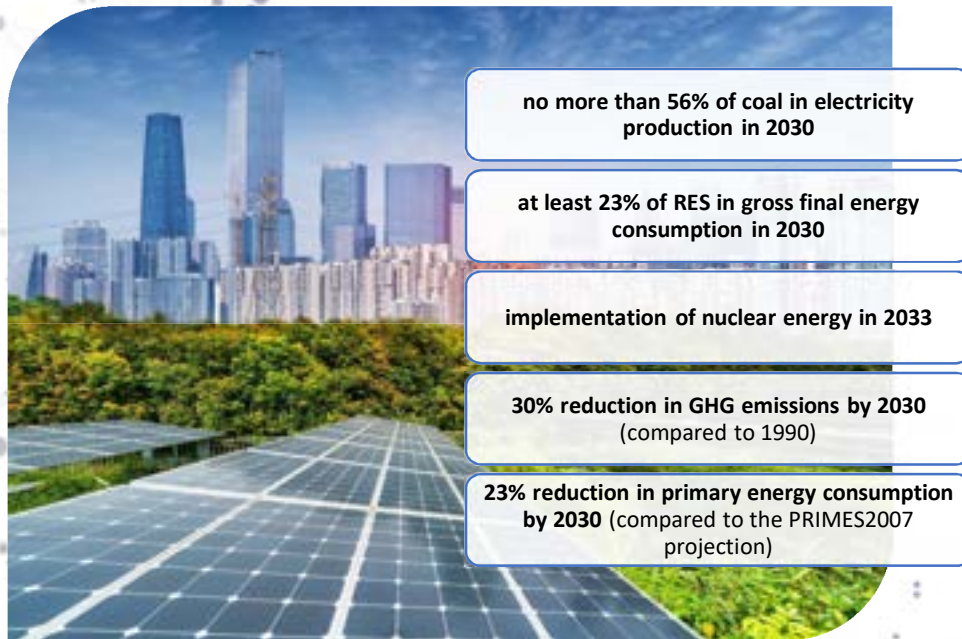
- The development of renewable energy sources has accelerated significantly since 2021 – in 2025, renewable sources already accounted for 31.5% of energy production.
- Coal, which accounted for over 80% of generation in 2015, saw its share fall by 10.4 percentage points over six years (reaching 72.5% in 2021), with the following four years bringing further declines of 19.9 percentage points – to 52.6% in 2025.

Energy  
Transition  
2015-2025



# ENERGY POLICY OF POLAND UNTIL 2040 (EPP2040) AND NATIONAL ENERGY AND CLIMATE PLAN (NECP2024)

On 2nd February 2021 the Council of Ministers have adopted the Energy policy of Poland until 2040 (EPP2040). The document is surpassed by the reality... .



no more than 56% of coal in electricity production in 2030

at least 23% of RES in gross final energy consumption in 2030

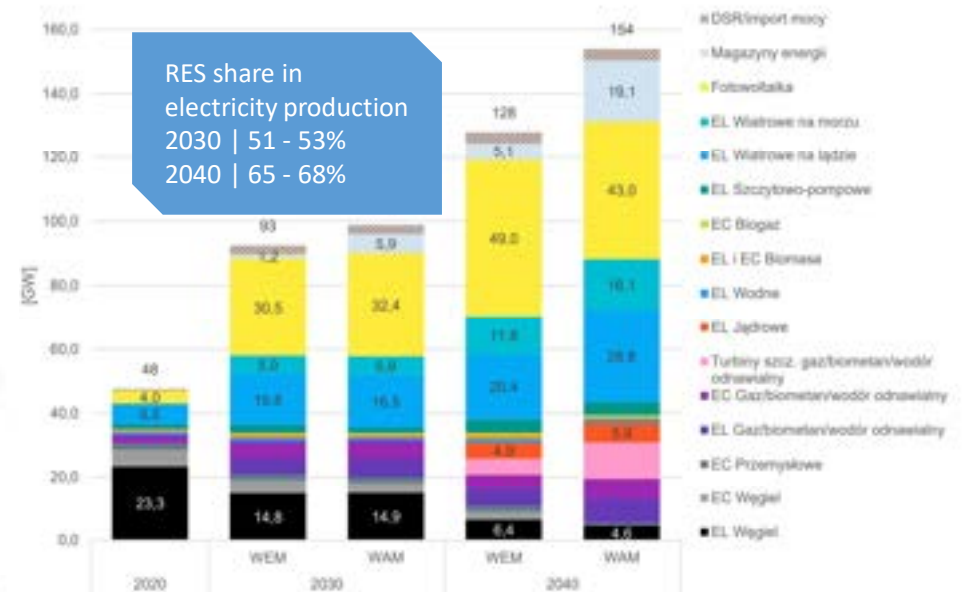
implementation of nuclear energy in 2033

30% reduction in GHG emissions by 2030 (compared to 1990)

23% reduction in primary energy consumption by 2030 (compared to the PRIMES2007 projection)

<https://www.gov.pl/web/climate/energy-policy-of-poland-until-2040-epp2040>

The Ministry of Energy of the Republic of Poland has published in December 2025 a draft of National Energy and Climate Plan for 2030 and 2040. Poland is delayed in submitting the NECP to European Commission.



\* DSR i magazyny energii nie należą do mocy wytwarzanych energii szczytowej, jednakże je traktować jako zasoby elektrczności systemu

<https://www.gov.pl/web/energia/ministerstwo-energii-opublikowalo-projekt-krajowego-planu-w-dziedzinie-energii-i-klimatu-do-2030-i-2040-roku-to-kluczowy-dokument-dla-polskiej-energetyki-i-polskiej-gospodarki>



# PSE (Polish TSO) GRID EXPANSION PLAN

## Energy system ready to operate without coal and gas in a decade!

**Grid operator unveils in December 2025 new strategy** with a horizon extending to 2040: By 2035, Poland's energy system is to be ready for safe operation on a zero-emission generation mix – without coal- or gas-fired power plants. **Conventional units will still be needed to generate electricity during periods of lower renewable output, but they will no longer provide services related to maintaining grid parameters.** Other pillars of the strategy include streamlining the connection of additional renewable installations to the grid, regulating the balancing of electricity purchases and sales by consumers, achieving climate neutrality by 2040, and opening a PSE office in Brussels.

**At the beginning of 2026 r. Polskie Sieci Elektroenergetyczne (PSE) announces national grid expansion plan, according to which TSO is implementing a PLN 66.3 billion grid expansion plan for 2025–2034 (with a 2037 outlook) to enable energy transition, covering 389 projects, over 5,000 km of new 400 kV lines, and 30 new substations. The plan focuses on integrating Baltic Sea offshore wind, nuclear power, and enhancing cross-border connections to meet rising demand.**

Polskie Sieci Elektroenergetyczne (PSE) is Poland's state-owned transmission system operator, responsible for managing the national high-voltage electricity grid to ensure reliable power supply across the country. PSE oversees more than 15,000 km of transmission lines above 220 kV and 109 substations, balancing generation and demand in real-time while integrating renewables and handling cross-border flows with neighbors like Germany and Ukraine. From its national control center, it monitors the grid continuously and publishes live data on generation, consumption, imports/exports via [pse.pl](http://pse.pl), aiding energy market transparency.

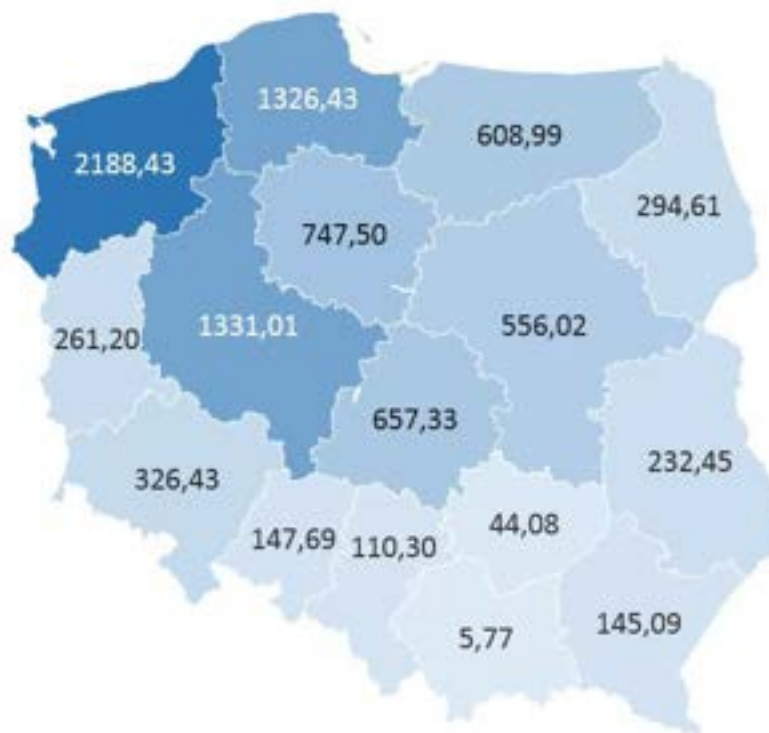


# TOP 10 INVESTORS IN ONSHORE WIND IN POLAND

1. PGE - 797 MW,
2. Orlen (Energia & Orlen together) - 580 MW,
3. RWE Renewables Polska - 541 MW,
4. Grupa Tauron - 538,3 MW,
5. EDP Renewables Polska - 537,8 MW,
6. Polenergia - 492,6 MW,
7. Energix Renewable Energies Ltd. - 300,6 MW
8. Qair Polska - 262,5 MW,
9. Mashav Energia - 256,9 MW,
10. Grupa Engie Polska - 240,9 MW\*

\*data from the end of 2024

Moc wszystkich instalacji [MW]



www.pse.pl



Renewables' installations data base for Poland:  
<https://www.ure.gov.pl/download/9/15842/MapaOZEna30-09-2025nastrURE.xlsx>



# FIRST OFFSHORE AUCTION IN PL - 17-19 TH DEC. 2025

- **Poland has successfully concluded its first-ever competitive auction for offshore wind. This is a major milestone for the country's energy transition and for European offshore wind. The auction, held on 17 December 2025, awarded support to three major projects in the Baltic Sea, with a combined capacity of 3.4 GW. This outcome confirms Poland's commitment to building a robust offshore wind market and sends a strong investment signal to the industry and financial institutions across Europe.**
- The auction used a two-sided Contracts for Difference (CfD) scheme, providing investors with long-term price stability for 25 years. Winning bids ranged from approximately €113–€117/MWh, all below the ministerial price caps set earlier this year.
- The projects are expected to deliver their first electricity to the grid by December 2032, with total estimated generation over the support period reaching 330 TWh.

The auction was won by the following projects:

- Orlen, Orlen Neptun VIII Sp. z o.o. – **Baltic East** Offshore Wind Farm, with an installed electrical capacity of 900 MW and a price of PLN 476.88/MWh,
- the PGE project, **Baltica 9** Sp. z o.o. Wind Farm – MFW Baltica 9, with an installed electrical capacity of 975 MW at a price of PLN 489 per MWh;
- and the project by Polenergia and Equinor MFW Bałtyk I S.A. – MFW **Bałtyk I**, with an installed electrical capacity of 1560 MW at a price of PLN 492.32 per MWh.

The total capacity contracted in the auction is 3,435 MW (3.435 GW).

## Polish Wave I projects

Source: Report „Offshore wind vessel availability until 2030 Baltic Sea and Polish perspective”, H-Blix, PWEA, 2022

No.	Company	Project	Capacity [MW]	COO	Assumed turbine size [MW]
1	Polenergia / Equinor	Baltyk II	720	2027	14+
2	Polenergia / Equinor	Baltyk III	720	2027	14+
3	PGE / Ørsted	Baltica 2	1498	2027	14+
4	PGE / Ørsted	Baltica 3	1045	2030	14+
5	RWE	FEW Baltic II	350	2032	14+
6	PKN Orlen / NPI	Baltic Power	1140	2026	14+
7	Ocean Winds	B&C Wind	390	2028	14+
<b>Total for wave I</b>			<b>5 933</b>		

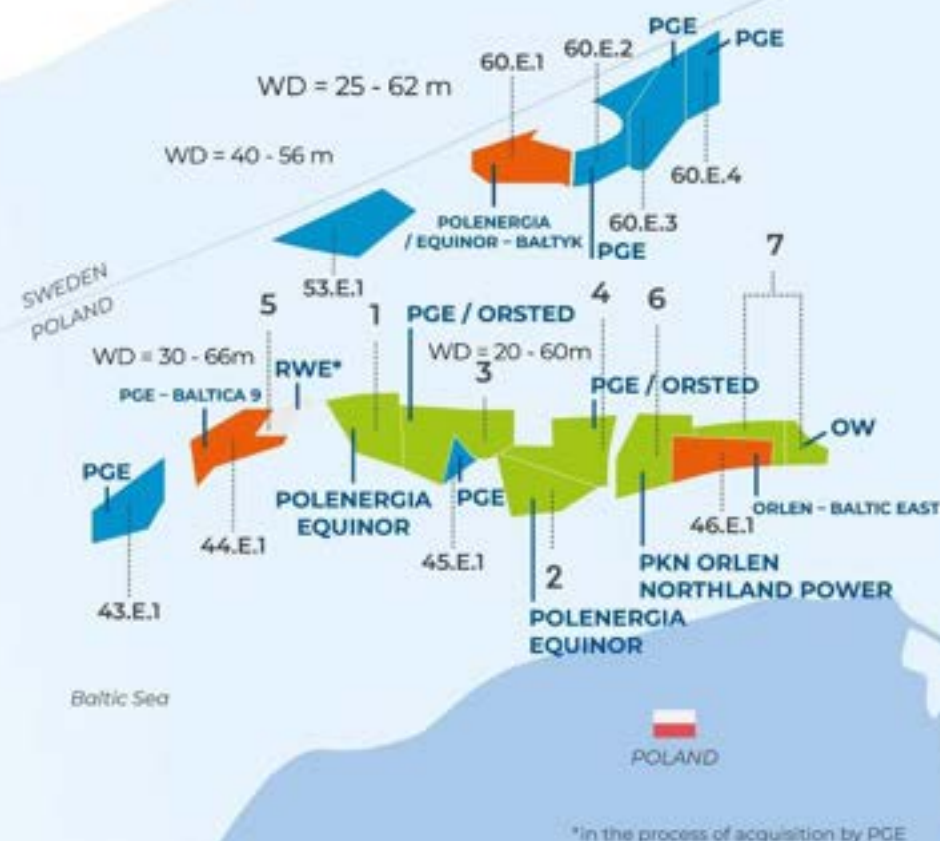
- Wave I projects
- Wave II projects – Auction in 2025 (winning projects)
- Wave II projects – Auctions in 2027, 2029, 2031

## Polish Wave II projects and designated areas

Source: Report „Offshore wind vessel availability until 2030 Baltic Sea and Polish perspective”, H-Blix, PWEA, 2022

Project from Wave II with seabed permit 2 Projects without CFDs – Wave II; auction in 2025					
No.	Company	Project	Capacity [MW]	COO	Assumed turbine size [MW]
1	Orlen	Baltic East	900	2032	18+
2	PGE	Baltica 9	975	2032	18+
3	Polenergia / Equinor	Baltyk I	1560	2032	18+
<b>Total</b>			<b>3 435</b>		

Next auctions are planned for: 2027 (4GW), 2029 (2GW), 2031 (2GW)

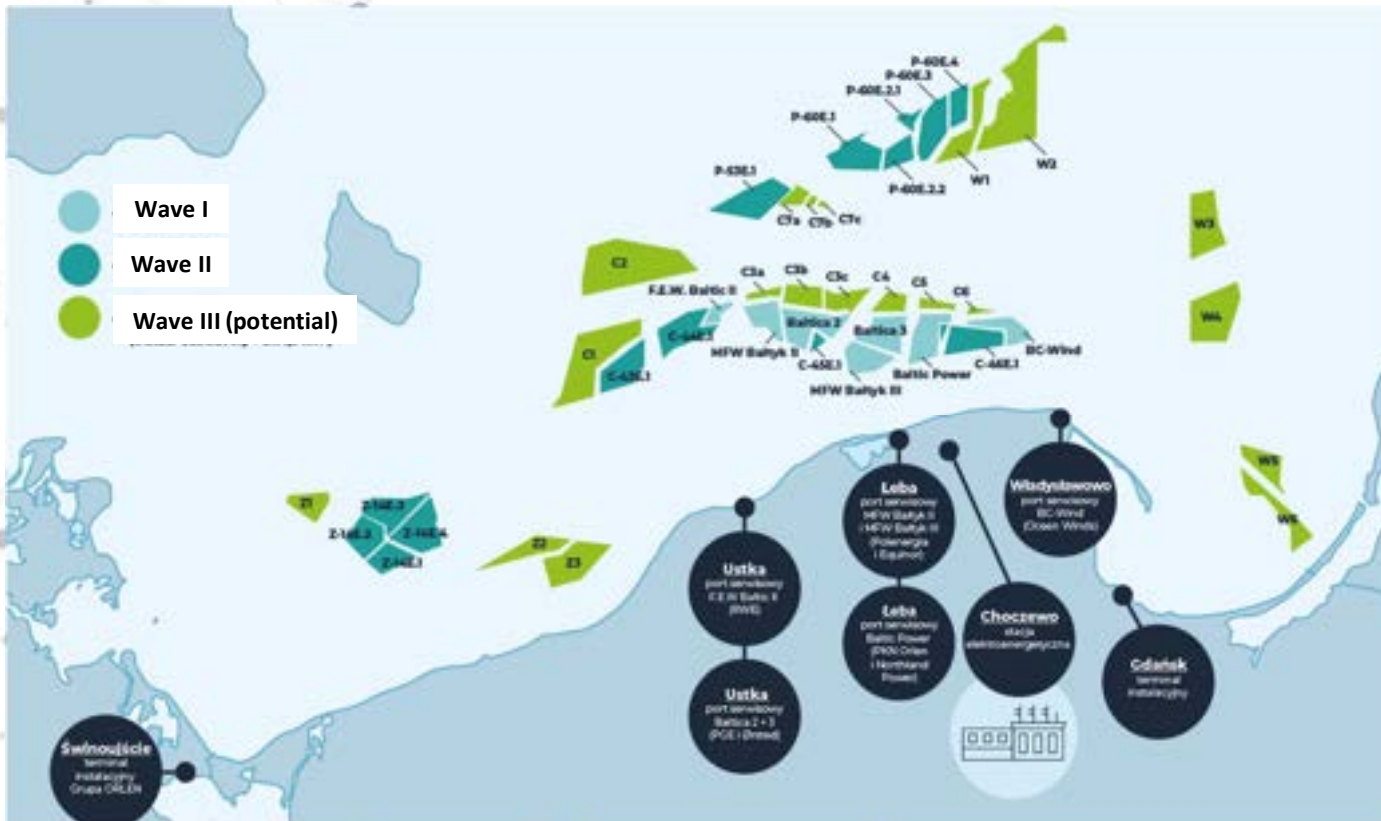


# RWE SELLS PROJECT FROM THE FIRST WAVE OF PROJECTS IN POLAND

- RWE is selling the F.E.W. Baltic II offshore wind farm project with a capacity of 350 MW in the Baltic Sea to Polska Grupa Energetyczna (PGE). The transaction, involving RWE Offshore Wind Poland, will enable PGE to develop the project located north of Ustka, which will accelerate the implementation of PGE's objectives in the field of offshore wind energy (OWE). The agreement is expected to be finalised in the first quarter of 2026.
- 
- Project: F.E.W. Baltic II (350 MW), approximately 50 km from the shore, north of Ustka.
- Seller: RWE (through RWE Offshore Wind Poland).
- Buyer: PGE.
- Additionally: RWE has also transferred to PGE the environmental decision for the neighbouring area (44. E. 1), which will streamline the work.
- Objective: To accelerate the development of OWF in Poland and leverage synergies with existing PGE projects (such as Baltica 9).
- When: The transaction is expected to close in Q1 2026

# OFFSHORE WIND IN POLAND - AREAS

Wave I – 5,9 GW till 2030; Wave II – 12 GW till 2040 (18 GW in total in 2040)



PWEA's report of offshore wind potential identified 20 new areas with a total area of 2,171.5 km<sup>2</sup>, including 18 in the Polish Exclusive Economic Zone and 2 within the territorial sea, with the potential to be used for offshore wind development. These areas could contribute 17.7 GW, so total potential would be 33 GW. Works started at the Ministry of Infrastructure.

# OFFSHORE WIND INFRASTRUCTURE DEVELOPMENT IN POLAND



<https://www.windindustry.pl/wp-content/uploads/2025/04/Flagowe-inwestycje-2025ang-1.pdf>

**WIND INDUSTRY HUB**

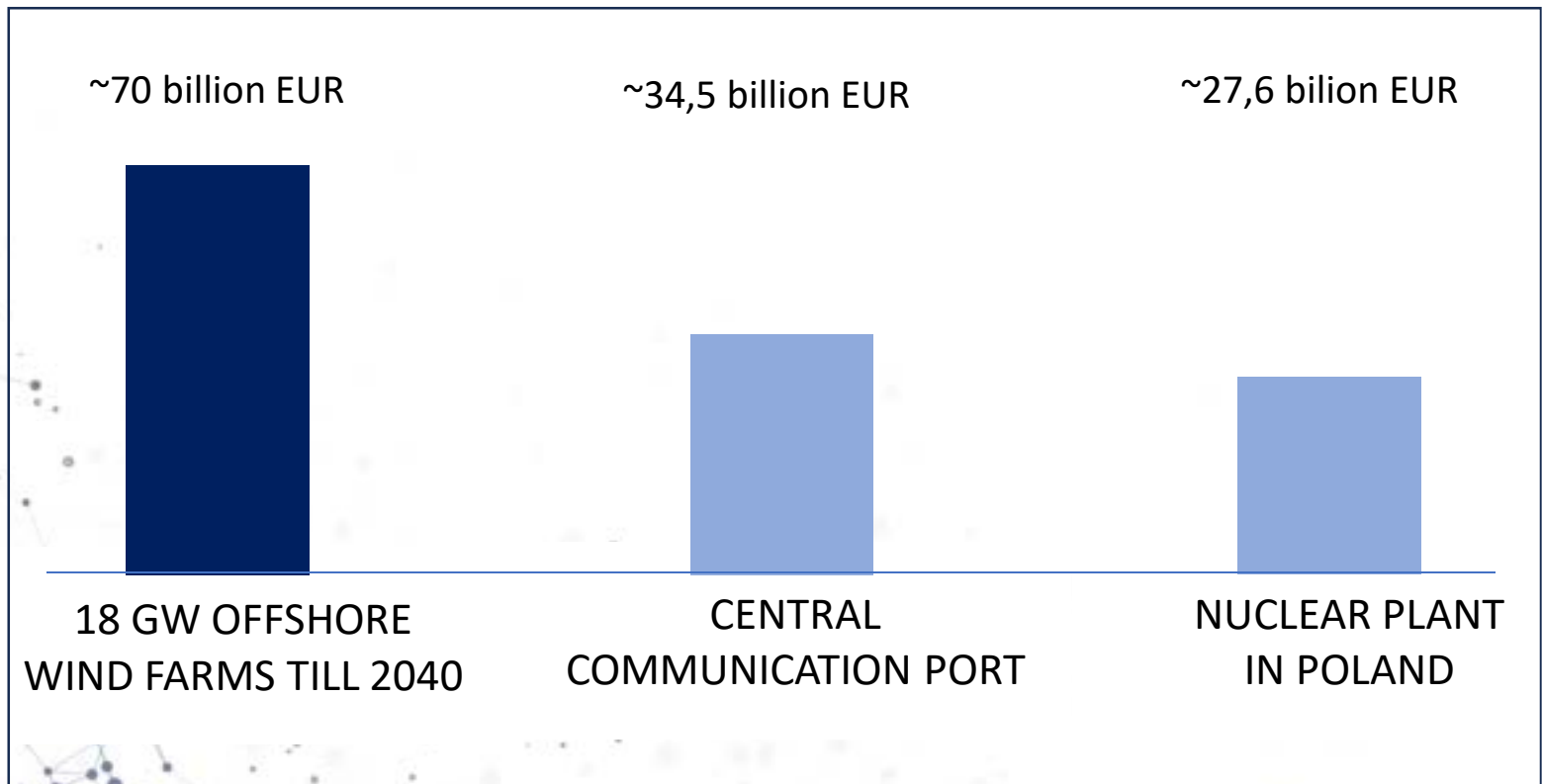
## POLISH INDUSTRIAL HUB OF THE WIND SECTOR

Flagship investments of the offshore wind supply chain

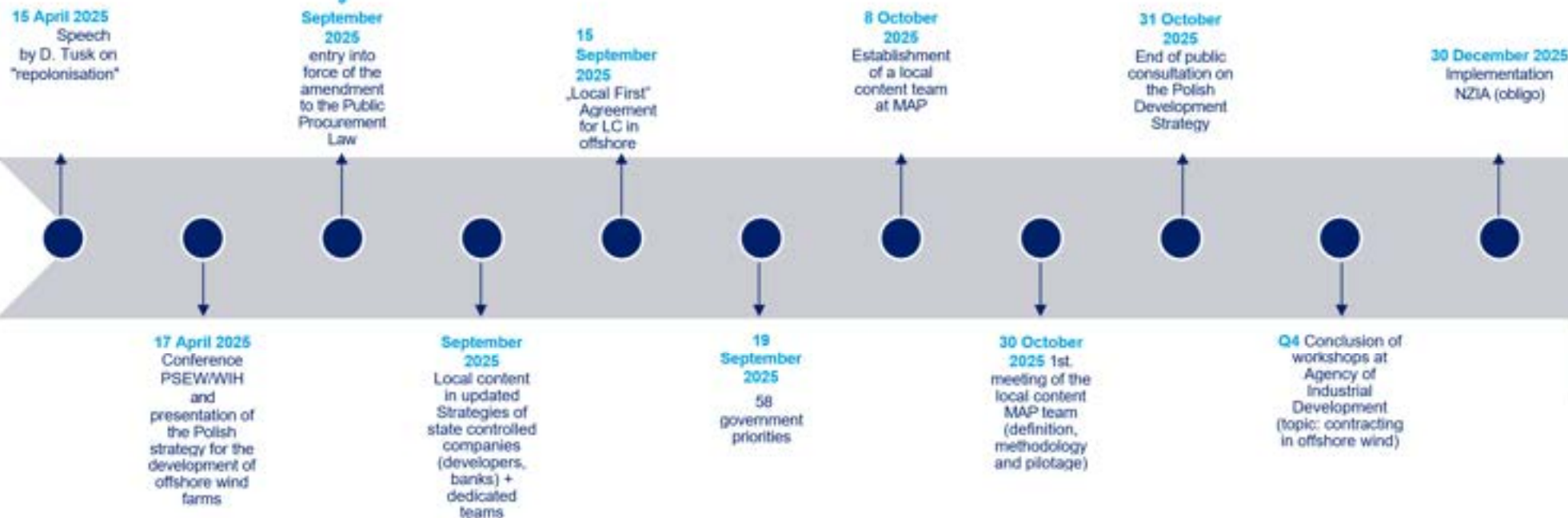
**2025**

# OFFSHORE WIND REPRESENTS HUGE INVESTMENT AND REVENUE POTENTIAL FOR COMPANIES

CONSTRUCTION OF OFFSHORE WIND FARMS IN POLAND IS THE LARGEST INVESTMENT PROGRAM IN DECADES, ALLOWING ENTREPRENEURS TO REALIZE REVENUES OF UP TO 4,6 BILLION EUR A YEAR AVERAGE



# LOCAL CONTENT – FROM IDEA TO GOVERNMENTAL STRATEGY



# OUR DELIVERABLES OF SECTORAL STRATEGY AND KEY STAKEHOLDERS

## 10 STRATEGIC PACKAGES

Program package. Adoption of the Polish Strategy for the Development of the Offshore Wind Farm Industry.

Market package. Adoption of an updated PEP2050 taking into account the overall target of 33 GW for offshore wind farms.

European package. The assumptions of the Strategy as a contribution to the Polish policy at EU level.

Production financing package. Availability of guarantees for the implementation of the largest contracts in OWF projects in Poland and Europe.

Innovation Package. The strategy envisages the establishment of a central offshore wind laboratory in Poland.

Education and work package. Adoption and implementation of the Wind Energy Competence Development Program.

Investment financing package. Announcing grant or loan programs.

Safety package. A set of guidelines for the safety and physical security of key production nodes.

Priority Implementation Programs. The strategy will include the launch of Priority Implementation Programmes.

Institutional package. Executive Board chaired by the Offshore Plenipotentiary.

## KEY STAKEHOLDERS WE MET

- Representatives of the European Commission and Parliament
- Ministry of Climate and Environment
- Ministry of Finance
- Ministry of Energy
- Ministry of Development and Technology
- Ministry of Infrastructure
- Ministry of Funds and Regional Policy
- Representatives of the Sejm and Senate
- Polish Development Fund (PFR)
- Industrial Development Agency (ARP)
- Polish Investment and Trade Agency
- Polish Agency for Enterprise Development (PARP)
- Export Credit Insurance Corporation (KUKI)
- Local authorities



# KEY RECOMMENDATIONS

10 STRATEGIC PACKAGES

IMPLEMENTATION PRIORITY PROGRAMS



Modern services for planning, designing and monitoring



Comprehensive supply chain for offshore wind turbines



New European OWF installation company based in Poland with national fleet



Installation of foundations for offshore wind farms



Land and sea cables for offshore wind farms



National project for a fully equipped offshore substation (OSS)



Security



Innovative operation and maintenance services

# UC84 Act – accelerating grid connections for RES

**The Energy Law amendment (project UC84) has completed the legislative process and it was signed by the President in early April 2026. Published in the Journal of Laws on April 15, 2026, most provisions became legally binding in late April 2026. This act is of key importance for the development of new RES capacities.**

The 2026 Polish Energy Law amendment (UC84) reforms grid connections to optimize infrastructure and accelerate renewables by:

- implementing stricter, 12-month validity for connection terms,
- expanded cable pooling,
- and mandatory financial security deposits.

Key changes also include:

- designated "no-connection" zones,
- mandatory project milestones,
- and a pilot program for capacity auctions.



# PWEA ANNUAL CONFERENCE – -8-10 JUNE 2026, SWINOUJSCIE

- Over 20 editions
- Approx. 3000 participants
- Around 200 speakers
- More than 100 exhibitors
- 3 days of:
  - panel discussions
  - workshops
  - networking
  - B2B meetings
  - study tours
  - sport activities
  - evening activities



CHECK NEWS AND PUBLICATIONS ON - [WWW.WINDINDUSTRY.PL](http://WWW.WINDINDUSTRY.PL)



**Janusz Gajowiecki**  
President



**Dominika Taranko**  
Vice President  
Managing Director

mob. +48 503 140 467  
e-mail: [d.taranko@windindustry.pl](mailto:d.taranko@windindustry.pl)



**Piotr Czopek**  
Vice President

mob. +48 505 268 209  
e-mail: [p.czopek@windindustry.pl](mailto:p.czopek@windindustry.pl)



**Oliwia Mróz-Malik, PhD**  
Vice President

mob. +48 690 599 316  
e-mail: [o.mroz-malik@windindustry.pl](mailto:o.mroz-malik@windindustry.pl)



**Michał Forycki**  
Junior specialist

mob. +48 572 352 141  
e-mail: [m.forycki@windindustry.pl](mailto:m.forycki@windindustry.pl)



**Wind Industry Hub Foundation**  
al. Wojska Polskiego 187/4-5, 71-325 Szczecin  
NIP: 852-27-02-610

**Office address in Warsaw:**  
ul. Bagno 2, pok. 212 (7 piętro), 00-112  
Warszawa

e-mail: [biuro@windindustry.pl](mailto:biuro@windindustry.pl)



# Ireland-Canada Offshore Wind Supply Chain Opportunities

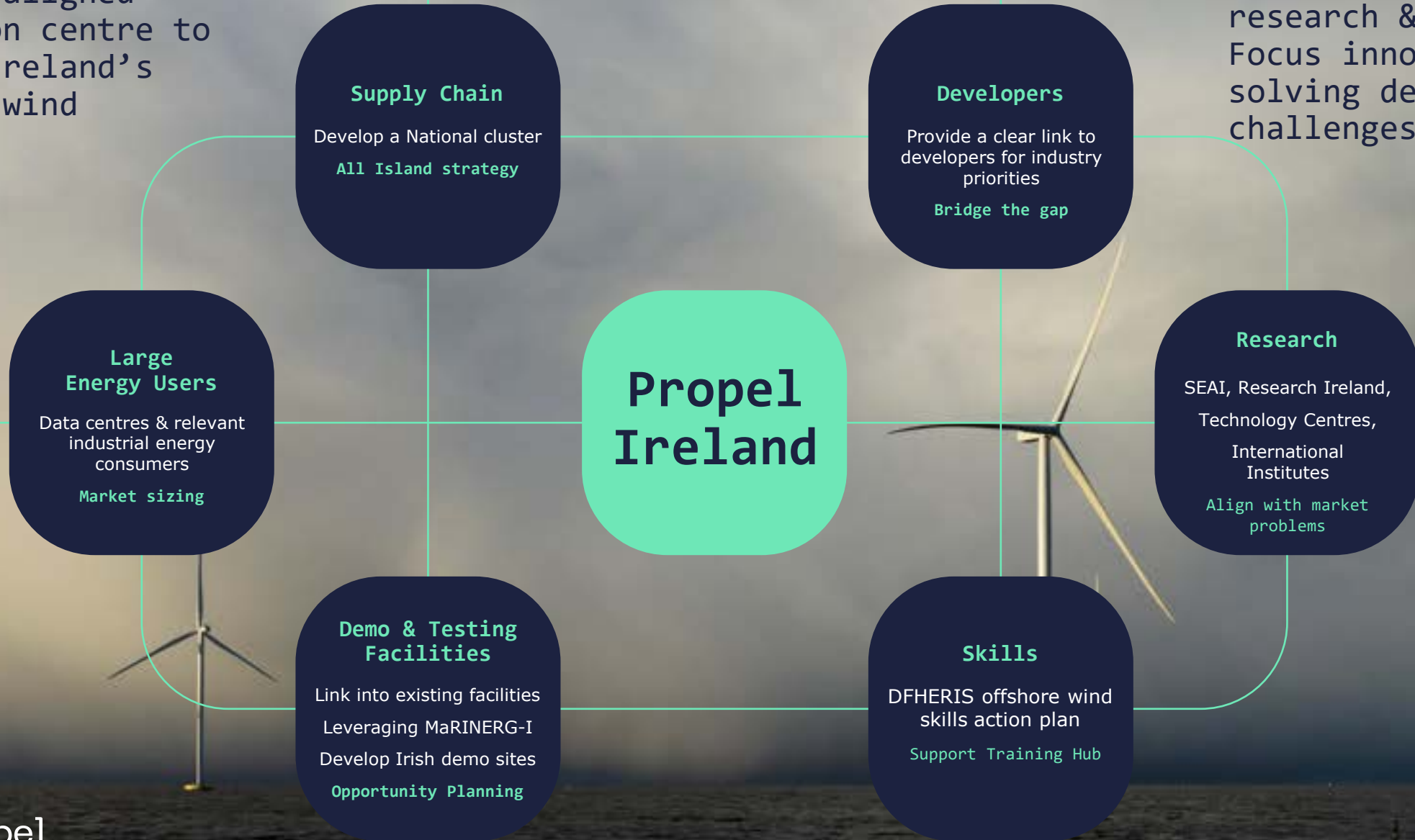
Wind Europe Madrid 2026


21st April 2026  
Georgina Foley



A coordinated, industry-aligned innovation centre to support Ireland's offshore wind ambition

Connect supply chain, developers, ports, research & government  
Focus innovation on solving delivery challenges





# Two Atlantic nations, shared challenges, complementary strengths

---

- Deep water Atlantic conditions
- Emerging offshore wind markets
- Strong port and marine heritage
- Focus on innovation and resilient supply chains

Opportunity: build a transatlantic offshore wind partnership—not from theory, but from delivery experience

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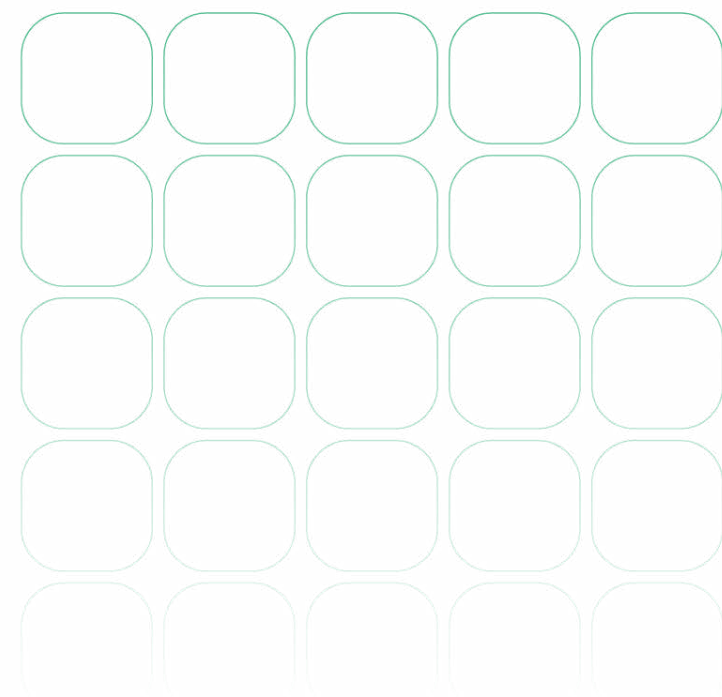
# What Ireland Brings to the Table

## **Innovative offshore wind supply-chain capability**

Ireland's supply chain already supports offshore wind through:

- Resource & energy assessment
- Marine surveying & metocean data
- Environmental & nature-inclusive design
- Construction, electrical & instrumentation services
- O&M and asset-life extension
- Floating offshore wind innovation

## **Delivery in Atlantic conditions**



# Early-Stage development & bankability helping projects get off the ground faster

## Irish capability

- Advanced resource & energy assessment
- Yield analysis and bankability support
- Early project definition in challenging environments

## Canadian alignment

- System-level modelling and optimisation
- Hybrid energy and grid-aware planning

## Impact

- Faster site selection
- Lower development risk
- Stronger investor confidence



# Marine Surveying & Ocean Data

## Atlantic-tested offshore intelligence

### Ireland

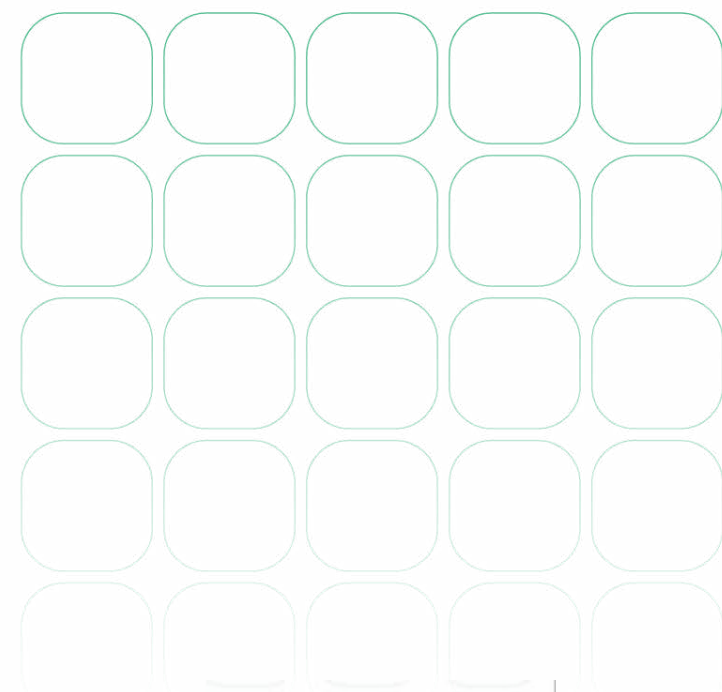
- Geophysical & metocean surveys: acquisition → delivery
- Real-time marine monitoring
- Uncrewed Surface Vessels (USVs) to lower cost, risk, emissions

### Canada

- World-class oceanography & measurement systems
- Acoustics, and long-duration monitoring expertise

### Together

Best-in-class site characterisation for floating offshore wind



# Environmental performance by design—not by retrofit

## Ireland

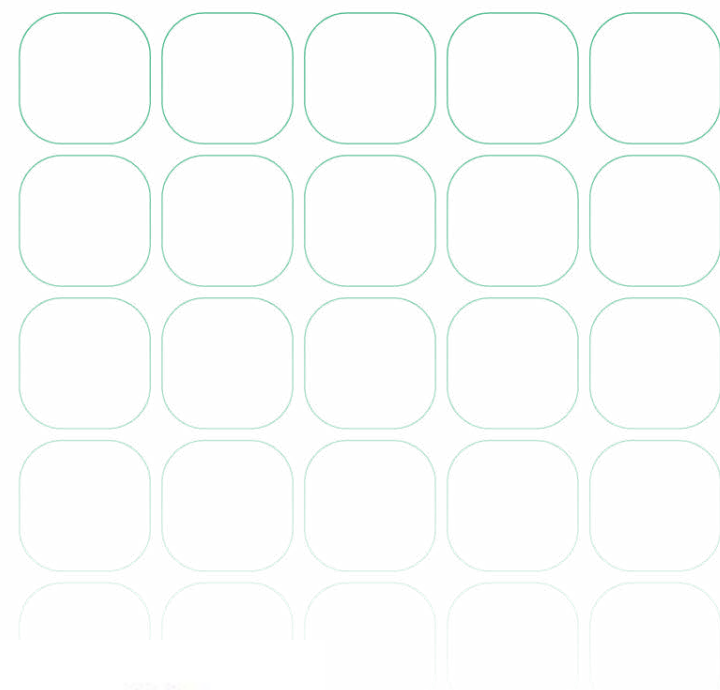
- Nature-Inclusive Design (NID) methodologies
- Digital ecological monitoring tools
- Lifecycle-based environmental planning

## Canadian strength

- Marine environmental science
- Underwater acoustics & impact assessment
- Regulatory-grade monitoring

## Outcome

- Strong consenting pathways
- Trusted stakeholder engagement
- Better outcomes for ecosystems and communities



# Ports, Construction & Marine Operations - Turning ports into offshore wind growth hubs

## Ireland

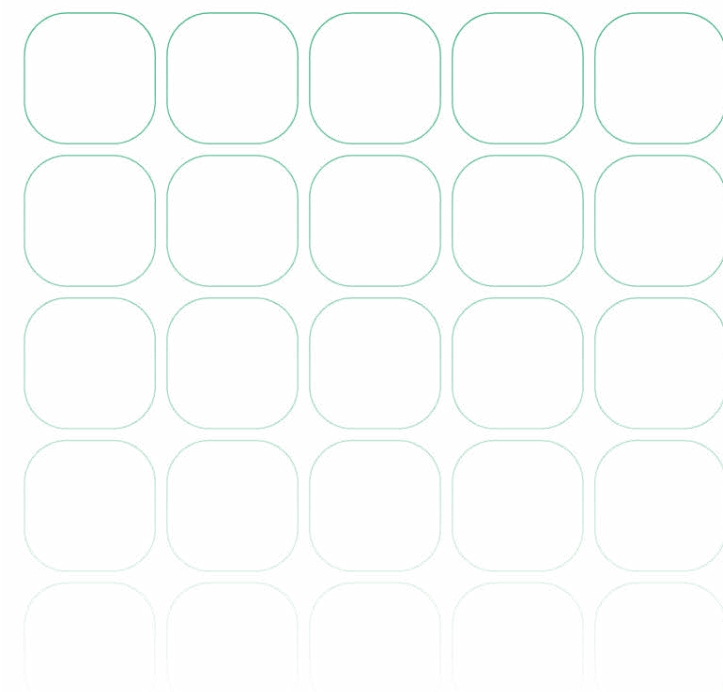
- Offshore construction delivery experience
- Engineering, project management, procurement
- Electrical & instrumentation services

## Canada

- Major port capacity and logistics expertise
- Marshalling, heavy lift, marine services
- Strategic Atlantic locations

## Value

- Knowledge transfer for first-of-a-kind projects
- Faster port readiness
- Reduced execution risk



# Operations, maintenance & Asset Life

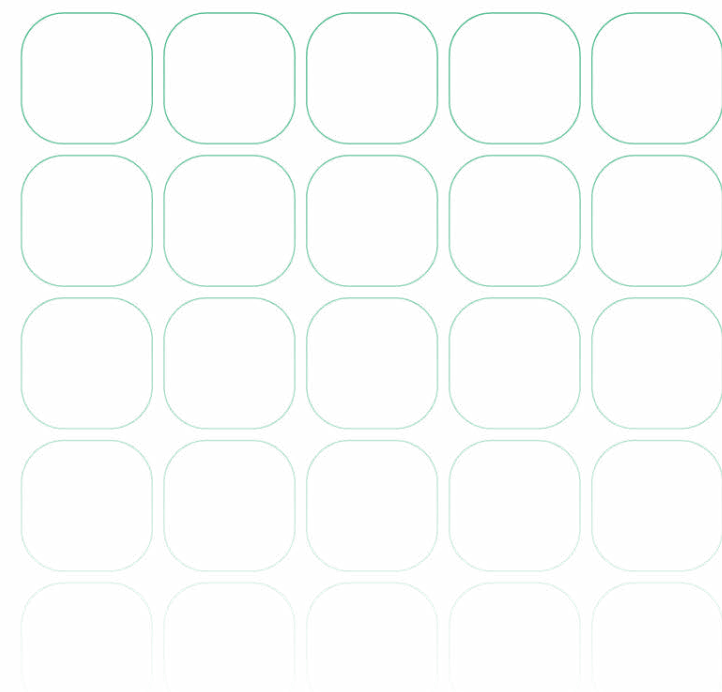
Designing for long-term performance from day one

## Irish capability

- Turbine control module inspection & repair
- Power-conversion system refurbishment
- Asset life extension & downtime reduction

## Relevance to Canada

- Harsh Atlantic operating conditions
- Long asset lifetimes
- Early focus on O&M cost control



# Floating Offshore Wind: The Shared Opportunity where the alignment is strongest

## Common realities

- Deep waters
- Harsh Atlantic metocean
- Early-stage floating wind markets

## Ireland

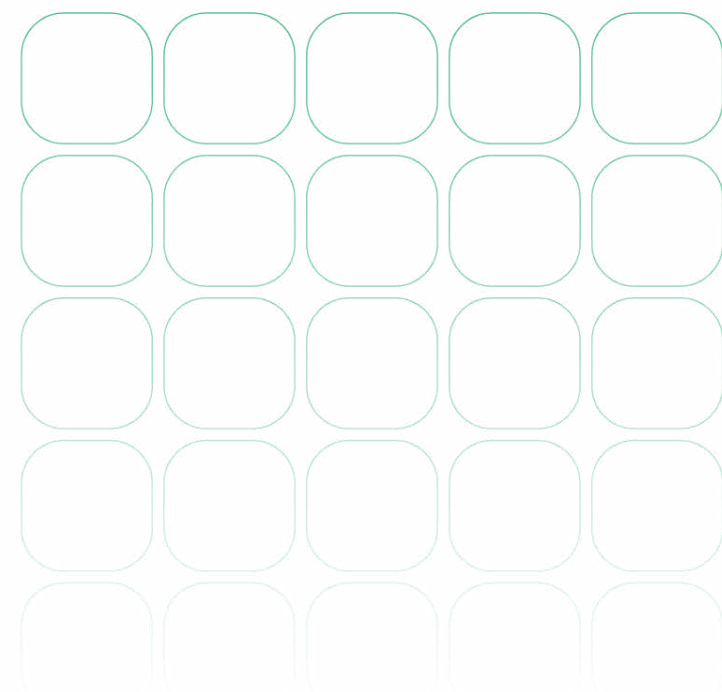
- Innovation in monitoring, installation, and O&M
- Supply-chain coordination through Propel Ireland

## Canada

- Fabrication, engineering, port expansion
- Large-scale future pipeline

## Together

Faster floating wind industrialisation



Subsea  
Micropiles



TFI Marine

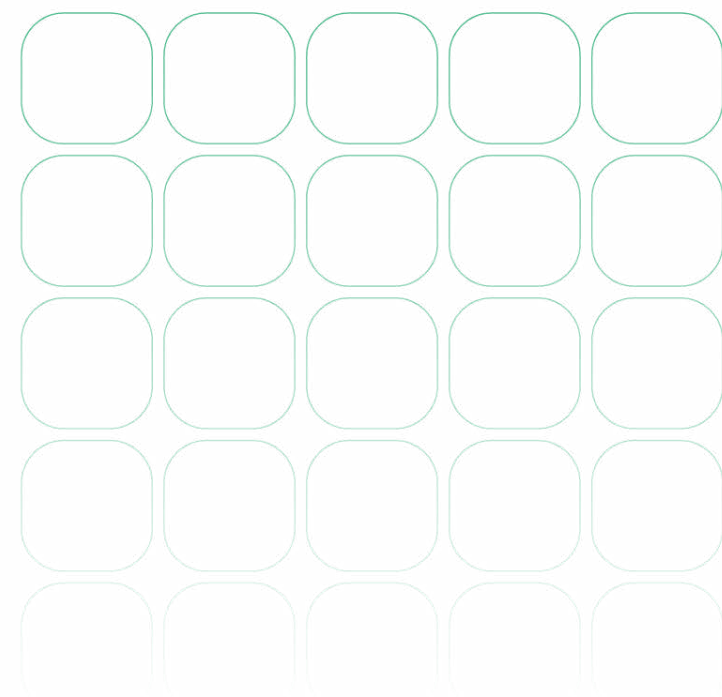
# Propel Ireland: a Platform for collaboration, not just conversation

## Propel Ireland enables:

- Joint innovation & demonstration projects
- SME-to-developer collaboration
- Technology validation & de-risking
- Alignment with real project pipelines

## For Canada:

- A structured way to partner with proven offshore wind innovators

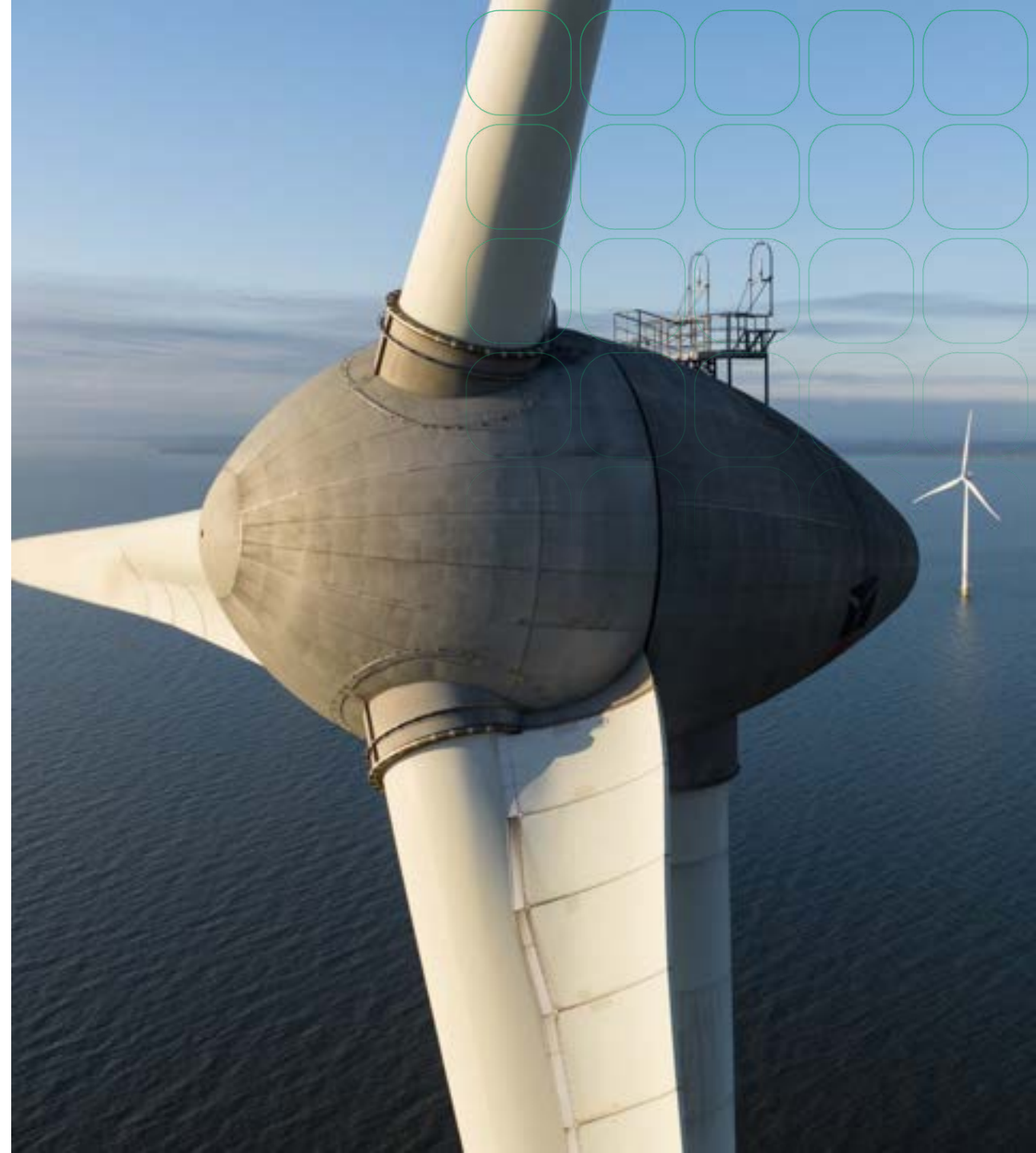


# What Collaboration Could Look Like

## Practical next steps

- Joint Ireland–Canada innovation calls
- Floating wind system pilots
- Survey & monitoring co-development
- Port readiness and O&M knowledge exchange
- Skills and workforce collaboration

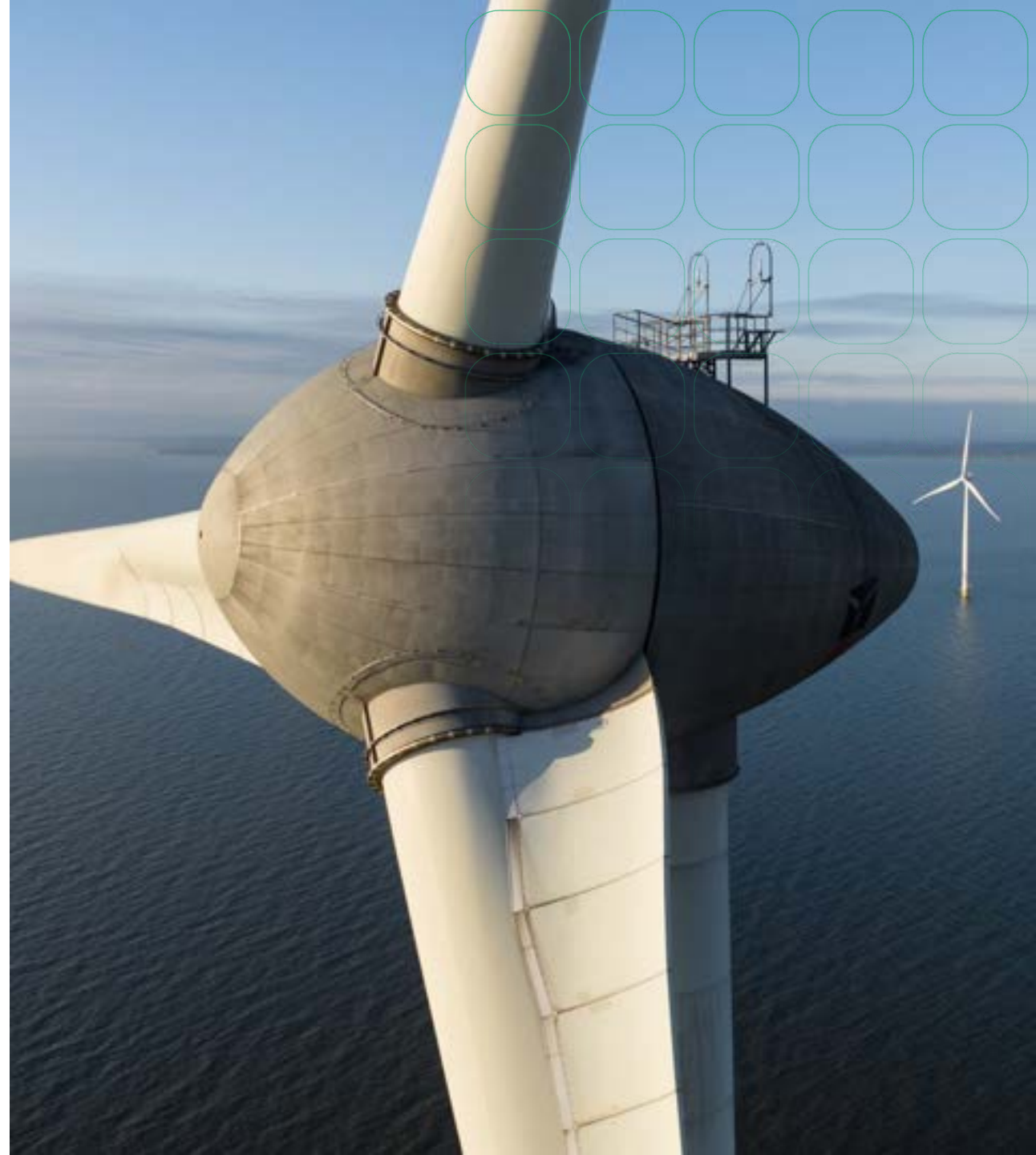
**Focus:** co-development, not one-way supply



# Why This Matters

## Delivering more than megawatts

- Faster project delivery
- Lower risk and cost
- Stronger environmental outcomes
- Local jobs and industrial capability
- Long-term Atlantic energy resilience



# A shared Atlantic opportunity

## Ireland brings:

- Innovation, Offshore wind services and Atlantic delivery experience

## Canada brings:

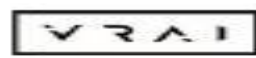
- Scale, Industrial capacity, Long-term opportunity

Together, we can build a strong, resilient transatlantic offshore wind supply chain.



[gfoley@enterprise-ireland.com](mailto:gfoley@enterprise-ireland.com)





# SCOTLAND YOUR OFFSHORE WIND PARTNER



Matthew Clark, Inward Investment Specialist  
SCOTTISH DEVELOPMENT INTERNATIONAL

**#SCOTLANDISNOW**



# WHO ARE SDI?

We are the international arm of **Scottish Enterprise** – **Scotland's economic development agency**. We aim to:

- ✓ **Grow Scotland's exports**
  - ✓ **Increase inward investment**
- Our mission is to help international companies invest, grow and succeed in Scotland.
  - We provide tailored support across the full inward investment journey – from initial interest to long-term growth.
  - We connect you to the right people, the right places, and the right funding opportunities.



**#SCOTLANDISNOW**

A photograph of several offshore wind turbines in the ocean. The turbines are white with yellow bases and are spaced out across the water. The sky is blue and the water is dark blue with some whitecaps.

SCOTLAND'S  
**OFFSHORE WIND**  
OPPORTUNITY

**#SCOTLANDISNOW**



**SCOTLAND**

A MARKET OF SCALE

# SCOTTISH OFFSHORE WIND IN NUMBERS



## DID YOU KNOW?

Scotland is a global **TOP TEN** offshore wind market

**40GW+**

offshore wind potential project pipeline in Scottish waters plus over **4GW** already operational



**30GW**

of ScotWind projects and **5.4GW** of INTOG projects



**24GW+**

planned floating wind projects; one of the world's largest markets



**UP TO £500M**

Scottish Government investment commitment over 5 years to strengthen and expand Scotland's offshore wind ports and supply chain



**£1.5BN PER PROJECT**

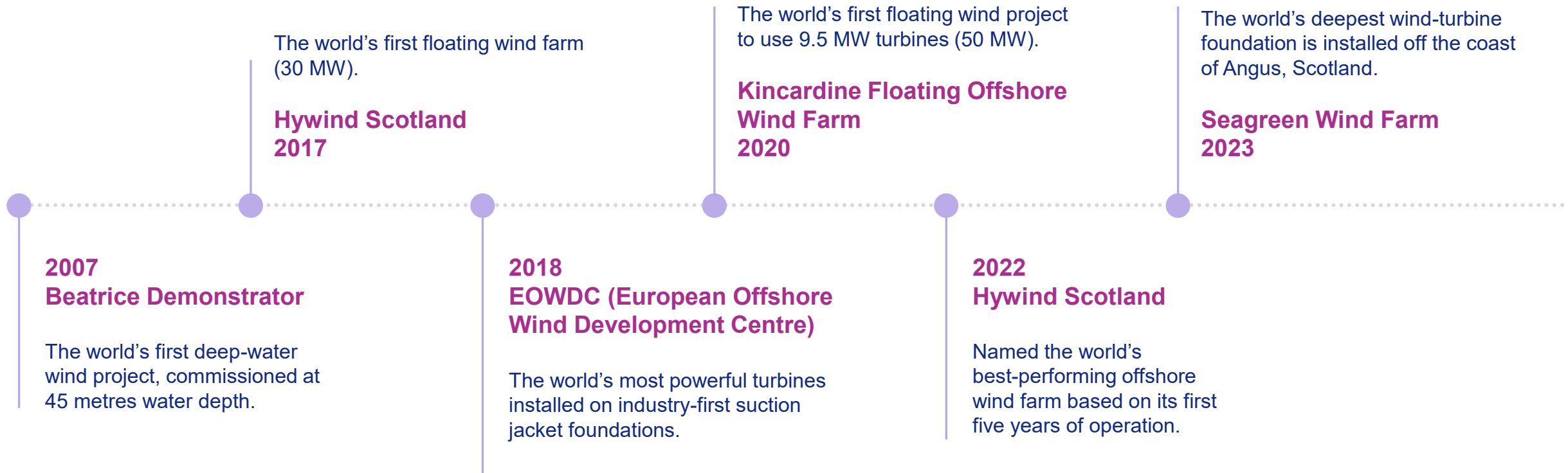
(on average) pledged by ScotWind developers to be spent in Scotland, supercharging local supply chains



LONG-TERM, STRATEGIC COMMITMENT TO OFFSHORE WIND

## A CULTURE OF INNOVATION

# SCOTLAND'S RECENT INNOVATIONS IN OFFSHORE WIND

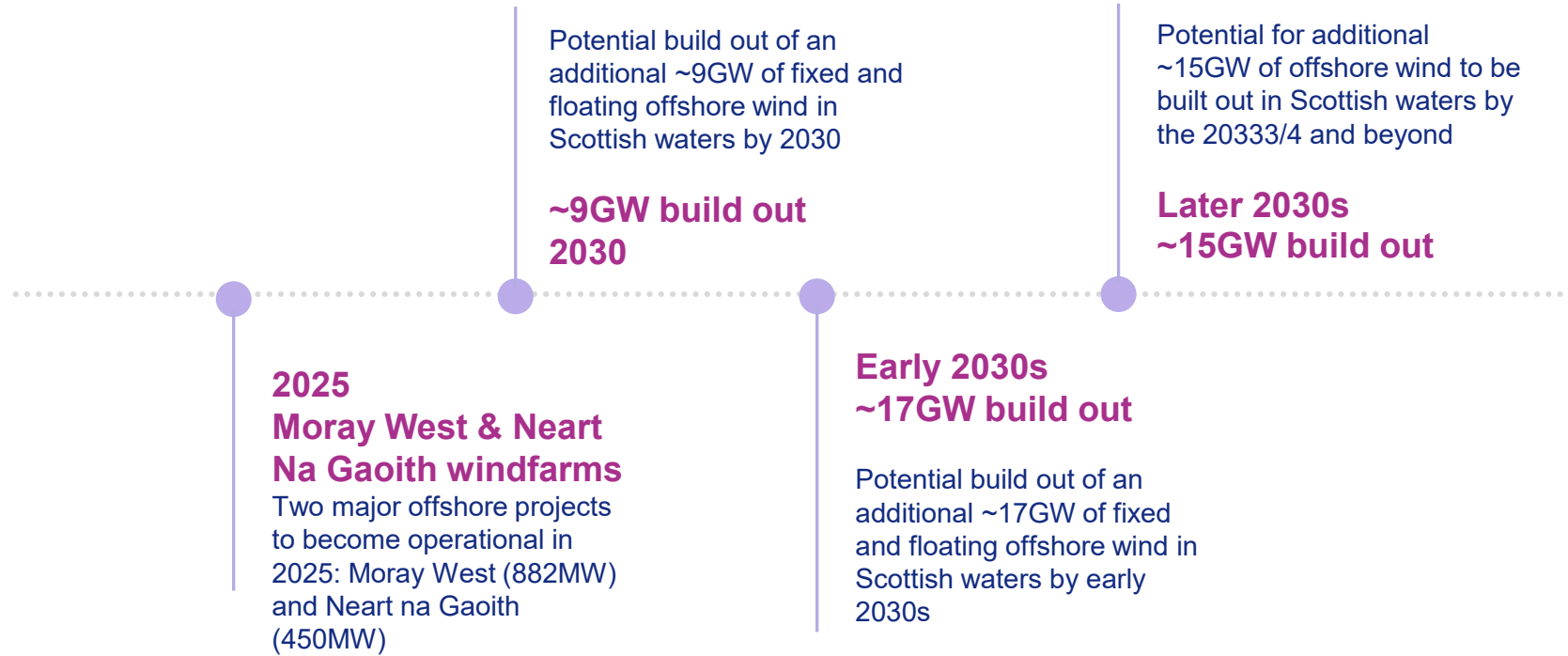


# LARGEST PLANNED OFFSHORE WIND CAPACITY

## POSSIBLE BUILD OUT SCENARIO IN SCOTLAND

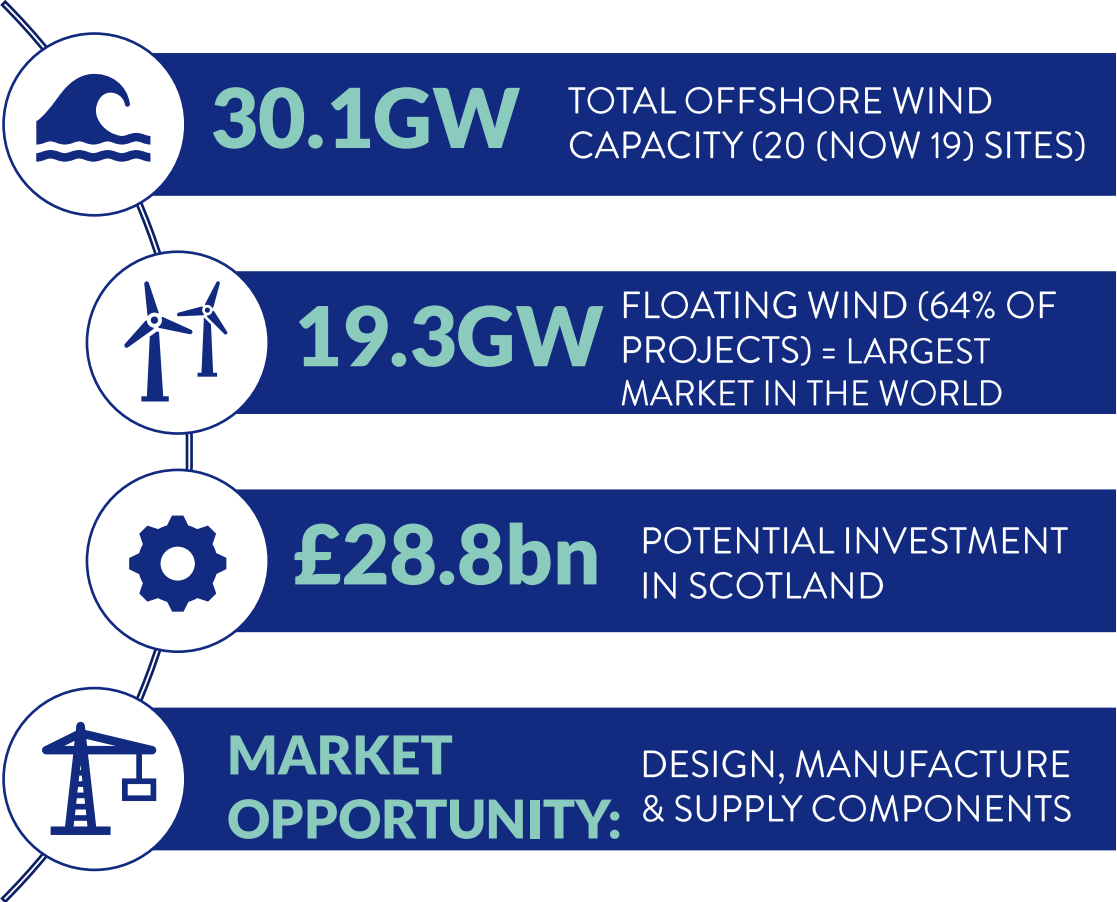


Offshore Wind Projects	Capacity
Current Projects	10 GW
ScotWind	30 GW
INTOG	5.4 GW
Total Expected Capacity	> 40 GW

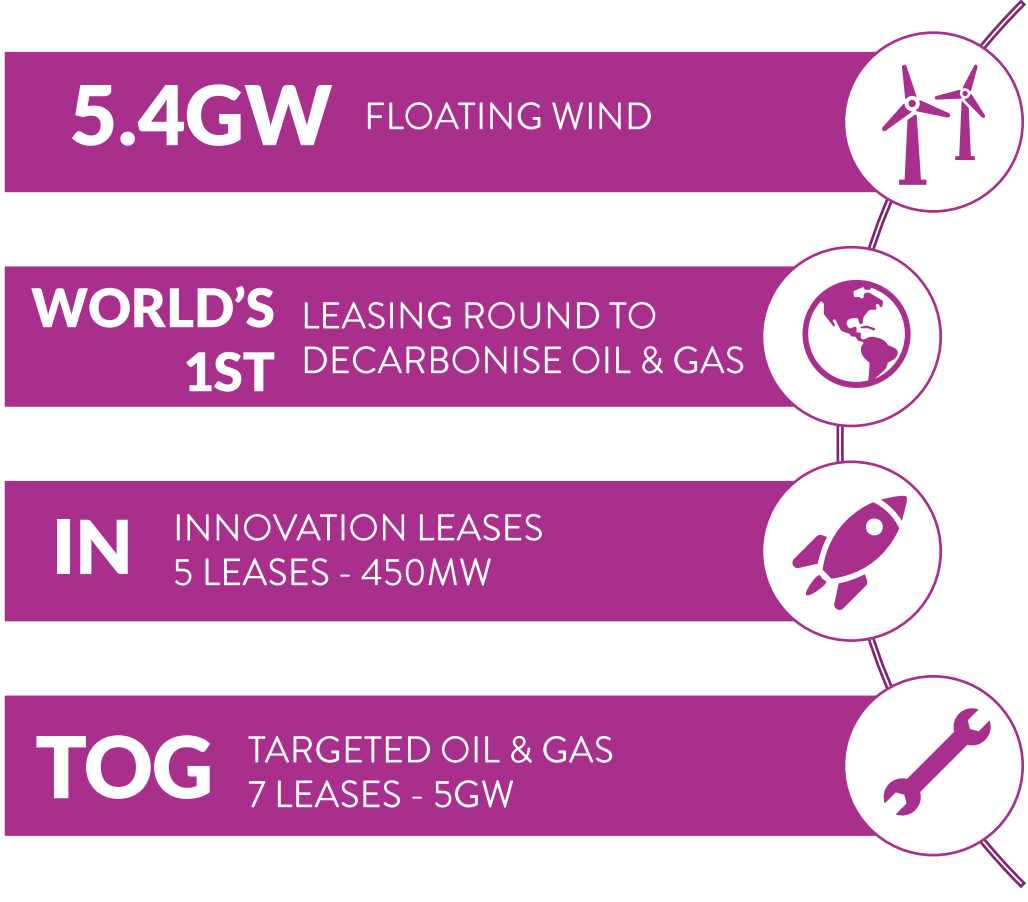


# SUMMARY OF SCOTLAND'S LEASING ROUNDS


## SCOTWIND LEASING ROUND



## INTOG (INNOVATION AND TARGETED OIL AND GAS) LEASING ROUND



offer exciting opportunities for technology development and supply chain engagement

A photograph of several offshore wind turbines in the ocean. The turbines are white with yellow bases and are spaced out across the water. The sky is blue and the water is dark blue with some whitecaps.

# ALLOCATION ROUNDS & KEY PROJECTS

[#SCOTLANDISNOW](#)



SCOTLAND

# CONTRACTS FOR DIFFERENCE ALLOCATION ROUND 7

**8.4 GW**  
offshore wind  
capacity awarded in  
AR7

**8.245 GW** bottom fixed  
**0.193 GW** floating



**Projects provide increased opportunities for Scottish supply chain and ports to win business across the UK**

- Timelines shortened to enable annual allocation rounds
- **AR8** launching July 26, with applications opening 13/05/26
- Up to 12.6GW of floating eligible to enter in Scotland

Scotland – Bottom Fixed	
Project	GW Awarded
Berwick Bank Phase B	1.380
<b>Total</b>	<b>1.380</b>
Scotland – Floating	
Project	GW Awarded
Pentland	0.0925
<b>Total</b>	<b>0.0925</b>

rUK – Bottom Fixed	
Project	GW Awarded
Awel Y Mor (A)	0.775
Dogger Bank SE & SW	3.000
Norfolk Vanguard East & West	3.090
<b>Total</b>	<b>6.865</b>

rUK – Floating	
Project	GW Awarded
Erebus	0.100
<b>Total</b>	<b>0.100</b>

# AR7 SCOTTISH PROJECTS

## Berwick Bank



- Fixed
- Developer: SSE
- 4100 MW
- 307 Turbines
- Consented
- AR7 result: 1.38 GW awarded

- Positive implication for inward investment in Scotland from OEMs and Tier 1s
- O&M and Marshalling likely for Scottish Ports
- No major fabrication or installation contracts awarded yet but would expect that now to progress

## Pentland




- Floating
- Developer: CIP
- 92.5 MW
- 7 Turbines
- Consented
- AR7 result: 92 MW awarded

- Small project but important continued momentum in floating space
- O&M port likely to be selected soon
- No substantial contracts awarded yet
- Investment from GB Energy, National Wealth Fund and SNIB could increase the focus on local content

**Both expected to boost investor and supply chain confidence in the renewable energy industry**

# SCOTTISH OFFSHORE WIND PROJECTS

  
**>40GW**  
 Scottish project pipeline

**24.9GW**  
 floating wind

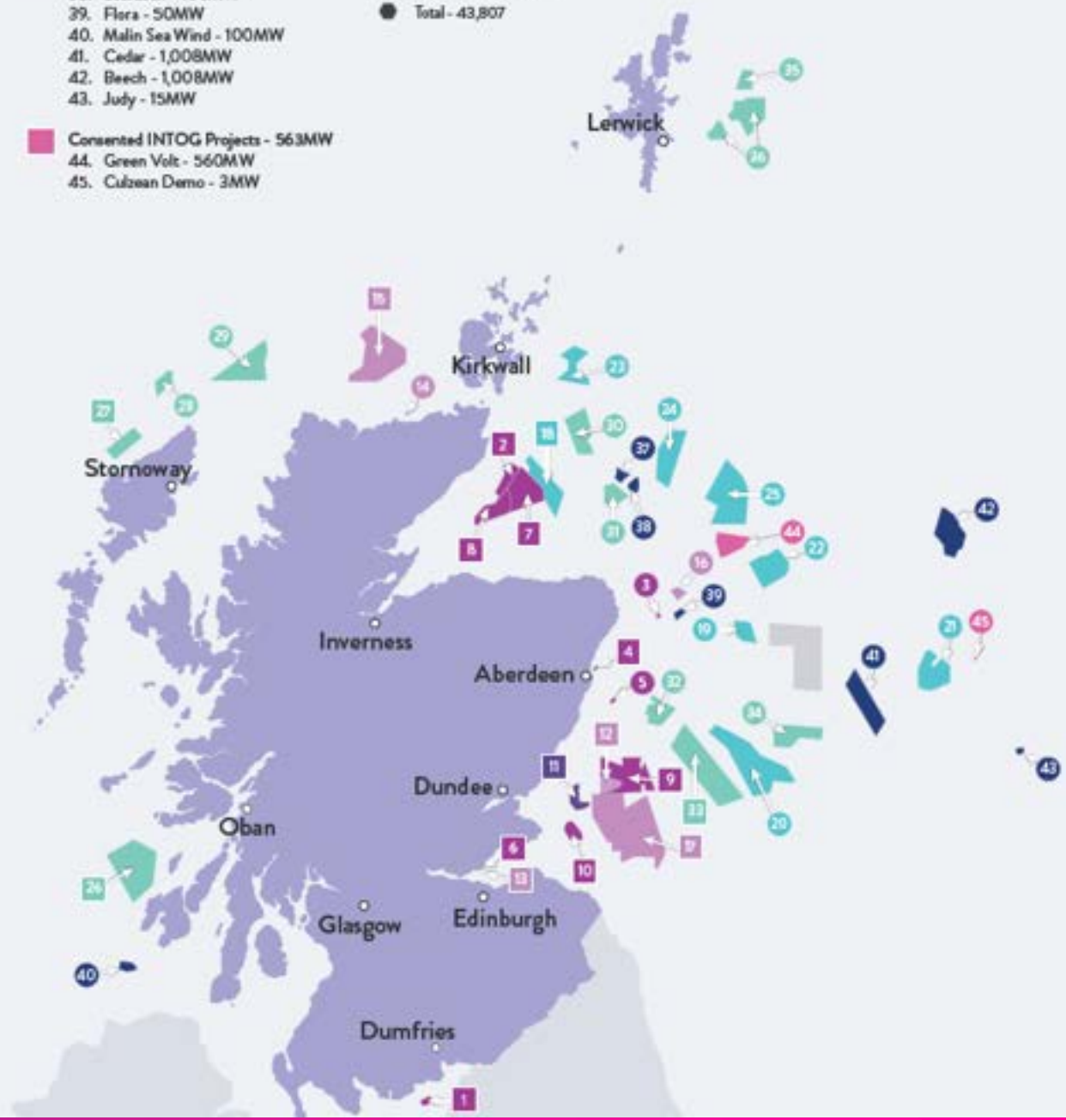
**20.7GW**  
 Bottom fixed

**INTERACTIVE MAP**  
 For the most up-to-date information on our ScotWind and INTOG projects please visit our interactive map:  
[SIM Milestone Map](#) | [Offshore Wind Scotland](#)

- Operational - 4,295MW**
  1. Robin Rigg - 174MW
  2. Beatrice - 588MW
  3. Hywind Scotland - 30MW
  4. Aberdeen Bay - 93MW
  5. Kincardine - 48MW
  6. Levenmouth Turbine - 7MW
  7. Moray East - 950MW
  8. Moray West - 882MW
  9. Seagreen - 1,075MW
  10. Neart na Gaoithe - 448MW
- Under Construction - 1,142MW**
  11. Inch Cape - 1,142MW
- Consented - 6,790MW**
  12. Seagreen 1a - 420MW
  13. Forthwind - 20MW
  14. Pentland - 100MW
  15. West of Orkney - 2,000MW
  16. Salamander - 100MW
  17. Benwick Bank - 4,150MW
- In Planning - 13,926MW**
  18. Caledonia - 2,000MW
  19. Muir Mhòr - 1,000MW
  20. Ossian - 3,600MW
  21. Cenos - 1,350MW
  22. Aspen - 1,008MW
  23. Ayre - 1,008MW
  24. Buchan - 960MW
  25. Marram Wind - 3,000MW
- ScotWind Projects - 14,710MW**
  26. Machair Wind - 2,000MW
  27. Spiorad na Mara - 900MW
  28. Talisk - 495MW
  29. Havbredey - 1,500MW
  30. Stromar - 1,000MW
  31. Broadshore - 900MW
  32. Bowdun - 1,008MW
  33. Morven - 2,907MW
  34. Bellrock - 1,200MW
  35. Stovara - 500MW
  36. Arven - 2,300MW

- INTOG Projects - 2,381MW**
  37. Sinclair - 100MW
  38. Scaraben - 100MW
  39. Flora - 50MW
  40. Malin Sea Wind - 100MW
  41. Cedar - 1,008MW
  42. Beech - 1,008MW
  43. Judy - 15MW
- Consented INTOG Projects - 563MW**
  44. Green Volt - 560MW
  45. Culzean Demo - 3MW

- Floating Wind - 24,058MW**
- Fixed Wind - 19,756MW**
- Total - 43,807**



A photograph of several offshore wind turbines in the ocean. The turbines are white with yellow bases and are spaced out across the water. The sky is blue and the water is dark blue with some whitecaps.

# SCOTTISH SUPPLY CHAIN & MARKET

**#SCOTLANDISNOW**



**SCOTLAND**

# SCOTTISH CAPABILITIES

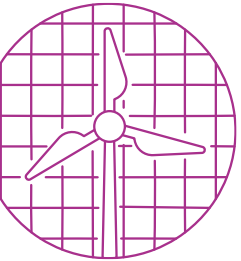
## Training

Scotland invests in its highly skilled workforce and is a leader at developing the next generation of offshore engineers and project managers.



## Design & Consultancy

Companies doing FEED work, foundation engineering, cable routing, and early-stage technical studies that shape a project



## Operations and maintenance

We are the market leader in keeping assets running with maximum efficiency and minimal downtime.

**700**  
SUBSEA  
COMPANIES

**2000+**  
ENERGY &  
ENGINEERING  
COMPANIES

**9250+**  
WIND ENERGY  
SUPPLY CHAIN  
BUSINESSES

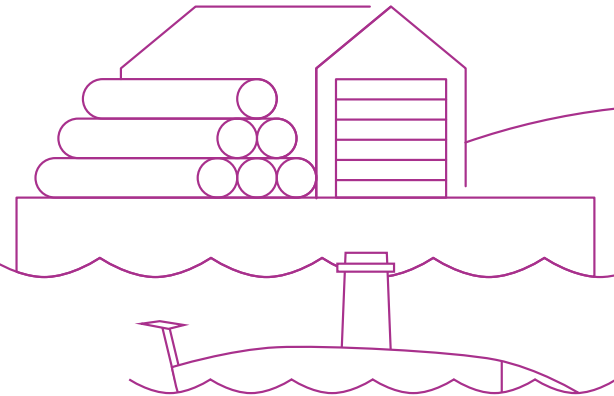
**SECONDARY STEEL  
& ADVANCED  
MANUFACTURING  
EXPERTISE**

**1**  
CONNECTED  
OFFSHORE WIND  
CLUSTER

**26 PORTS**  
ACTIVELY SERVICING  
WIND, SUBSEA &  
DECOM ACTIVITIES

## Survey & Site Characterisation

We use the latest technology to scope and inspect sites for offshore wind farms and ensure the feasibility of projects from a safety, environmental and commercial perspective.



## Project development and management

Teams experienced in managing complex marine operations and coordinating contractors.



## Installation and commissioning

Expert teams employ rigorous mechanical tests and safety checks to ensure that turbine installation and commissioning is completed to the highest industry standards.



## COMPONENT REQUIREMENT ESTIMATIONS



**1300+**  
floating foundations



**500+**  
fixed foundations



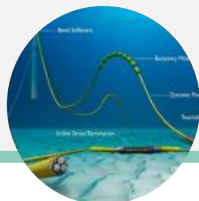
**5400+**  
blades



**1800+** nacelles  
**1800+** towers



**6885+**  
anchor & mooring systems



**2060 km** dynamic cable  
**900 km** static arrays  
**6100 km** export cables

## FOREIGN DIRECT INVESTMENT MOMENTUM

### Subsea Cables

- **£24.5m** grant for Sumitomo's £350 million subsea cable factory at the Port of Nigg, supporting around 330 jobs

### Foundations – ports as enablers

- Targeted public funding at **Ardersier, Nigg & Kishorn** is unlocking the deep-water quaysides and laydown needed for large-scale foundation manufacturing

### Anchor & Mooring Systems

- **£6.7m** commercial investment in Subsea Micropiles to develop innovative marine anchor systems, supporting around 100 jobs

### Major OEM signals

- **Navantia** – with public sector support are upgrading their Arnish site to enable large-scale offshore wind fabrication
- **Vestas** – intention to invest in a nacelle and hub facility in Scotland, creating a natural anchor for co-located suppliers

A photograph of several offshore wind turbines in the ocean. The turbines are white with yellow bases and are spaced out across the water. The sky is blue and the water is dark blue with some whitecaps.

**SDI**  
**SUPPORT**  
**EVERY STEP OF THE WAY**

**#SCOTLANDISNOW**



**SCOTLAND**

# SDI SUPPORT

## A SINGLE POINT OF CONTACT



Provide connections into Scotland's collaborative offshore wind ecosystem



Introductions to the Scotwind main players: developers, ports and main contractors



Introduce you to local companies for potential partnerships



Potential financial assistance for establishing in Scotland



Connections & introductions to Scotland & UK-wide support mechanisms & funding bodies



Property searches & advice to help you find the right facilities fast & help with feasibility studies



Assistance in establishing in Scotland: legal, tax, professional services



Connect you to industry & academic partners, giving you the opportunity to influence skills

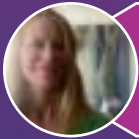
- ❖ Aftercare support: committed to seeing you grow and flourish in Scotland by taking the time to understand your needs now and in the future – can help you identify investment, develop your business strategy, upskill staff or improve business processes

INTERESTED!

# GET IN TOUCH



Matthew Clark – Inward Investment Specialist  
Matthew.Clark@Scotent.co.uk



Mia Barclay – Senior Inward Investment BD Executive  
Mia.Barclay@Scotent.co.uk



[www.sdi.co.uk](http://www.sdi.co.uk)



Matthew.Clark@Scotent.co.uk



+44 141 468 5228

**SCOTLAND STAND  
HALL 10 – H110**

**#SCOTLANDISNOW**





**Simply Blue**  
Energy

21<sup>st</sup> April 2026

# Simply Blue Energy

Wind Europe – MRC Meeting

Sam McCloskey, Head of Stakeholder Engagement



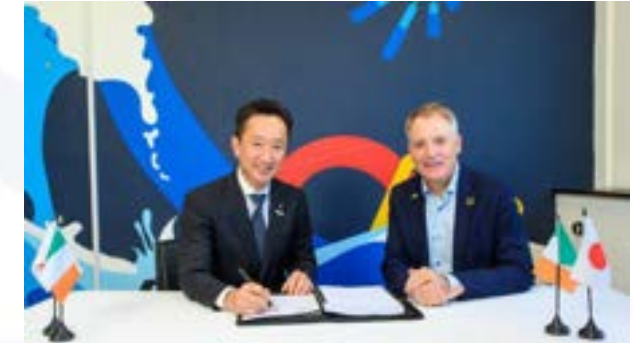
# Introduction



**Simply Blue**  
Energy

## Who we are

- Founded in **2011** under the brand Simply Blue Group.
- Backed by **Kansai Electric Power Co., Inc. (“KEPCO”)** one of Japan’s leading integrated energy providers, dedicated to delivering safe, reliable, and sustainable energy solutions.
- This strategic investment marked KEPCO’s first investment involving management participation in an offshore wind developer
- Rebranded as **Simply Blue Energy (SBE)** in 2026.
- SBE is actively developing a significant offshore wind portfolio comprising of **8 GW of floating offshore wind and 4 GW of fixed-bottom** wind projects across multiple markets.
- **Headquartered in Cork, Ireland** with an experienced and dedicated team working from offices in Dublin, Belfast, Newquay, Pembrokeshire, Edinburgh, Bilbao, and Nova Scotia.



# Purpose

An Irish offshore wind project developer working globally, with the ocean resources to deliver solutions to the climate crisis.



# Working with the Oceans

## Our Mission

We work with the oceans to develop offshore wind projects, that will deliver reliable, renewable energy to meet the world's growing demand and need for clean power. Backed by strong and committed shareholders, we are building the projects needed for a resilient, low-carbon energy future.

We are promoting climate stability, respect for biodiversity and the creation of lasting value for coastal communities and future generations

## Our Values

### Integrity

We take a long-term view and go that extra mile to do the right thing for our stakeholders, the community and the environment.

### Courage

We seek to learn and innovate from new technologies and have the confidence to make things happen.

### Passion

We are passionate about developing marine projects that sustain oceans and build local communities.

### Diversity

We embrace and respect differences in our people and the community.

### Responsibility

We take ownership of what we do, looking to find solutions and add value every step of the way.

# About Us

## Team of 40+ people

with experience in  
offshore wind



Offices in  
**8 countries**

Projects in  
**6 countries**



Global  
**supply chain  
relationships**

## Over 8 GW

Offshore wind projects  
under development (both  
fixed and floating)



Partnerships with  
**O&G supermajors &  
national utilities**

# Why Simply Blue Energy



Flexible approach to development of relationships and organisation



Track record reflected in a global development portfolio



Strategic vision integrating technological opportunities and the market context



Team of 40 + talented individuals



# Global Offshore Wind Portfolio



**Simply Blue**  
Energy

# Global Offshore Wind Portfolio



**8 GW** floating wind

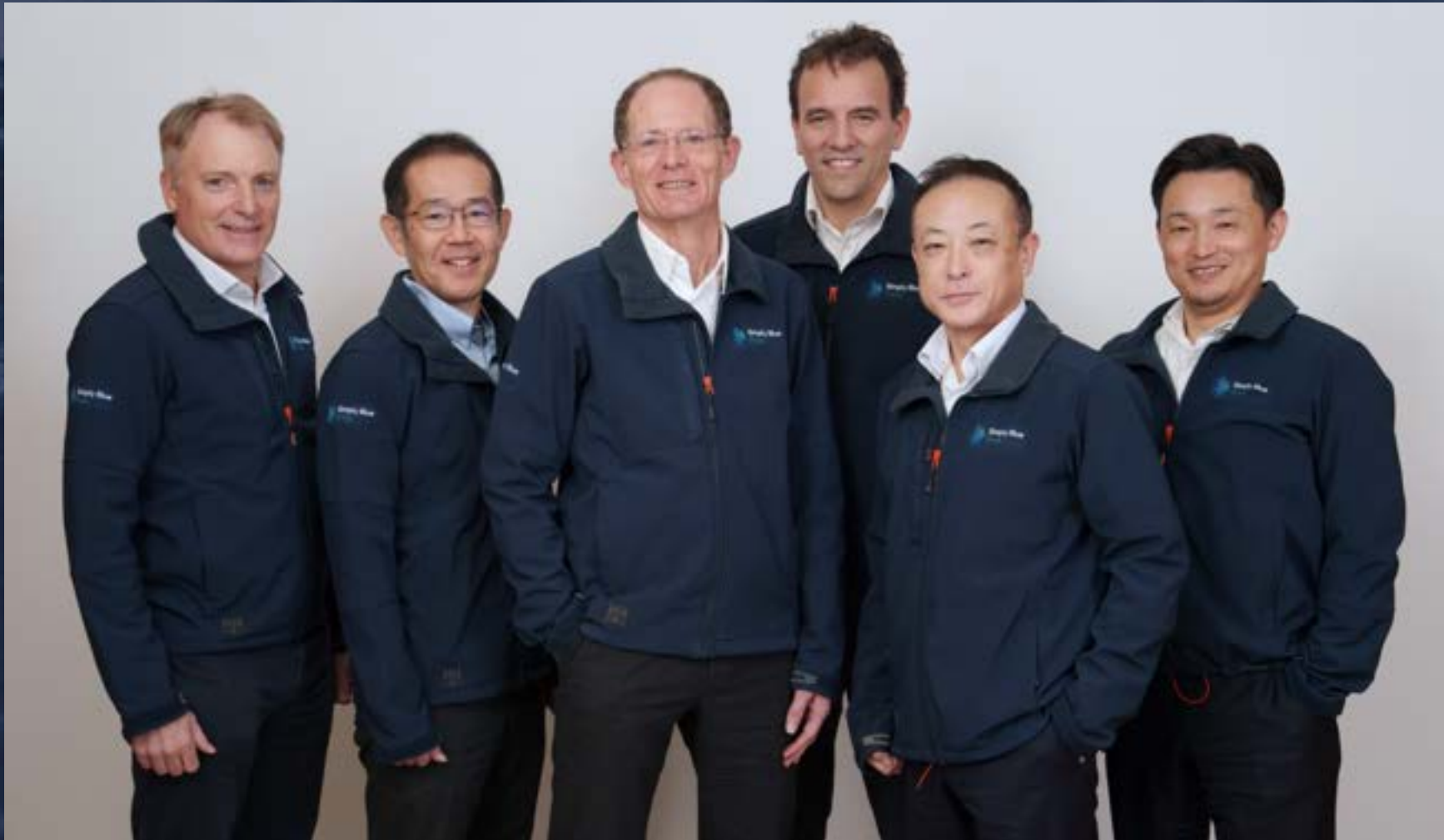
**4 GW** fixed wind

# Our Strategic Partners

- **Kansai Electric Power Co., Inc. (“KEPCO”)** and **Octopus Energy Generation** > Shareholder
- **TotalEnergies** > Blue Gem Wind (Erebus) UK
- **EDF Renewables** > Emerald & Western Star, Ireland
- **Odfjell Oceanwind & SubSea7** > Salamander Offshore Wind, Scotland
- **Grupo Amper & FF** > Iberblue Wind, Spain & Portugal
- **Archirodon** > ArcoBlue, Greece



# Simply Blue Energy - Board of Directors



L to R: Hugh Kelly, Yuki Koshida, David Povall, Chris Gaydon, Makoto Takeuchi and Kazuma Fukai



**Update on Ireland / NI Offshore Wind**



**Simply Blue**  
Energy

# Ireland's offshore wind sector

## Strengths:

- Exceptional wind resources
- Large maritime area
- Suitable for depths for fixed wind on east and south coast
- Huge resource in deeper west coast waters - floating
- Proximity to strong UK and EU supply chains and export markets

HOWEVER! Progress has been slow....but is picking up in Republic of Ireland



## 2004: Arklow Bank

- 25MW wind farm (7 turbines)
- Developed by Airtricity (now SSE Renewables) and GE Wind Energy
- World's first commercial offshore wind farm with turbines over 3MW



# Phase 1 & 2 Projects

## PHASE 1

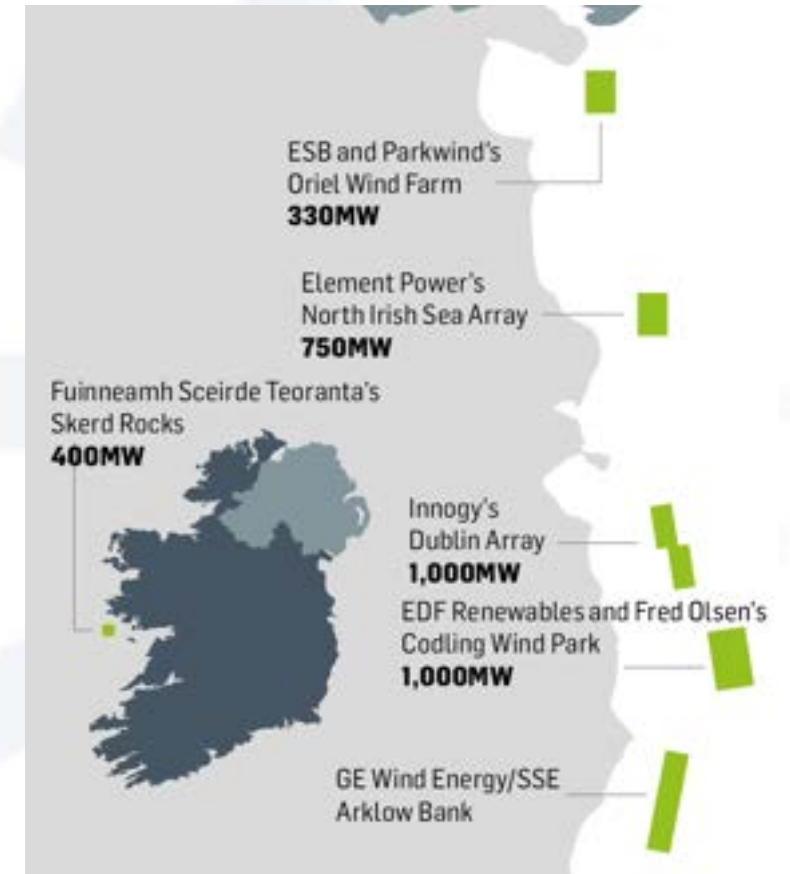
- 6 projects designated as Phase 1 Projects under the developer-led system. Major part of Ireland's 2030 climate and energy obligations
  - Codling: 1,300MW – EDF Renewables and Fred Olsen Seawind
  - Dublin Array: 824MW – RWE and Saorgus Energy
  - North Irish Sea Array; 500MW – Statkraft and CIP
  - ~~Sceirde Rocks: 450MW – Corio~~
  - Oriel Wind Park: 375MW – Parkwind and ESB
  - Arklow Bank Phase 2: 800MW – SSE Renewables
- 2022 – 2023: First ORESS auction awarded 1<sup>st</sup> four a CfD of €86.05.
- Oriel and Arklow – alternative RtM

## ORESS 2.1 (Tonn Nua)

- South Coast DMAP
- ESB & Orsted awarded CfD €98.719 – November 2025

## NATIONAL DMAP

- Surveys starting



Irish Time Graphic



**SBE on the island of Ireland**



**Simply Blue**  
Energy

# EDF/SBG Joint Venture - Emerald & Western Star

## Floating wind in Ireland:

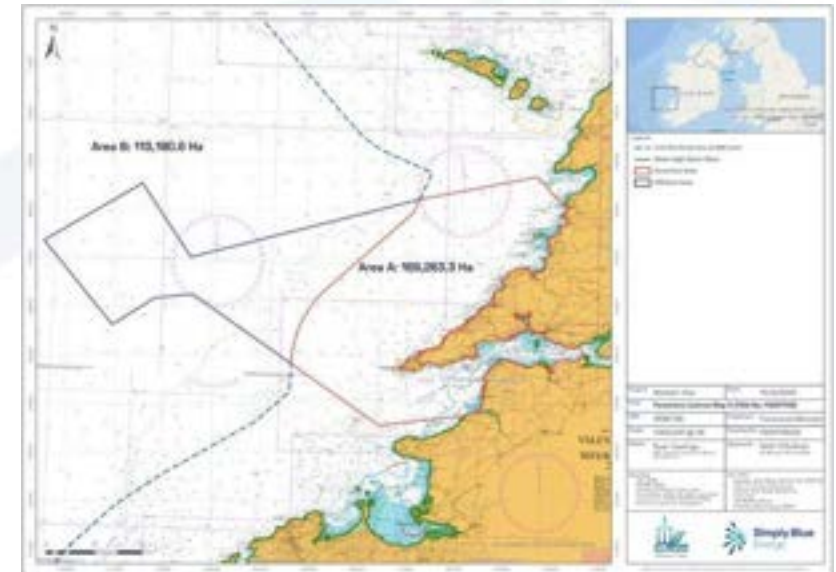
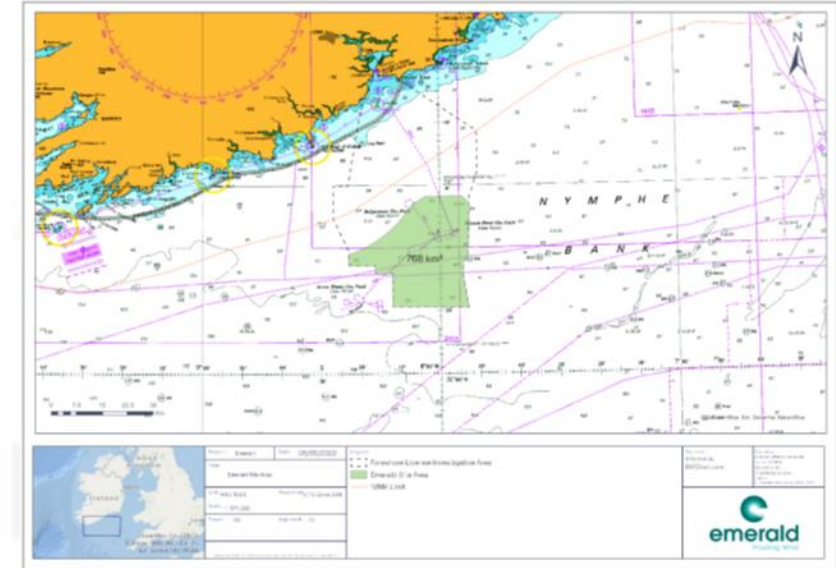
- Majority of Ireland's offshore wind resource is in deeper waters
- Cumulative impacts limits much more development in the Irish sea
- Existing grid capacity and deep water ports off the west coast

## Emerald & Western Star

- Floating Wind Joint Venture with EDF-Renewables in Ireland
- Western Star: 1.35GW off the Shannon Estuary
- Emerald: 1.3GW near the Kinsale Gas Field

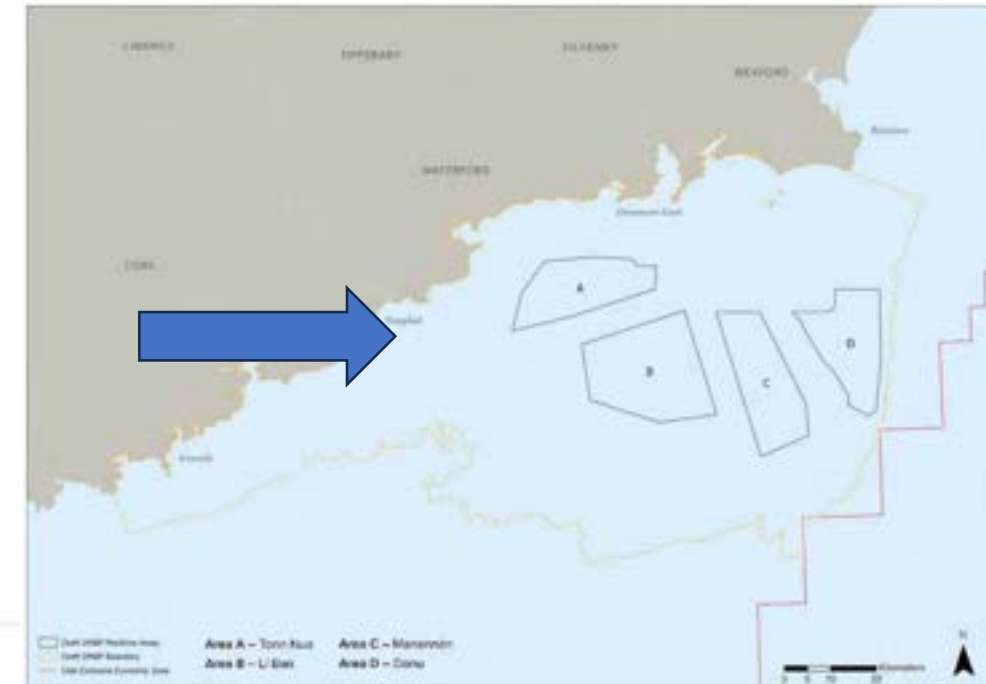
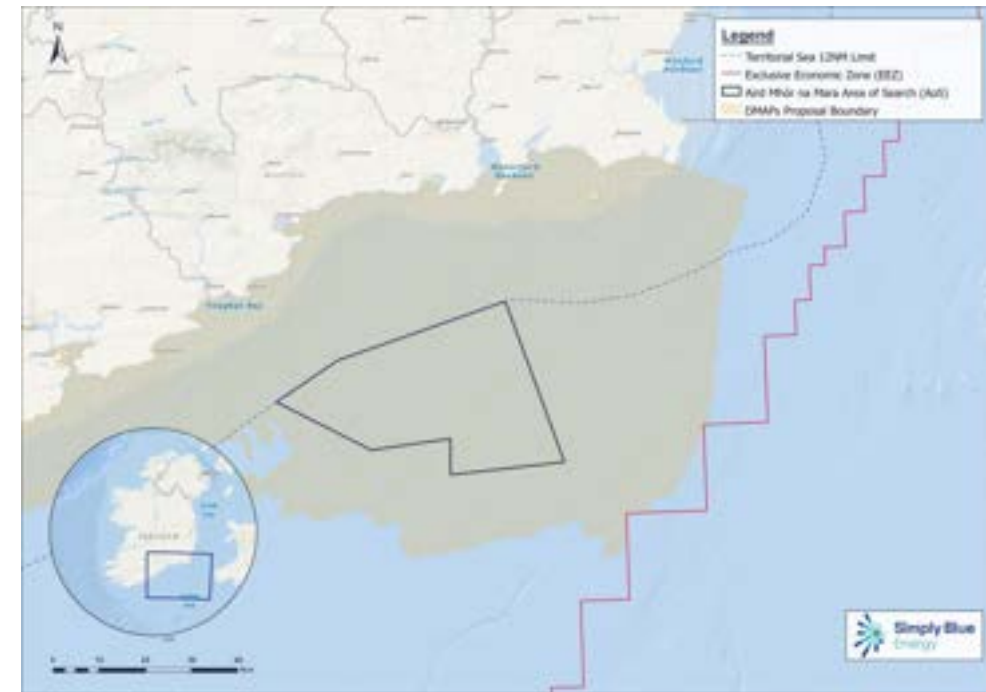
## Status

- Initial survey work complete and EIA Scoping report issued
- Switch to Plan-led in 2023 -> awaiting DMAPs in 2027
- Irish FLOW supply chain demonstrator policy in development



# Aird Mhór na Mara

- Up to 2GW of capacity of fixed-bottom wind
- Water depths range from 68-76m (72m average)
- 2023: Initial site screening
- 2024: Overlap with areas within SC-DMAP
- Preliminary engineering studies and commercial development underway
- 2027/8: Site control target



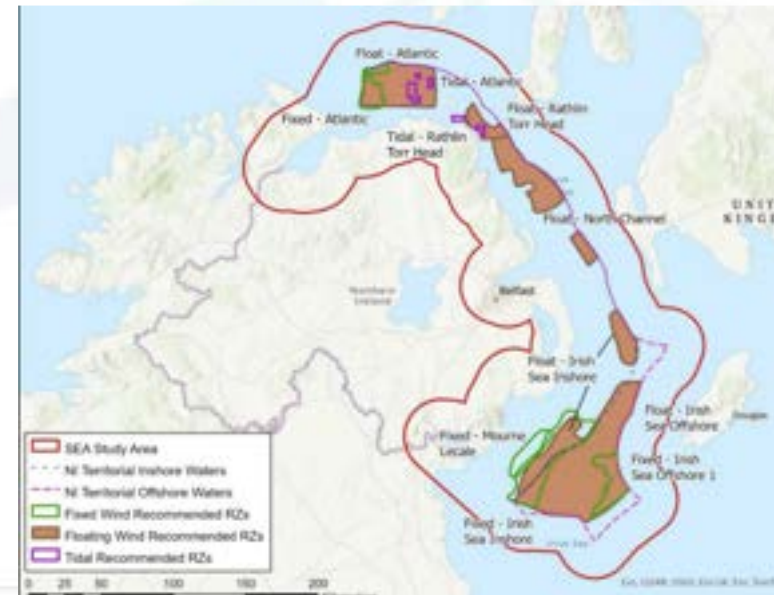
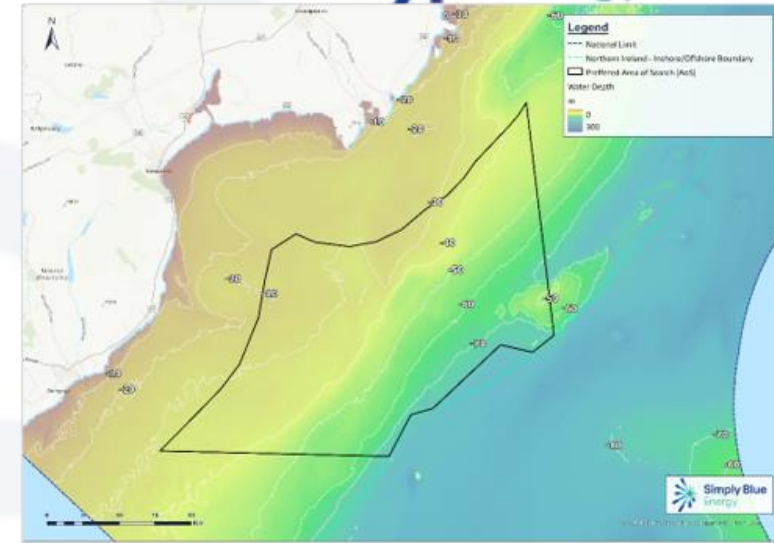
# Northern Ireland: Olympic

## About Olympic

- Began development in 2021
- Site Screening identified up to 2GW of fixed offshore wind capacity off Co. Cown
- Current activities: Metocean and power system studies. Stakeholder and policy engagement

## Northern Ireland Policy Development

- Targeting 1GW of offshore wind from 2030
- OREAP SEA / RIAA published in March 2025 – confirmed strong overlap with project site
- Crown Estate leasing round in 2026 (tbc)
- Devolved energy policy & regulation : New renewable support scheme auction 2026, offshore wind date yet to be announced
- Good port infrastructure





# How to Engage with the Supply Chain

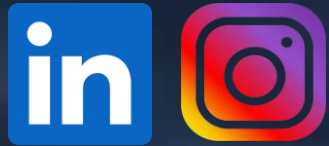
- Proactive engagement in networks
- Projects with separate entities
  - E.g Blue Gem Wind
- Log onto project websites
- Partner with local companies
  - Local content
- SBE Procurement team – stand 9-B100
- Atlantic Canada
  - Office in Halifax
  - POC – david.trask@simplyblueenergy.com



Contact Us:

info@simplyblueenergy.com

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Energy

[www.simplyblueenergy.com](http://www.simplyblueenergy.com)





# Scottish Offshore Wind Ports Alliance

Presented By SOWPA Chair, Iain Sinclair, Port of Nigg

# Introduction

The Scottish Offshore Wind Ports Alliance (**SOWPA**) is a progressive and collaborative forum of the country's leading **port locations** and **enabling infrastructure facilities**, targeted at optimising the opportunities from offshore wind.

The forum is represented by leading offshore energy ports across Scotland, which hold expertise across the full offshore wind **value chain**, from **Manufacturing and Fabrication**, through to **Marshalling, Assembly**, and **Operations & Maintenance**.

SOWPA is actively developing opportunities to **enhance regional competitiveness**, **drive efficiencies** and **fast-track** the required **expertise** to support the UK's burgeoning offshore wind industry.



# 348ha

Available laydown space with expansions planned to increase capacity by 46%

# 24km

Total quayside length with planned developments to increase capacity by 20%

# 15

Leading Scottish ports actively engaged across the offshore wind value chain





**“The Scottish Offshore Wind Ports Alliance brings together our best expertise and capabilities in port operations. This alliance will give us the ability to share experiences and expertise meaning our offer to industry is truly excellent.”**

Claire Mack, Chief Executive - Scottish Renewables

Eyemouth Harbour



Peel Ports (Hunterston)



Kishorn Port



Port of Nigg



Lerwick Harbour



Ardersier Energy Transition Facility



Orkney Harbours



Port of Cromarty Firth



Stornoway Port



Port of Montrose



Port of Aberdeen



Fraserburgh Harbour



Port of Inverness



Peterhead Port Authority



Scrabster Harbour



### Value Proposition for Offshore Wind



Manufacturing



Assembly



Fabrication



Marshalling



Integration



O&M



Scottish  
Offshore Wind  
Ports Alliance

[info@sowpa.co.uk](mailto:info@sowpa.co.uk)

## Management Team

The Scottish Offshore Wind Ports Alliance is led by a highly experienced management team, drawn from senior leadership across Scotland's key port infrastructure. Together, they bring deep industry insight and strategic oversight to drive collaboration and support the growth of offshore wind.

- Chair: **Iain Sinclair**, Chief Strategy Officer, Maraen Port of Nigg
- Vice-Chair: **Bob Sanguinetti**, Chief Executive Officer, Port of Aberdeen
- **Alasdair Ferguson**, Group Managing Director, Kishorn Port Ltd
- **Alex MacLeod**, Chief Executive, Stornoway Port Authority
- **Graeme Reid**, Chief Executive Officer, Peterhead Port Authority

## Supported By

- **Claire Mack** CEO Scottish Renewables
- **Richard Ballantyne** CEO British Ports Association





# Scottish Offshore Wind Ports Alliance

[sowpa.co.uk](http://sowpa.co.uk)



## ***Offshore Wind in Ireland: Marine Renewables Canada***

Justin Moran, Director of External Affairs, Wind Energy Ireland

*Wind Europe 22 April 2026*



# Leading Ireland's Clean Energy Future



In partnership with:



Our organisation supports 300+ companies across the island on wind, storage and electrification policy



**Dave Linehan**

Director of Policy & Research  
Wind Energy Ireland



**Bobby Smith**

Director of  
Energy Storage Ireland



**Anna Conlan**

Head of  
Ireland Electrified



**Mark Richardson**

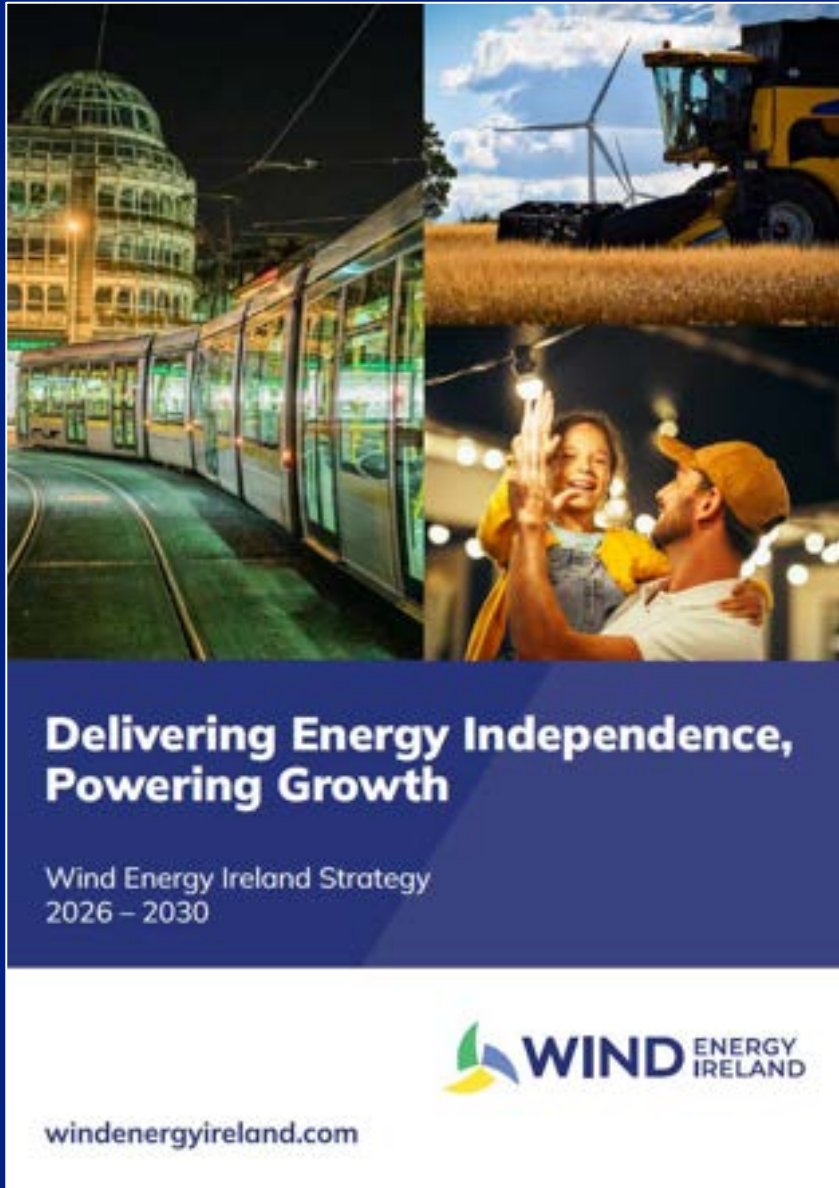
Director of  
RenewableNI



# Representing Over 200 Companies

Covering All Aspects Of Onshore And Offshore Wind

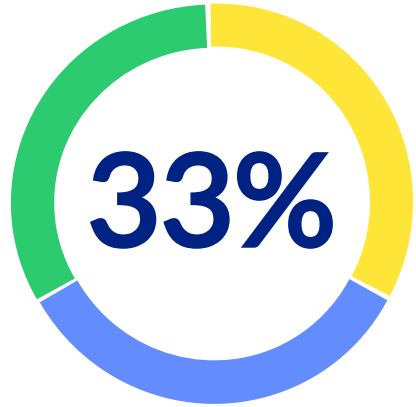




# Delivering Energy Independence, Powering Growth

## Wind Energy Ireland Strategy 2026 - 2030

# 2025 – From Concept to Delivery



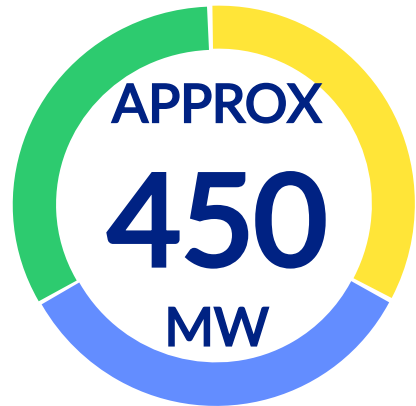
**33%**

of Ireland's  
electricity from  
wind in 2025



**€1.2**  
BILLION

Wind energy  
saved €1.2 billion  
in gas costs for  
Ireland in 2025



APPROX

**450**

MW

of onshore wind  
farms reached  
financial close and  
began construction



**5**

Phase 1 wind  
farm projects  
now in the  
planning system



**1.3GW+**

of new onshore  
wind farms entered  
the planning system



**Tonn  
Nua**

Competitive second  
offshore auction  
held and 900MW  
contracted



**WIND** ENERGY  
IRELAND

# Offshore Wind Action Plan

How Ireland can accelerate  
offshore wind delivery



[windenergyireland.com](http://windenergyireland.com)



**WIND** ENERGY  
IRELAND

# Wind Energy Ireland Offshore Wind Action Plan

Sets out the key priorities to deliver on Ireland's offshore wind potential



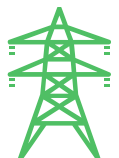
1. **Delivering the Phase One projects** to establish Ireland's offshore wind industry.



2. **Maximising the South Coast Designated Maritime Area Plan (DMAP)**, including progressing Tonn Nua and future development of sites B, C and D.



3. **Accelerating the National ORE DMAP** to provide a long-term pipeline of 15 GW of projects for fixed and floating wind.



4. **Building vital infrastructure and demand strategies**, including investment in ports, grid capacity and industrial demand to support offshore wind growth.



# National DMAP Opportunity



## National Designated Maritime Area Plan for Offshore Renewable Energy Proposal

2025



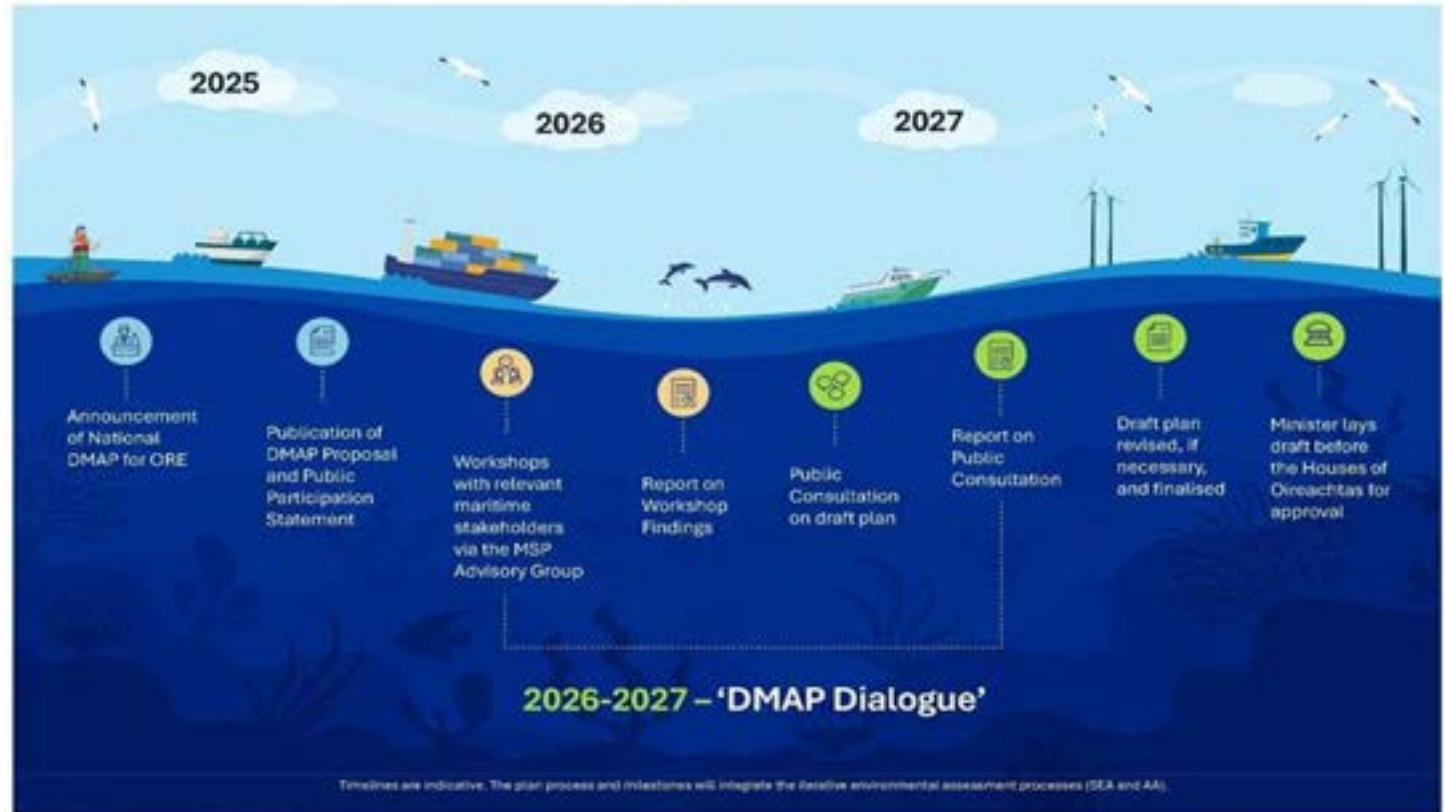
## Public Participation Statement for the National Designated Maritime Area Plan for Offshore Renewable Energy

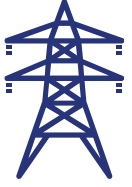
2025

Prepared by the Department of Climate, Energy and the Environment  
gov.ie

Prepared by the Department of Climate, Energy and the Environment  
gov.ie

## National Maritime Plan for Offshore Renewable Energy: Milestone Stages



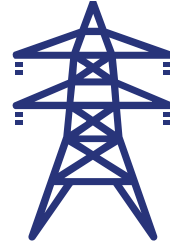


## Build the Enablers



### Build Customers

- South-East **1GW+** Demand Strategy
- **GW-Scale** Coastal Green Energy Parks
- Longer-term export opportunity after **domestic electrification**



### Build Grid

- Grid capacity is ***the most critical enabler***
- **Net-Zero Network Plan** – Offshore Grid Bootstraps, Interconnection, & Private Wires which **unlock customers**



### Build Ports

- National Ports Policy – **Strategic Ports Investment still needed**
- Prioritise expansion of **at least two ports**

# Government's Offshore Wind Clearing House

Our Taoiseach and Minister have established an Offshore Wind Clearing House to deliver projects

## Taoiseach and Minister O'Brien announce establishment of Offshore Wind Energy Clearing House



### Key focus areas:



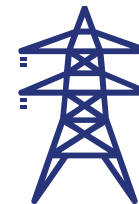
Ensuring timelines are met across Government



The planning system & associated resourcing



Port infrastructure investment & readiness



Certainty of grid capacity & route-to-market for projects



# ffshore

# WIND 2026

26 - 27 May 2026

09:30 - 17:00

Clayton Hotel Burlington Road

Leeson Street Upper

Dublin, D04 A318

Deloitte.



amazon



FLOTATION ENERGY

JERA  
NEX  
BP



MASON  
HAYES &  
CURRAN

PHILIP LEE



**RDS, Dublin, Ireland**

**21-22**

**October**



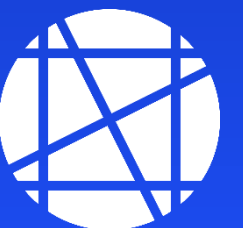
[windenergyireland.com](http://windenergyireland.com)

# **Offshore Wind in the Netherlands**

Engagement between  
the Netherlands and Canada

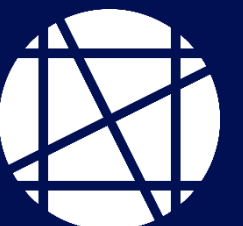
**Jan Vos – Chairman**

WindEurope Madrid | 22 april 2026



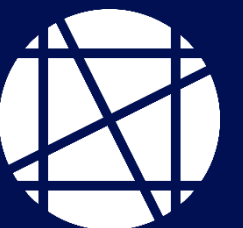
# **NedZero** – the brancheorganisation of the Dutch wind energy sector

- 300 member companies and counting
- Onshore- and offshore- wind energy
- Lobby - regional and national
- Networking and knowledge exchange
- Internationalisation



# New government

- Long-term funding support for offshore wind projects
- Electrification of the industry
- Grid congestion crisis act



# Hamburg declaration

- 300 GW OSW capacity in 2050.
- 10 years realisation of 15 GW/yr
- CfDs as the standard for auctions
- € 1 trillion → 91.000 new jobs
- € 9,5 billion for vessels, port infrastructure and manufacturing;
- 30% LCOE reduction by 2040
- Industrial electrification



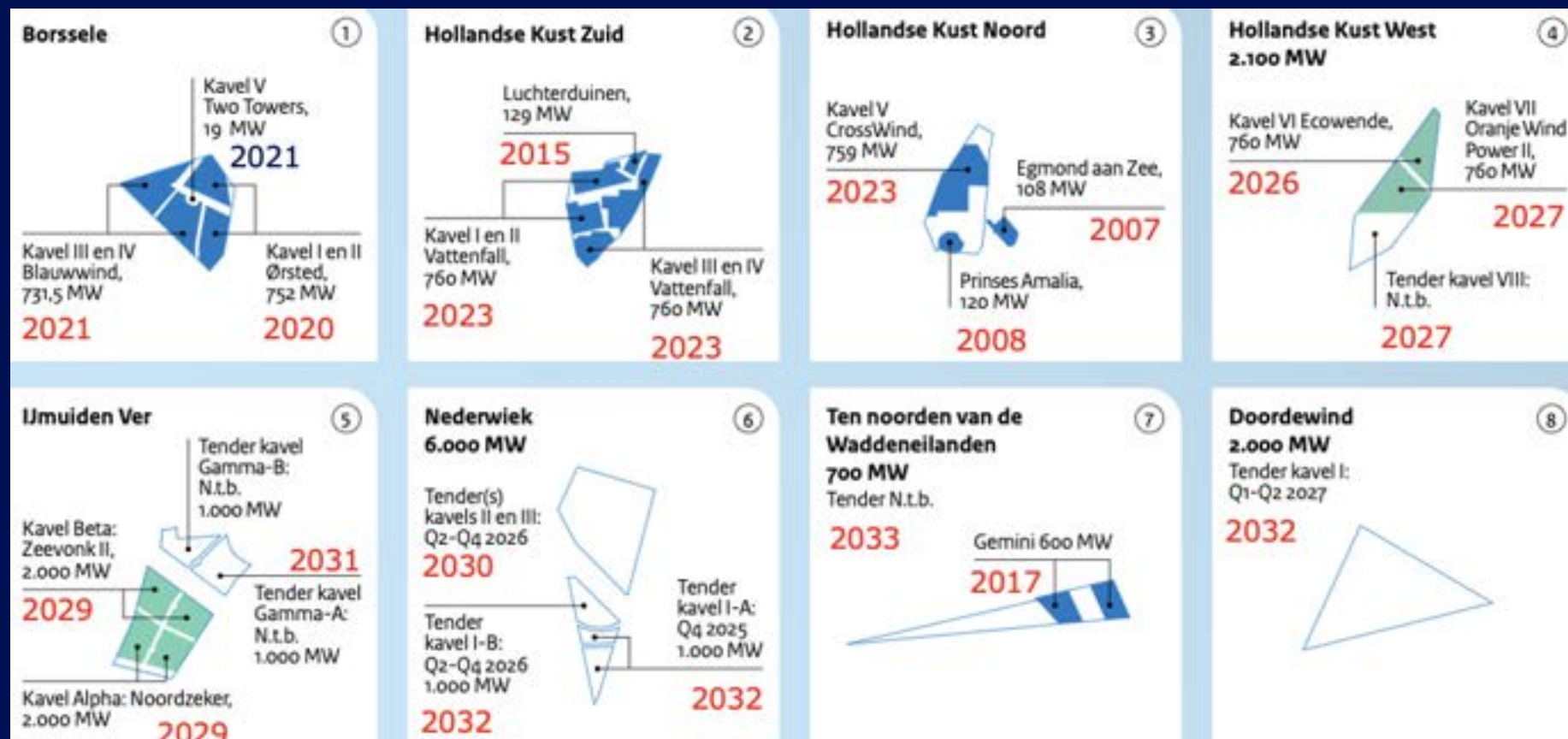
## THE HAMBURG DECLARATION

Building the North Seas' power hub for a resilient and competitive Europe



# Current status of offshore wind in the Netherlands

- Under construction: **1,5 GW**
- In operation: **4,7 GW**
- 2032 target **21 GW**.
- 2040 target: **30–40 GW**,
- 2050 target **70 GW**



## Next steps

- Offshore wind tender 2025 failed  
→ Offshore Wind Action Plan
- Offshore wind tender 2026:  
2 plots of 1 GW each (8 Billion EUR)
- From 2027 onwards: CfD mechanism

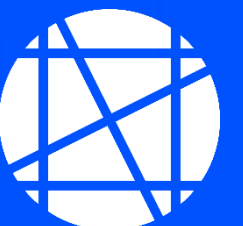


## Main challenges for offshore wind in the Netherlands

- Industrial electrification
- Business case of offshore wind
- Supply chain and ports capacity
- Grid expansion
- Marine spatial planning.

## Strengths of Dutch offshore wind energy sector

- Collaboration in spatial planning:
- Offshore logistics and installation
- Non price criteria for tenders
- Nature inclusive design and operations





Thank you for your attention!

