

# BUSINESS BREAKFASTS

North Queensferry • Musselburgh • Dundee • Aberdeen

**FORTH & TAY**  
OFFSHORE



Powering Scotland's East Coast

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



# **BUSINESS BREAKFASTS**

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**Powering Scotland's East Coast**

**Ross Mackenzie**

**Invest in Fife Manager, Fife Council**

**Wednesday 18<sup>th</sup> September 2019**





## HOUSEKEEPING

- Scheduled fire alarm tests at 11am on Fridays
- If the fire alarm does sound and it is not a test, please evacuate using the clearly signposted exits
- Mobile phones on silent. BUT feel free to contribute to social media

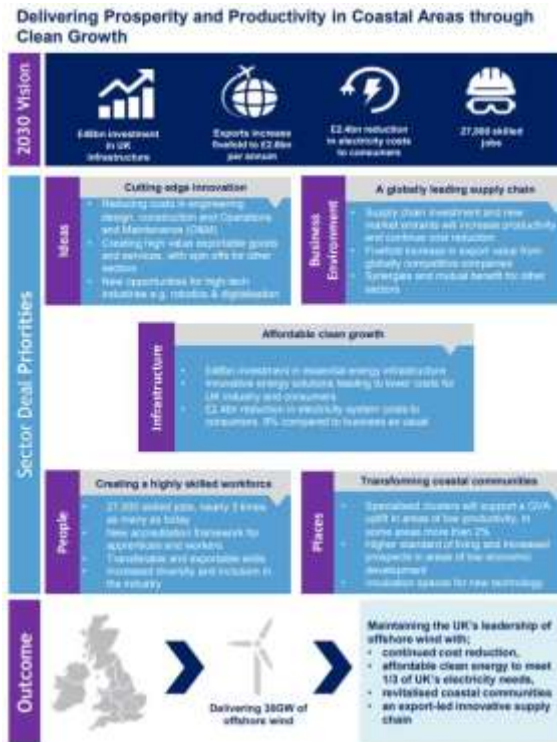
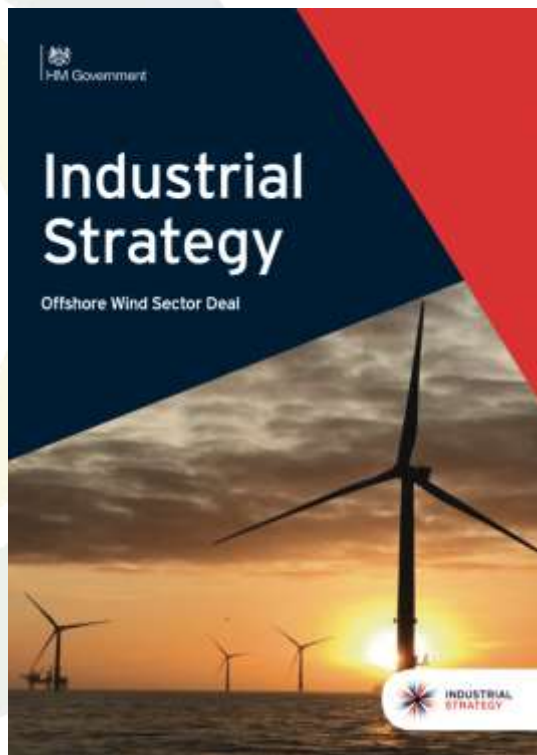
**#ForthTayOffshore # FTOBusinessBreakfasts @investinfife**

## PROGRAMME

08:00	Registration
08:45	Welcome & Event Intro
09:00	Offshore Wind Industry Update
09:20	Business Perspectives
09:40	Offshore Wind Growth Partnership
09:55	Services to Support Your Business
10:05	Q & A
10:20	Closing Remarks
10:30	Networking
11:00	Close

Ross Mackenzie  
Niall Stuart, Red Rock Power  
Craig English, Briggs Marine  
Andy Tipping, OREC  
Isla Robb, Scottish Enterprise  
Isla Robb, Scottish Enterprise  
Isla Robb, Scottish Enterprise

# Why a Cluster approach to Offshore Wind?



## Place: Transforming coastal communities

- Regional hubs attracting new industries
- Synergies of collaboration between business & academia
- Higher standard of living and increased prospects in areas of low employment
- Incubation spaces for new technology

# Cluster Approach – Why Forth & Tay?



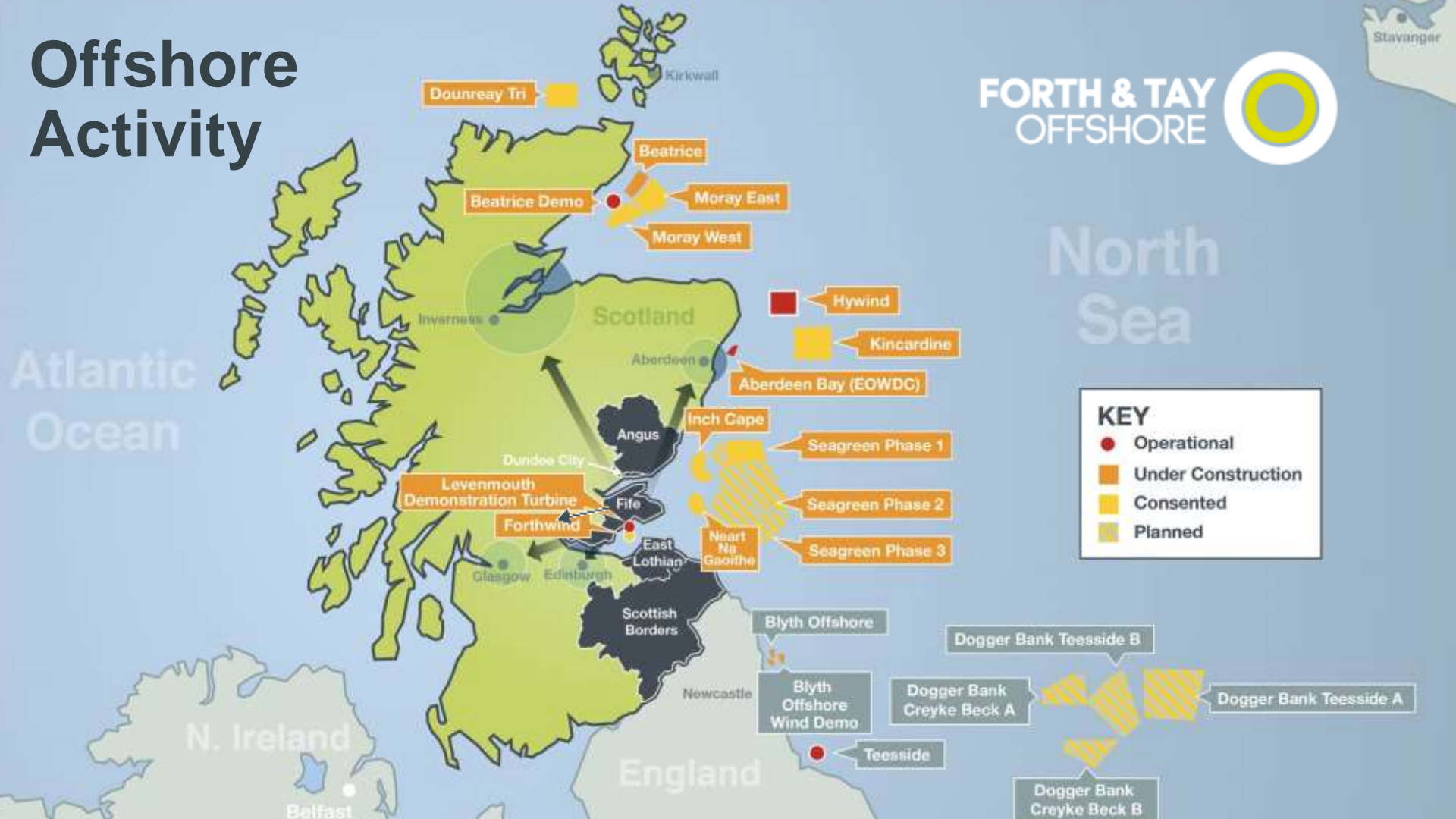
- 1 of 2 Clusters agreed in Scotland (8 in UK)
- **c3.75GW capacity** by 2030 (12% of UK capacity) / 2GW consented / 450MW moving into construction
- Playbook - Established capability – **Balance of Plant** (cabling, foundations and substations), **Operations, Maintenance & Service** and **Skills** (including R & D and training)
- Track record of **working together** in this space – East Coast Renewables
- Regional Strategic Drivers:
  - **Tay Cities Deal** - greater regional working / ambition to create a world-class renewable energy & decommissioning capability.
  - **Edinburgh & South East Scotland City Deal**





# Offshore Activity

FORTH & TAY  
OFFSHORE



# SUPPLY CHAIN CAPABILITY

## Development & Consenting

Environmental survey, seabed survey, met mast, development services.

## Balance of Plant

Foundations, cables, offshore substation, onshore electricals.

## Turbine Manufacture

Rotor, nacelle, tower & blades.

## Installation and Commissioning

Foundation, cables, turbine, offshore substations.

## Operations and Maintenance

All operations, all maintenance, onshore electricals.

University of Dundee



everoze



TEXO GROUP

COLLETT



OCEANEERING



RIXSHIPPING  
WE DELIVER

LIMPET

Briggs



ONSHORE ELECTRICALS

UNDERGROUND CABLES

OFFSHORE SUB-STATION

FOOT

FIN

CABLES

MONOPILE

JACKET

FLOATING

## Ports & Quayside Infrastructure



Forth Ports



ENERGY PARK  
FIFE SCOTLAND



Montrose  
PORT AUTHORITY



EYEMOUTH  
HARBOUR TRUST

## Skills and Innovation

CATAPULT  
Offshore Renewable Energy



Fife College



DA COLLEGE



# Who are Forth & Tay Offshore?



Our cluster is not geographically exclusive, as we take in key areas across the central belt, covering developers and innovative institutions ensuring all parts of the industry are represented; playing a part in advancing the sector for Scotland.

# Our Aims

- Promote the regional supply chain to Tier 1 manufacturers in the offshore wind sector and develop collaborative working throughout the industry
- Work with our world renowned colleges and universities to deliver innovative new solutions within the sector, while continuing to develop and promote the skills required to meet the sector's needs
- Share and develop knowledge of the offshore wind sector to enable the supply chain to capitalise on all opportunities
- Support members who want to compete for contracts across the UK and internationally
- Invest in infrastructure which will establish the cluster's offshore proposition as one of the UK's prominent renewable energy hubs.



# Activity to date



Cluster formation & Industry events



Working with Developers & Other  
Clusters



Promoting Supply Chain Capability

# Why should my business get involved?



- **Information and updates** on:
  - The growth of the local, national and international offshore wind industry
  - Contract opportunities through:
    - Meet the Buyer events
    - Updates and newsletters
  - Funding opportunities, such as the Offshore Wind Growth Partnership
  - Existing support services from Business Gateway and Scottish Enterprise.
  - How local training providers can support your expansion or diversification, and how they are helping the growth of the sector
  - Innovation support and potential partnerships with local research bodies and universities
- **Promotion** of your company through the FTO and Scotland Offshore Wind Supply Chain database
- **One-to-one meetings** with offshore wind developers and their main suppliers to discuss contract opportunities at relevant events
- **Case studies** of other companies which have successfully entered the offshore wind market
- **Networking opportunities** to meet with potential partners or customers



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Invest in Fife Manager, Fife Council

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SUPPLY CHAIN

SKILLS

INNOVATION

PORTS

# Industry Update

## Niall Stuart, Red Rock Power



## Objectives:

- Scale
- Here today – here tomorrow
- Latest industry trends



# UK

- 8.5GW across UK
- On track to generate 10% of UK electricity next year
- 7,200 direct jobs
- Major part of energy sector
- Contract for Difference Allocation Round 3
  - Results out tomorrow or Friday
  - Up to 6GW of projects to be supported
  - Gone from projects receiving ~300% of wholesale price to ~3% 'top up'

# Scotland

- Scotland home to leading national and international developers:
  - SSE Renewables; ScottishPower Renewables; EDPR Renewables; EDF Renewables; Red Rock Power;
- And key parts of supply chain:
  - SeaWay7; Wood; Shepherd and Wedderburn; CS Wind; Foundoecean; Global Energy; Windhoist; Oceaneering
- Aberdeen Bay and Hywind 2 floating demonstrator commissioned in 2018
- Beatrice Wind Farm opened in August 2019
- Moray East in construction; Neart na Gaoithe in pre-construction
- Moray West, Inch Cape, Seagreen Alpha and Bravo consented

# Context - Scotland

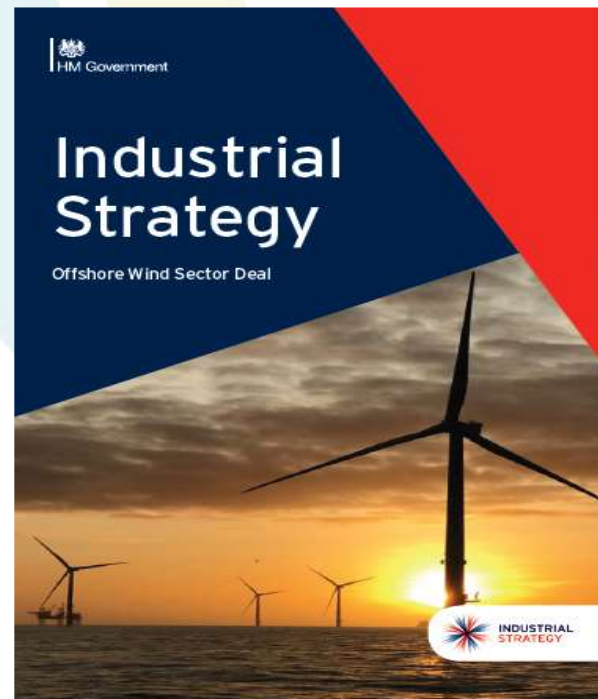
## FORTH & TAY OFFSHORE





# Tomorrow – Sector Deal

- Bi-annual Contract for Difference rounds – delivery of 1-2GW pa
- By 2030:
  - 30GW in operation = 30% UK power needs
  - 60 per cent UK content
  - 30% women in workforce
  - Increase exports x5 to £2.6bn
- £250m invested in supply chain development

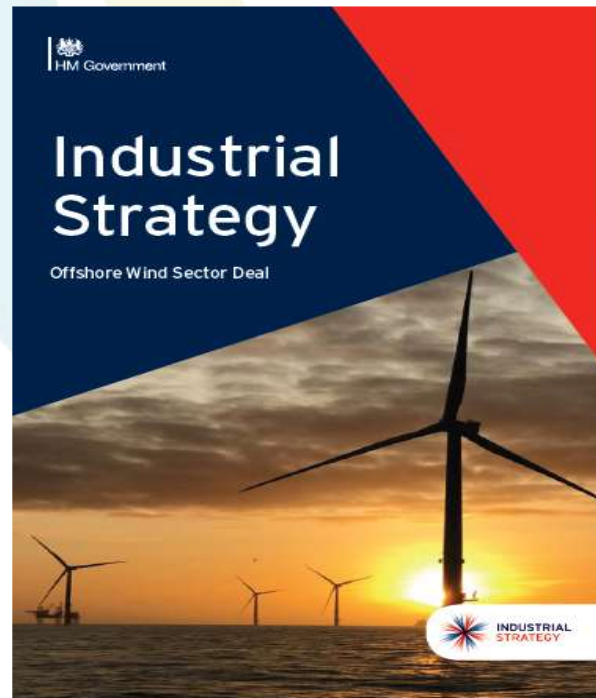


# Sector Deal (2)

## Key conclusions:

- Industry-Govt Compact - avoid stop-start
- £40bn to be invested to 2030
- Support for firms to grow/enter sector
- Stimulation of coastal communities via clusters concept
- Developers part of industrial strategy
- Structures to hold to account!

Scottish Offshore Wind Energy Council  
seeking to maximise benefits to Scotland



# Purpose of Clusters

Developers, Governments, Enterprise Agencies, Local Authorities are supporting Cluster concept because:

- Consolidated 'landing point' for tier 1 contractors
- Opportunity to foster collaboration and identify economies of scale
- Mechanism for enabling local infrastructure investment

Regional Clusters:

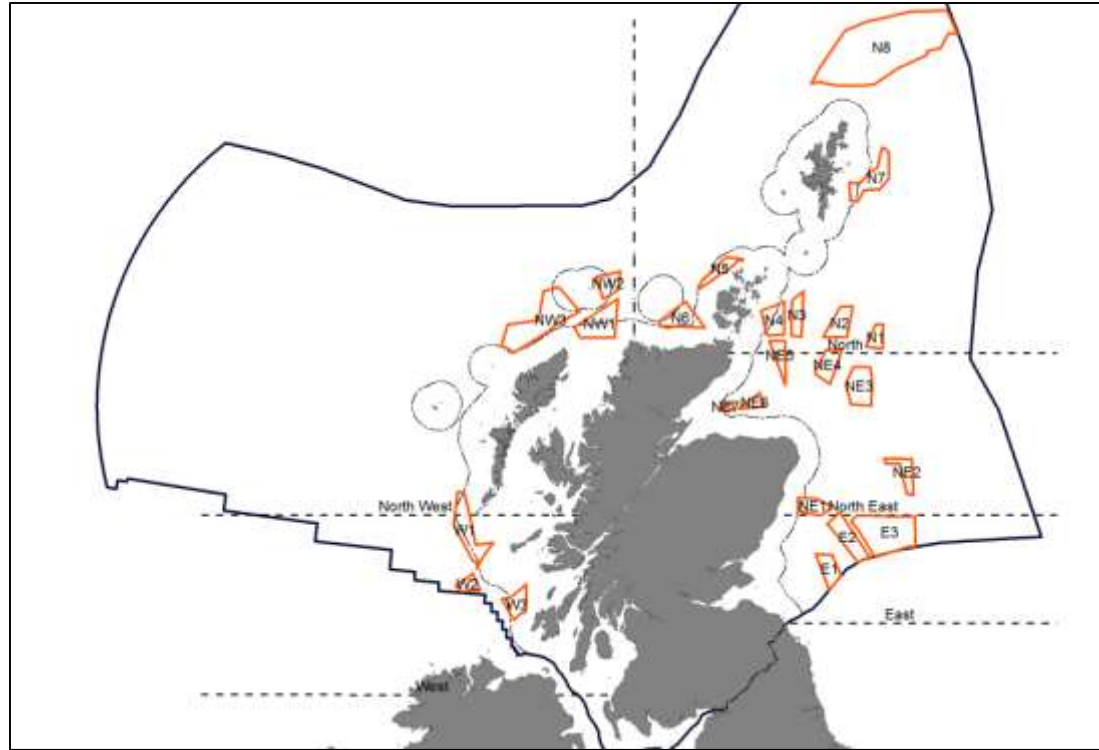
- Deepwind (Moray Firth)
- Energi Coast (Tyne & Tees, NE)
- North West (Irish Sea, NW)
- Aura (Humber, E England)
- Norfolk & Suffolk (East Anglia, SE England)



## Looking Further Out...



**FORTH & TAY**  
OFFSHORE





# Fixed ~~Versus~~ and Floating

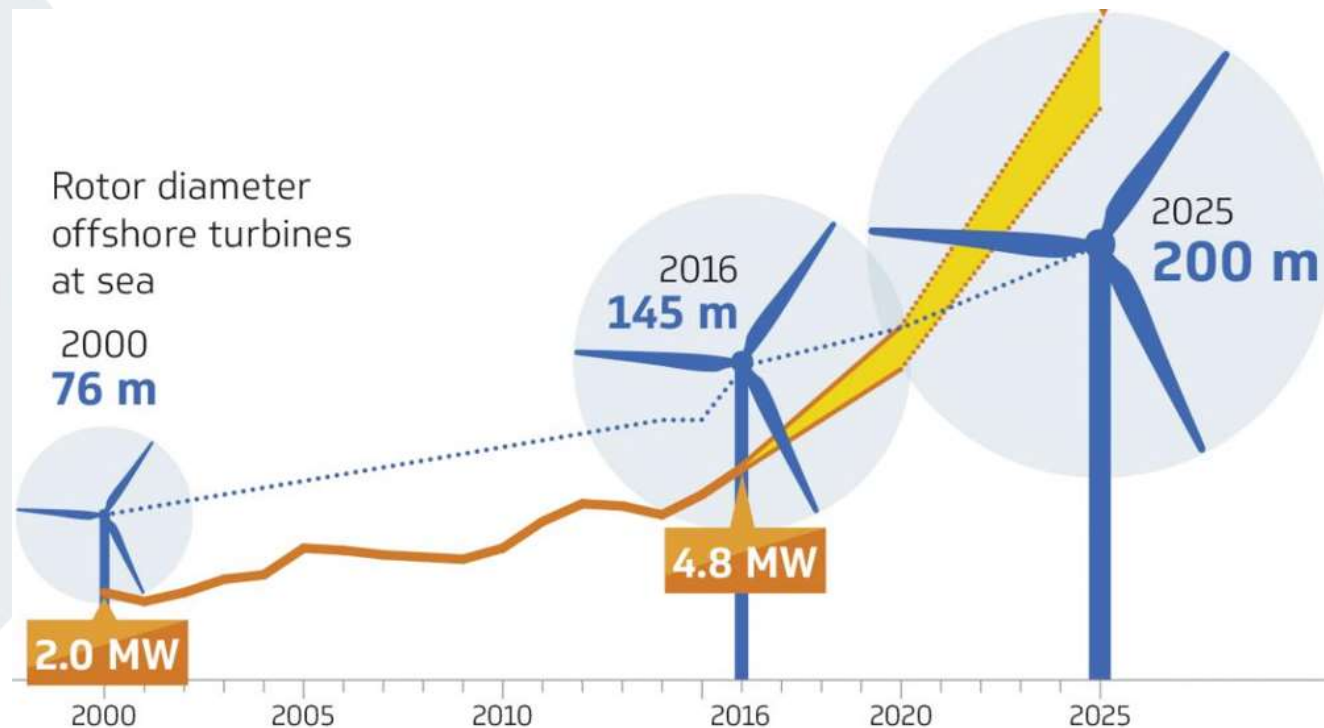


# Fixed and Floating

- Carbon Trust Floating Offshore Wind Joint Industry Project



# Scale



Average installed capacity of new wind turbines in Europe (in megawatts);  
Forecasts by manufacturers and operators up to 2025

Infographics: Ahnen&Enkel

# Policy Context

- Net Zero enshrined in law by UK and Scottish Governments
- Need to de-carbonise heat and transport through either:
  - Electrification
  - Hydrogen
- => Significantly more offshore wind!
- 75GW offshore wind by 2050...?!



# Conclusions

- Significant local, national and international opportunities – now and in future
- Cluster here to support you to take those
- Want your views on how we best do that



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## Thank You!

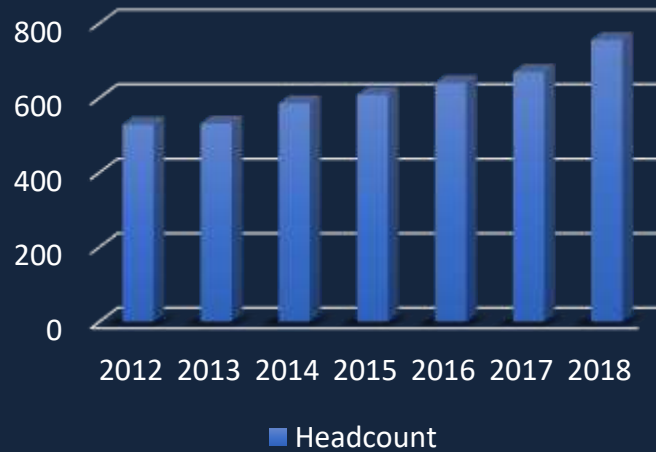
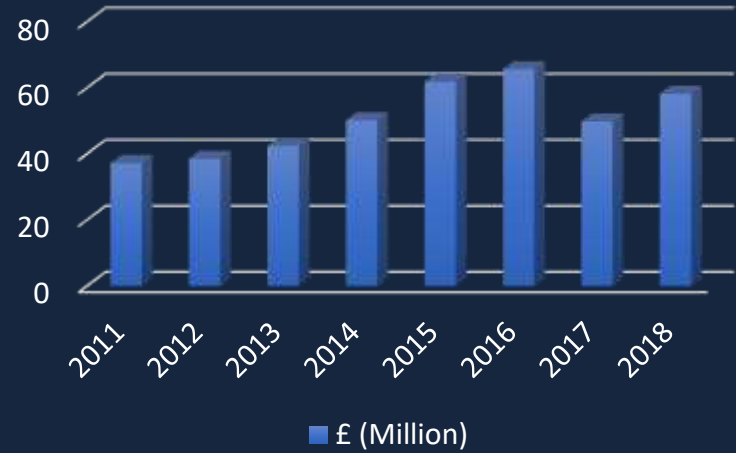
**BRIGGS SUBSEA**

**Forth & Tay Offshore Cluster**





## ABOUT US





FLEET



Kingdom of Fife



Cameron



Forth Joustler



Forth Guardsman



Forth Warrior



Forth Trojan



## OTHER SERVICES



- Marine Salvage
- Fuels & Infrastructure
- Environmental Consultancy & Pollution Response
- Oil & Gas Terminal Operations
- Aids to Navigation
- Vessel Management Services
- Marine Survey
- Diving

# CABLES & OFFSHORE WIND





# SUBSEA CABLES

- Project management
- Repair, maintenance and installation
- Shore-end installation
- PLGR
- Planning and permitting
- Route engineering
- UXO Survey
- Cable recovery
- Cable storage facilities
- Remedial operations



## SSEN FRAMEWORK

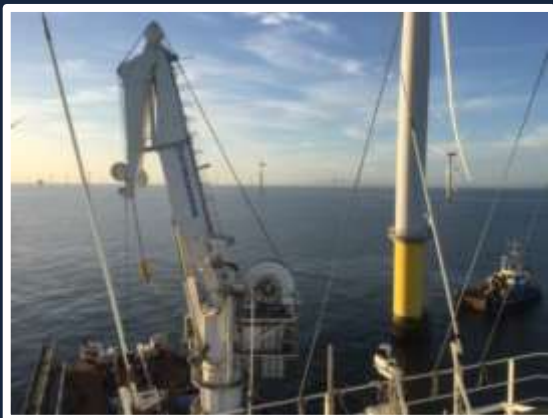


- 115 Cables
- 500 KM network
- 132kV
- 33kV
- 11kV
- XLPE, PILC & Oil Filled
- Shallow Water
- Shore end repairs



UK	Europe
Barrow	Borkum Riffgrund 1
Burbo Bank	Gode Wind 1
Burbo Extension	Gode Wind 2
Walney 1	Horns Rev 1
Walney 2	Horns Rev 2
Walney Extension	Vindeby
Gunfleet Sands	Nysted
Westermost Rough	Anholt
West of Duddon Sands	Middelgruden
Race Bank	
Hornsea 1&2	
LINCS	

# ØRSTED FRAMEWORK AGREEMENT





## DELIVERY EXPERIENCE

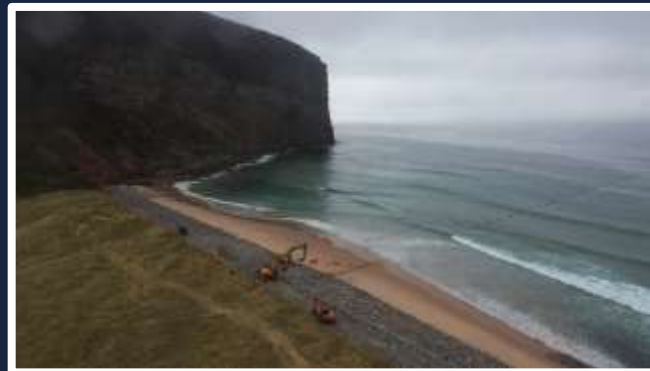
- SSEN Installations
- SSEN Repairs
- Cable protection works
- Ørsted framework
- Other cable works



# SUBSEA CABLE REPAIR

Island  
Interconnector

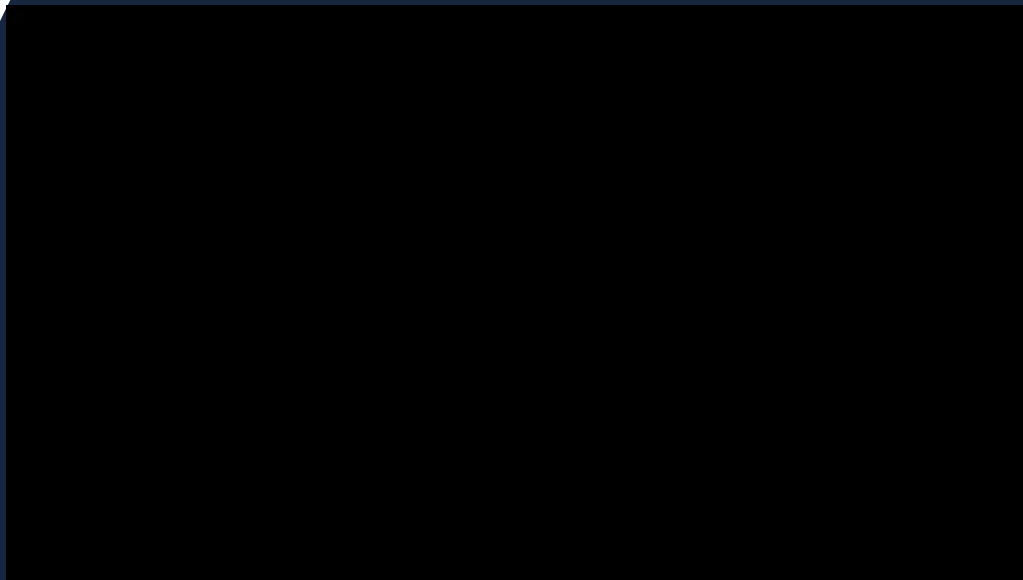
- **Island Interconnector**
- **Cable failure**
  - Fault location testing
  - Location – Weather/ Proximity
  - Rapid Mobilisation
  - Repair
  - Burial
  - As Built Survey



# CABLE STORAGE AND TRANSPORTATION

## Cable transportation experience

- Coiled cable
- Heavy lift drums
- Transpooling
  - Suspended powered quadrant operations
  - Carousel operations
  - Static tanks





# Sustainability

## Risks

- Empty Chairs
- Empty Tables
- Skills Crisis
- Fragility
- Short term build phase

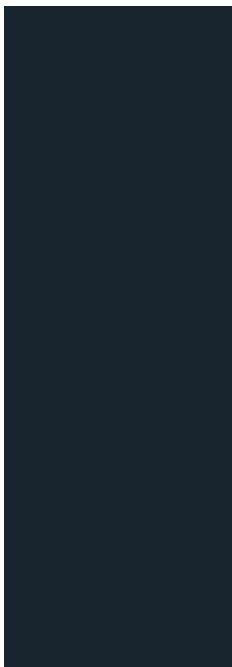
## Required Developments

- Grants / RSA Shakeup
- Skills placement
- Apprentice Scheme
- Local content
- Port Enhancements
- Engagement with Tier 1 contractors
- Engagement with Operators

## Opportunities

- Sustainable Long term Employment
- Local opportunity
- Marine Skill resurgence
- Innovation
- Cost reduction





# ORE Catapult supply chain programmes

18/09/2019

Andrew Tipping, Commercialisation Manager



## *Our Mission:*

*Accelerate the creation and growth of UK companies in the ORE sector*

- Reduce the cost of offshore renewable energy
- Deliver UK economic benefit



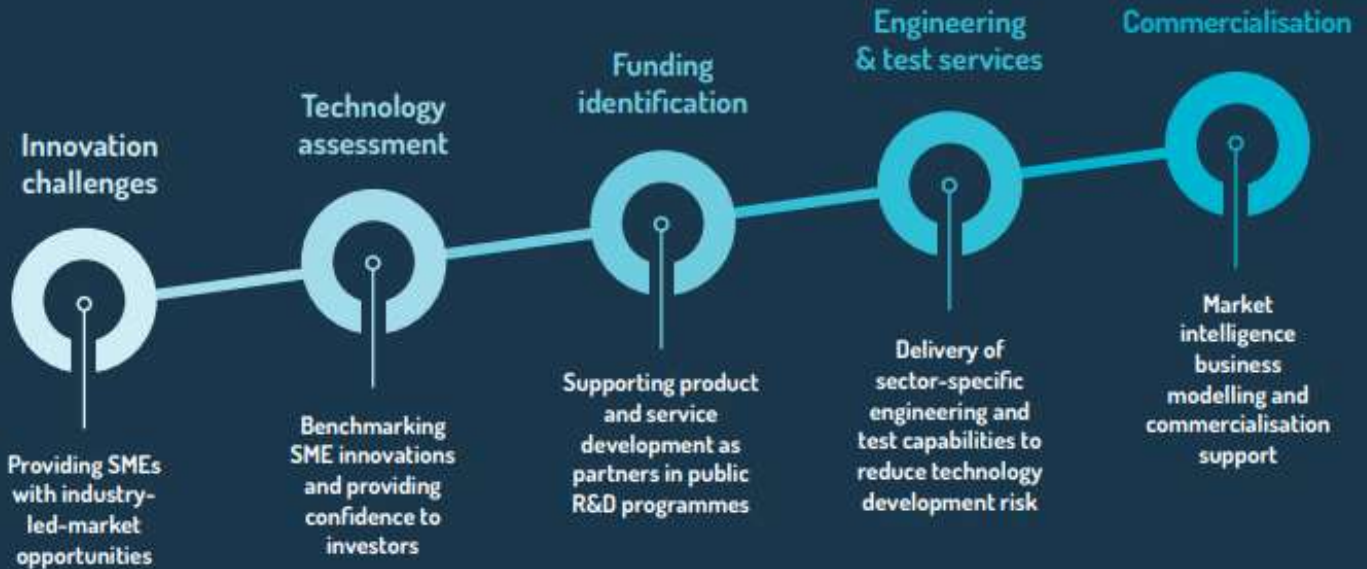
158  
SMEs

supported  
in 2018/19

597  
SMEs

supported  
since 2013

## Commercialising technology with SMEs







# Innovation support programmes



## Offshore wind technical issues

OEMs and utility companies have:

- Confidential engineering challenges to solve with no time to explore markets
- Low exposure to companies outside the offshore wind supply chain



A platform for  
solving industry  
challenges

## Technical solutions from other sectors

Solution providers find it difficult to:

- Find the right person within a target customer's organisation
- Prove the value proposition of products
- Understand customer's time constraints



From pitch



to

Windfarm

## Outcomes

- 11 Companies pitched
- 3 Demos planned at offshore farms
- 4 letters of support for investment
- 2 R&D project secured worth £1.66m with SPR and ORE Catapult as Partners
- 5 R&D projects under development



## Generator Pole Shoe Inspection and Tightening



The Robotics Innovation challenge competition, delivered in partnership with ORE Catapult and the Knowledge Transfer Network, is supporting GE to identify innovative solutions to innovation challenges. The generator pole shoe bolt connection on the GE Haliade-X units need to be inspected within an interval of 36 months after commissioning is complete. Companies are required to develop a semi or fully autonomous device that is capable to perform the inspection of the pole shoe connection.

31 days left



SELECT CHALLENGE

## Blade Inspections & Repairs



The Robotics Innovation challenge competition, delivered in partnership with ORE Catapult and the Knowledge Transfer Network, is supporting GE to identify innovative solutions to innovation challenges. The harsh environmental conditions that apply to an offshore wind turbine create the need for regular inspections, maintenance and repair of the blades and its subcomponents. GE seeks an inspection method that eases the job by eliminating human resource exposure to rope climbing.

31 days left



SELECT CHALLENGE

[www.ore.catapult.org.uk/work-with-us/smes/innovation-challenges](http://www.ore.catapult.org.uk/work-with-us/smes/innovation-challenges)

## Vattenfall – EOWDC (Aberdeen Bay)

- 11 turbine array 2.5km from beach (2 x 8.8MW & 9 x 8.4MW)
- Unique opportunity for UK Innovators to work with ORE Catapult to bring new technologies to the market through testing in a real-world environment
- Collaboration to advance cost reduction and improve safety in offshore wind.
- ORE Catapult submit innovation concepts for selection, demonstration and review annually
- As of 17<sup>th</sup> Sept, 8 technology demonstrations have been approved by Vattenfall and will go offshore over next few months. A further 34 new enquiries received.





**£10,000  
Prize Pot**

*"Provide an accurate wind farm Power Available (PA) measurement using data that is already available at operational wind farms"*

- Teams of up to six
- Any background: data, wind, researchers, businesses
- Registrations open till 18<sup>th</sup> October
- Opportunity to pitch technologies to ScottishPower Renewables

<https://ore.catapult.org.uk/stories/offshore-wind-hackathon/>



**CATAPULT**  
Offshore Renewable Energy

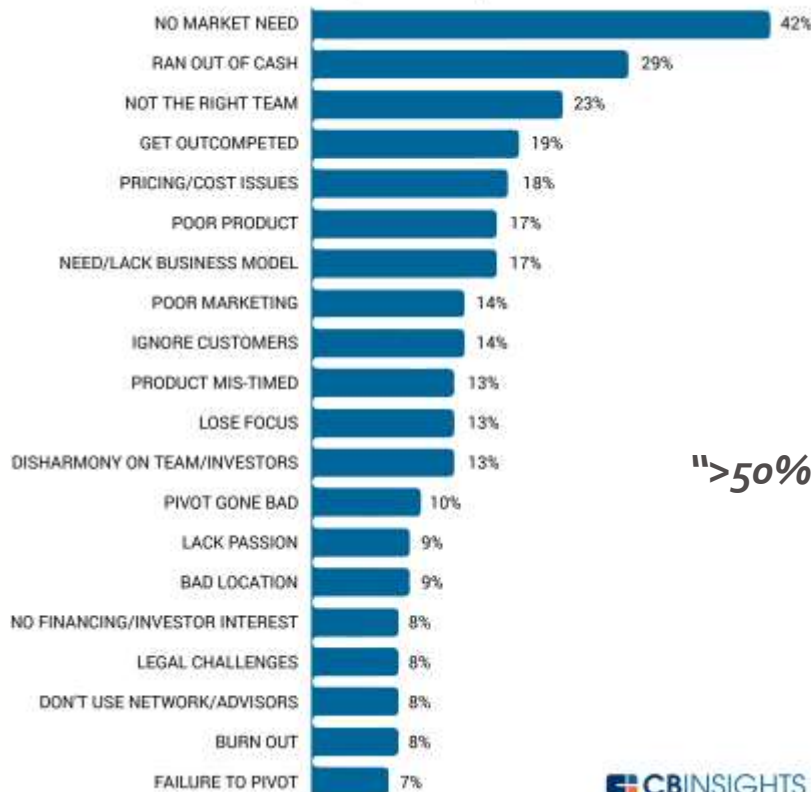
**LAUNCH  
ACADEMY**

## Intro to the Launch Academy



## THE TOP 20 REASONS STARTUPS FAIL

Based on an Analysis of 101 Startup Post-Mortems



*">50% of start ups fail in the first four years"*

# What is the Launch Academy

Filtering best solutions

Equipping for growth

New solutions entering the market

Outcomes



9 MONTH PROGRAMME



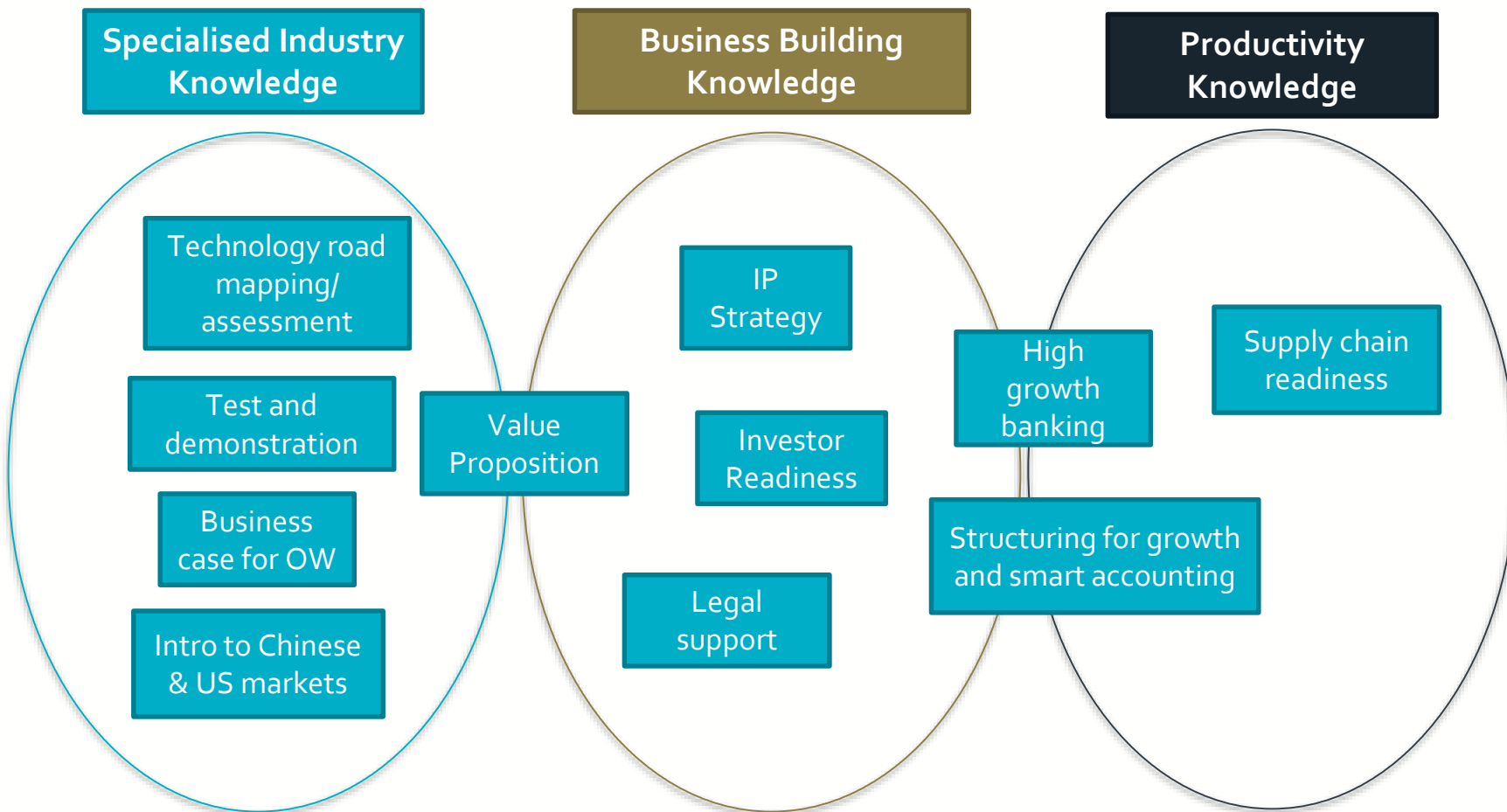
- ▶ COST REDUCTION
- ▶ INCREASED UK CONTENT
- ▶ UK ECONOMIC GROWTH
- ▶ ENHANCED UK SUPPLY CHAIN

Specialised Industry  
Knowledge

Business Building  
Knowledge

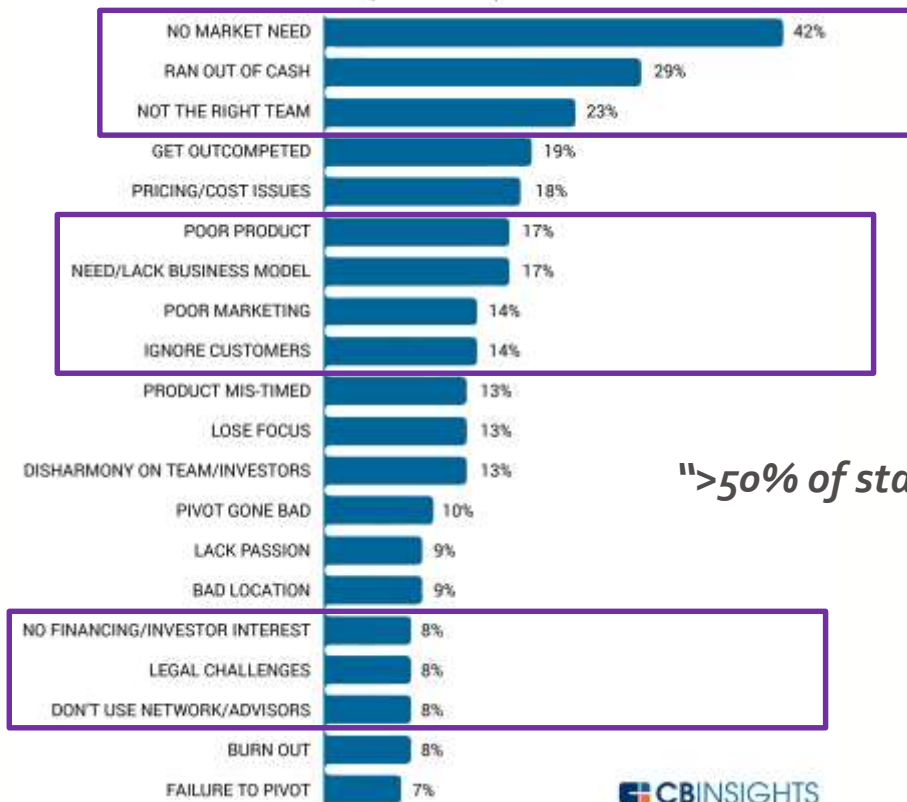
Productivity  
Knowledge





## THE TOP 20 REASONS STARTUPS FAIL

Based on an Analysis of 101 Startup Post-Mortems



*">50% of start ups fail in the first four years"*

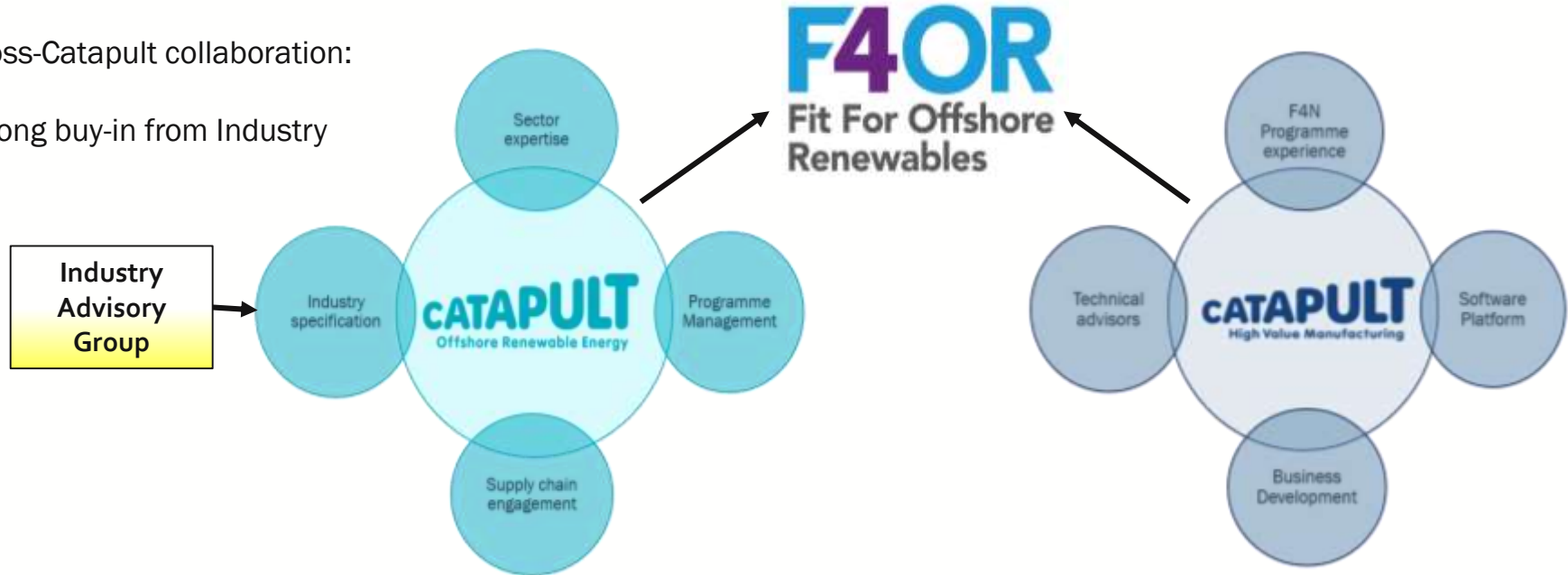


## Commercialisation Journey

- Innovation challenge winner
- Introduction to end users
- £250k i:UK grant secured with ORE Catapult as partner
- Trial at 7MW turbine
- Offshore trial with end user
- Joined ORE Catapult Gamechangers
- Introduction to Williams Foresight resulted in £2.1m investment



- The National F4OR programme is currently under development (building on the success of the Scottish Pilot)
- National Programme Launch is planned for Oct/Nov 2019
- Cross-Catapult collaboration:
- Strong buy-in from Industry





## OWGP Intro

Funded by  
**Offshore Wind  
Industry Council**

Delivered by  
**CATAPULT**  
Offshore Renewable Energy

# A long-term business transformation programme



## Objectives

Increased competitiveness of UK supply chain leading to:

- Increased UK content in UK projects.
- Increased exports to global markets.

## Funding

- OWIC (offshore wind developers) are funding OWGP.

## Delivery

Budget of £100m over ten years to provide:

- Analysis – strategic capability assessments
- Services – expert advisory services to supply chain
- Grants – for innovation and prototypes



# Targeting high growth potential companies

## Who?

- ✓ work in offshore wind sector
- ✓ create new sustainable jobs
- ✓ increase exports to global markets
- ✓ develop UK owned IP
- ✓ bring cross-sector skills and experience

## What?

- Support to participants through a series of interventions

## How?

- National programme with reach via clusters
- Engagement with OWIC members



# Four core strands of activity

Enhanced engagement between developers and supply chain.

**Developer-led activity**

A

**Collaborating for Growth**

**Business Competitiveness**

An intensive structured business improvement programme.

B

Increasing the breadth of the UK supply chain by attracting cross-sector companies.

C

**Building New Capacity**

**Supply Chain Futures**

Developing growth based on new UK intellectual property.

D

## Business Competitiveness

- **Target:** Innovation in manufacturing/fabrication
- **Objective 1:** Encourage companies to explore new ways of working
- **Objective 2:** Build ecosystem of delivery partners
- **Delivery:** Access to manufacturing advisory services\*

## Supply Chain Futures

- **Target:** Next generation products and services
- **Objective 1:** Enable technology development planning
- **Objective 2:** Engage with developers and Tier 1s at early stage
- **Delivery:** Grant funding for feasibility studies







## Strategic Capability Assessment

- Identifying strong growth areas
- Capability
- Capacity
- Competitiveness
- Market attractiveness



Leading to roadmap to 60% UK content

Foundations	Turbine	O&M	Installation
			
June '19 to October '19	Nov '19 to June '20		

# Contact us

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Leven  
KY8 3RS

T +44 (0)1670 359 555



## HULL

O&M Centre of Excellence  
Ergo Centre  
Bridgehead Business Park  
Meadow Road, Hessle  
HU13 0GD





# Support for the supply chain

Isla Robb  
Scottish Enterprise



# Scottish Enterprise offshore wind support



- **Supply Chain Workshops** - Exploring specific supply chain opportunities
- **Meet the Buyer Events** - Tailored events with leading OEMs and developers
- **Technical Solutions Workshops** - Sessions focussing on specific industry challenges and potential solutions
- **Supply Chain Database**



- **Energy Markets Expert Support Programme** - Up to two days of FREE one-to-one support on market and technology appraisal, plus 4 days 50% funded
  - Offshore wind
  - Heat
  - Water
  - Energy Systems
  - O&G decomm
  - Nuclear decomm
  - Low carbon Transport



- **Energy Skills Scotland** – Encouraging talent into the energy sector (£6.5 million)
- **Low Carbon Skills Fund** – specific training (50% funding training for small businesses)

# Scottish Development International

Trade Team



**Overseas staff**  
in **30+** offices  
in **23**  
countries,  
providing  
trade support  
to companies  
identifying  
trade  
development  
opportunities



**Trade specialists**  
in Scotland  
providing 1-2-1  
support and  
strategic  
challenge to  
companies in  
key sector  
portfolios

# Scottish Development International












## SDI can support with...

- Market Awareness Events
- International Strategy Workshops
- Skills / Knowledge / Training
- Market Research Service
- Business Opportunity Identification
- Partner Identification / Due Diligence
- Market Entry Support
- Exhibitions, Missions, Learning Journeys
- Political Support
- In-country assistance via SDI / Partners
- International Grants



# ENERGY ACTIVITY PLAN

July		Angola Mission (with EIC and DIT)	Ian Ross ANGOLA	<a href="mailto:ian.ross@scotent.co.uk">ian.ross@scotent.co.uk</a> 0141 468 5506
Sep		Offshore Europe Aberdeen	Denise Addie SCOTLAND	<a href="mailto:denise.addie@scotent.co.uk">denise.addie@scotent.co.uk</a> 0141 468 5298
		Nuclear Decommissioning Japan (with DIT)	TBC JAPAN	<a href="mailto:edward.friel@scotent.co.uk">edward.friel@scotent.co.uk</a> 0141 468 5992
		Nigeria/ Ghana Mission	Ian Ross NIGERIA	<a href="mailto:ian.ross@scotent.co.uk">ian.ross@scotent.co.uk</a> 0141 468 5506
Oct		Asia Offshore Wind Taiwan (with DIT)	TBC TAIWAN	<a href="mailto:edward.friel@scotent.co.uk">edward.friel@scotent.co.uk</a> 0141 468 5321
		East Africa mission (showcase in hotel)	Ian Ross MOZAMBIQUE	<a href="mailto:ian.ross@scotent.co.uk">ian.ross@scotent.co.uk</a> 0141 468 5506
		Mission to AWEA and key US offshore wind states (with partner)	John McGinnes USA	<a href="mailto:john.mcginnes@scotent.co.uk">john.mcginnes@scotent.co.uk</a> 0141 468 5618
		Offshore Technology Days Show (with DIT)	Phil Stirling NORWAY	<a href="mailto:phil.stirling@scotent.co.uk">phil.stirling@scotent.co.uk</a> 0141 468 6009
		China Wind Power Expo (with Renewable UK)	TBC CHINA	<a href="mailto:edward.friel@scotent.co.uk">edward.friel@scotent.co.uk</a> 0141 468 5321
		OTC Brazil (with DIT)	Marion Murray BRAZIL	<a href="mailto:marion.murray@scotent.co.uk">marion.murray@scotent.co.uk</a> 0141 468 5865

Nov



**Offshore Wind Europe  
Copenhagen (With Renewable  
UK)**



**Africa Oil Week Capetown**



**ADIPEC Exhibition (with EIC)**

Jan



**Guyana (DITled)**

Feb



**India Petrotech (with DIT led  
by EIC)**



**EGYPT**



**Mexico Mission (DITled)**



**Wind Energy Expo (with EIC)**

Mar



**Brazil Mission (DITled)**



**CHINACIPPE (led by partners)**



**Australia Oil and Gas  
(with EIC)**



**Energy Systems Mission  
to California (TBC)**



**Algeria Trade Mission**

**Adam Swainbank  
DENMARK**

**Ian Ross  
SOUTH AFRICA**

**Hadi Fawzy  
ABU DHABI**

**Marion Murray  
GUYANA**

**TBC  
INDIA**

**Hadi Fawzy  
EGYPT**

**Marion Murray  
MEXICO**

**TBC  
JAPAN**

**Marion Murray  
BRAZIL**

**Ian Ross  
CHINA**

**TBC  
AUSTRALIA**

**John McGinnes  
USA**

**Hadi Fawzy  
ALGERIA**

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# Support



## **Scottish Investment Bank**

helps SMEs access finance and invests alongside private sector partners from across the globe

**£500 million** to support the adoption of low carbon heating and energy efficiency measures (EESP)



**R&D Grant** supports

**Patent Box** reduces corporation tax on patents

**R&D Tax Credits** for new products and services



**£20 million** for innovative energy projects (EIF)

**RSA** for creating jobs in specific locations

**£29M** to date for 77 wave energy projects (WES)

**£60 million** for low carbon infrastructure (LCITP)



# Business Support



- **Brexit support service** with PrepareForBrexit.scot has excellent resources and toolkit.
- Between £2,000 to £4,000 funding to help you manage a wide range of Brexit impacts to plan and prepare for withdrawal.

More information here: <https://www.prepareforbrexit.scot/updates/brexit-support-grant>



- **Scottish Cyber Voucher** – Scotland based SME's can apply for vouchers worth up to £1000 to achieve Cyber Essentials certification.

More information: <https://cyberessentials.online/>



- **Digital Development Loan** – between £5000 - £50000 interest free loan to improve digital capability. For example it can be used for cyber security, data analytics, software engineering and digital skills development.

More information here: <https://www.scottish-enterprise.com/support-for-businesses/funding-and-grants/growing-your-business/digital-development-loan>

# Floating Wind Technology Acceleration Competition

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**£1m**

Scottish Gov't  
Grant Funding

**3-7**

TRL eligible

**£250k**

Max. grant per  
project

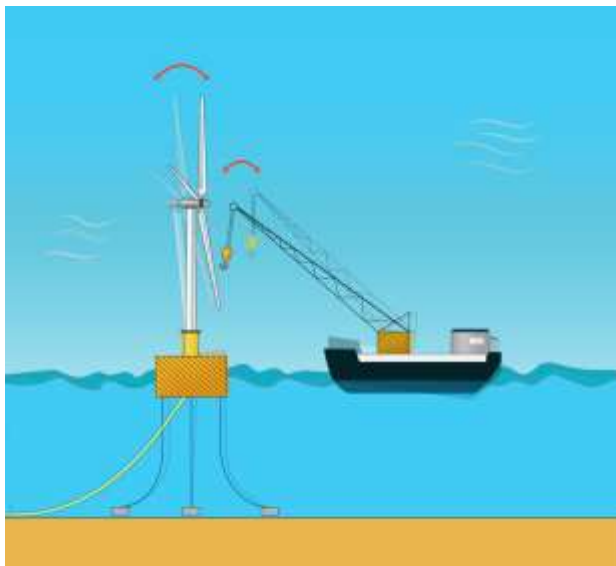
**12-14  
months**

Project  
duration

- Objective is to support the development of technologies which will accelerate the deployment of floating offshore wind in Scotland.
- Project is supported by the Floating Wind JIP: 14 leading offshore wind developers & Carbon Trust, supported by Scottish Government.
- Looking to address four main challenges but also open to other technology ideas under 'Miscellaneous' category.

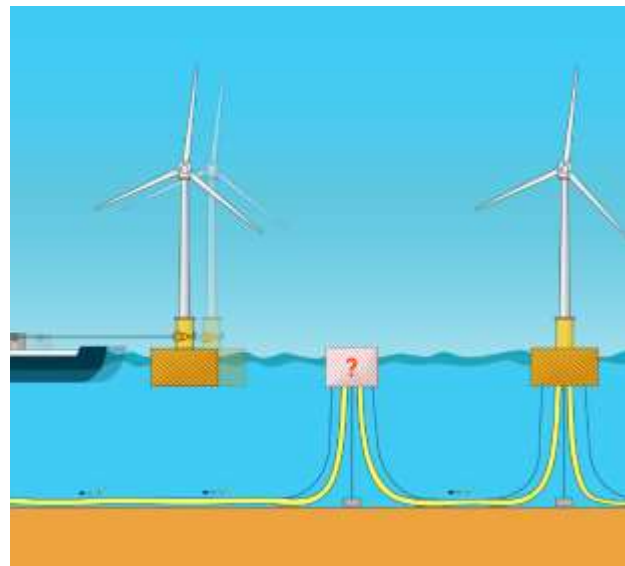
# Floating Wind Technology Acceleration Competition

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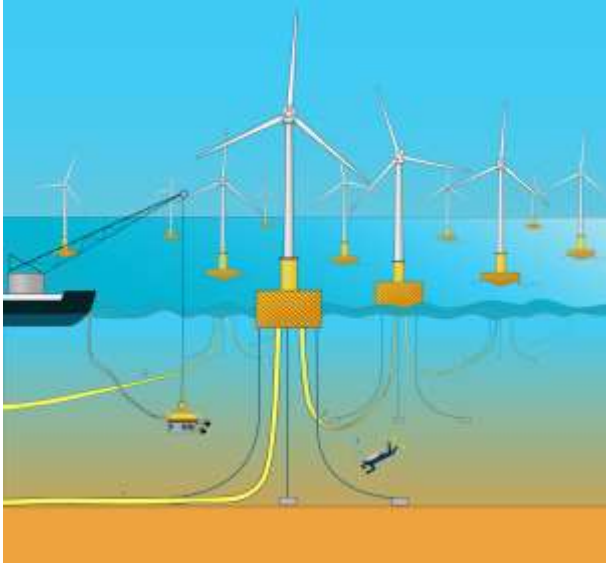
1. Safe and cost-effective exchange of large turbine components offshore

2. Safe and cost-effective disconnection and re-connection of offshore foundation structures



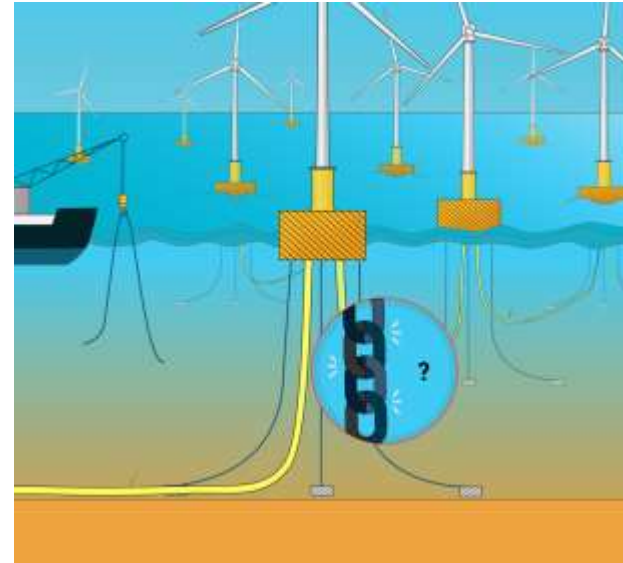


# Floating Wind Technology Acceleration Competition



3. Cost-effective monitoring and inspection of large numbers of mooring lines, cables and foundation structures

4. Cost effective manufacturing, installation and maintenance of mooring lines and anchors



# Floating Wind Technology Acceleration Competition

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- Deadline for Applications is 09:00 on **Tuesday 5<sup>th</sup> November**
- Shortlisted applications will be invited to present to Floating Wind JIP Developers in London between **3<sup>rd</sup> and 5<sup>th</sup> December**
- Successful projects will be expected to start by early January 2020 and be completed by end January 2021.
- For further information and to apply please visit:  
<https://www.carbontrust.com/about-us/tenders/floating-wind-technology-acceleration-competition/>
- Please send any questions to [floatingwind@carbontrust.com](mailto:floatingwind@carbontrust.com)

Offshore Renewable Energy Catapult

PNDC

ETP

National HVDC Centre

NSRI

Edinburgh centre for Robotics

Renewable Engine



**ORCA HUB**  
Offshore Robotics for Certification of Assets  
Remote Safety and Integrity



# Questions...

- Questions, questions, questions.....

- Answers, answers answers....

# Thank you

