

BUSINESS BREAKFASTS

North Queensferry • Musselburgh • Dundee • Aberdeen





Powering Scotland's East Coast

BUSINESS BREAKFASTS

North Queensferry • Musselburgh • Dundee • Aberdeen

Isla Robb Offshore Wind Specialist – Scottish Enterprise Friday 27th September 2019





HOUSEKEEPING

- Fire Alarms
- If the Fire Alarms do 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

BUSINESS BREAKFASTS



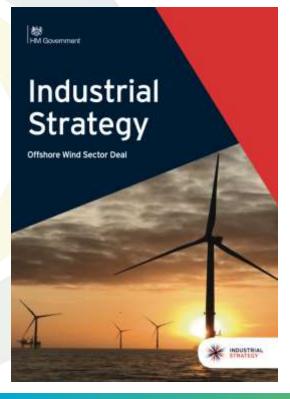
PROGRAMME

08:00	Registration

- 08:45 Welcome
- 08:50 Forth and Tay Offshore Intro
- 09:00 Offshore Wind Industry Update
- 09:20 Business Perspectives
- 09:40 Offshore Renewable Energy Catapult
- 09:55 Floating Offshore Wind Competition
- **10:05** Services to Support your Business
- 10:25 Q & A
- 10:40 Closing Remarks
- 10:45 Networking
- 11:15 Close

Isla Robb, Scottish Enterprise Niall Stuart, Red Rock Power Robert Ledingham, Survitec Hugh Riddell, OREC Dan Kyle Spearman, Carbon Trust Isla Robb, Scottish Enterprise Isla Robb

Why a Cluster approach to Offshore Wind?



Delivering Prosperity and Productivity in Coastal Areas through **Clean Growth** E2 Alternativella 27,205 shilles Aports increase to electricity costs marked to 12 days 11126 No companyou NAME AND ADDRESS OF Cutting origit inmovation A globally leading supply chain Attornable clean growth Creating a highly skilled workforce niesforming coestal community haintaining the UIC's leadership effahore wind with: continued cost reduction effortable clean energy to mee 13 of UK's electricity needs. revitatiand coastal community Delivering 38GW of an export-led innovative supply offstance initial



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

Powering Scotland's East Coast

Cluster Approach – Why Forth & Tay?

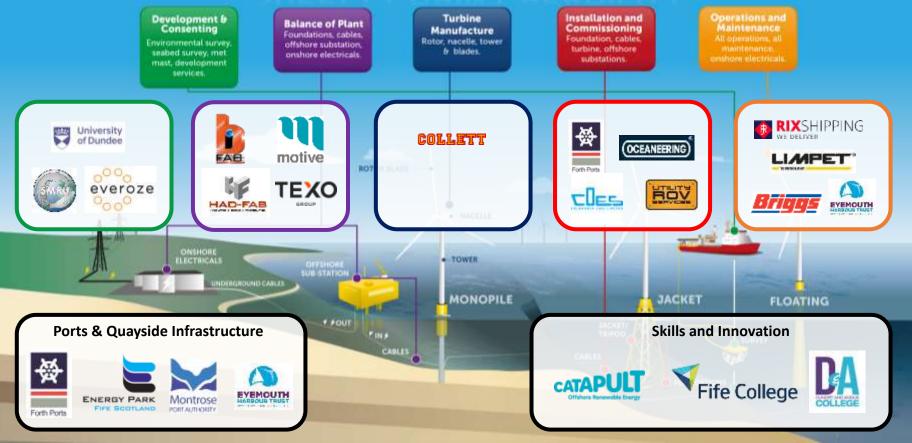


- 1 of 2 Clusters agreed in Scotland (8 in UK)
- c3.75GW capacity by 2030 (12% of UK capacity) / 2GW consented / 450MW moving into construction
- Playbook Established capability Balance of Plant (cabling, foundations and substations), Operations, Maintenance & Service and Skills (including R & D and 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





SUPPLY CHAIN CAPABILITY



Forth & Tay Offshore: Steering Group













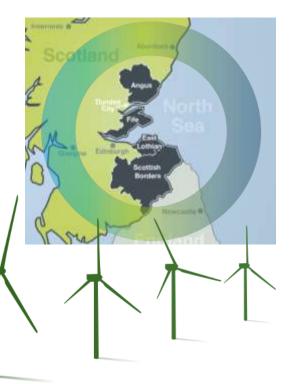
Our cluster is not geographically exclusive, as we take in key areas across the central belt, covering developers and innovative institutions ensuring all parts of the industry are represented; playing a part in advancing the sector for Scotland.

• <u>Promote</u> the regional supply chain to prospective customers in the

Our Aims

- Offshore Wind Sector and <u>develop</u> collaborative working across the industry
- <u>Promoting</u> the area as a destination of choice for new investments in the UK offshore energy supply chain
- Work with our world renowned colleges and universities to deliver <u>innovative</u> new solutions within the sector, while continuing to develop and promote the skills required to meet the sector's needs
- <u>Invest</u> in infrastructure investment which will enhance 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

FORTH & TAY

DeepWind

SCOTLAND GLOBAL OFFSHORE WIND SUPPLY CHAIN

STAND 163

DIN US AT

Promoting Supply Chain Capability







Why should my business get involved?



- Information and updates on local, national & international offshore wind industry including contract and funding opportunities and support services
- 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

WORKING WITH AND FOR YOU. The more you put in, the more you get out







Forth and Tay Offshore Roadshow













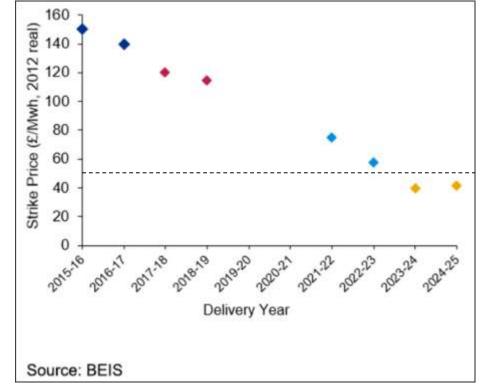


UK - 2019

- 9.3GW across UK
- 7,200 direct jobs
- On track to generate 10% of UK electricity next year
- Major part of energy sector
- 3.5GW in construction/pre-construction to come <2023
- Contract for Difference Allocation Round 3 Sept 2019
 - 5.5GW to be delivered 2023 2025
 - Strike prices of £39.65 & £41.61



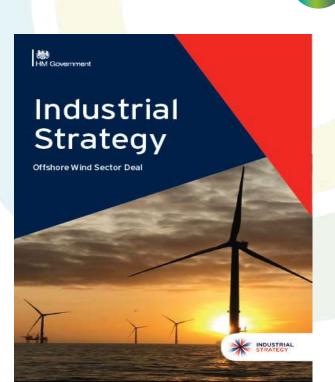
CfD Prices



Powering Scotland's East Coast

Offshore Wind Sector Deal

- Bi-annual Contract for Difference rounds – delivery of 1-2GW pa
- By 2030:
 - 30GW in operation = 30% UK power needs
 - £40bn invested (~£2bn/GW)
 - 60 per cent UK content
 - 30% women in workforce
 - Increase exports x5 to £2.6bn
- Supply Chain
 - £100m growth fund
 - Clusters



FORTH & TAY OFFSHORE



Powering Scotland's East Coast

Scotland



- Strong government support
- Home to leading national and international developers
- Key elements of supply chain in subsea, legal, financial, manufacture
- Flagship projects:
 - Robin Rigg (E.ON) 180MW 2010
 - EOWDC (Vattenfall) 93MW 2018
 - Hywind 2 Floating Demonstrator (Equinor) 30MW 2018
 - Beatrice (SSE/RRP) 588MW 2019

Projects in Development

Kincardine (KOWL)



Developer: KOWL

Capacity: 50MW (6 turbines)

Status: Site prep / Component manufacturing / Post-FiD

Turbine ~ MVOW (9.5MW)

Foundations ~ Navantia (Floating)

Array cables: Prysmian; Export cables: Prysmian

Forecast online: 2020

Moray East (EDPR and Engie))



Capacity: 950MW (100 turbines) Status: In construction Turbine ~ MVOW (9.5MW) Foundations ~ Geosea (Jackets) Array cables: Boskalis; Export cables: NKT Substation: Siemens / Smulders

Forecast online: 2022

Neart na Gaoithe)



FORTH & TAY OFFSHORE

Developer: EDF Renewables Capacity: 450MW (max 54 turbines) Forecast online: 2023

Consented Projects



Moray West



Developer: EDP Renewables

Capacity: 800MW (max 85 turbines)

Forecast online: TBC (unsuccessful in 2019 CfD round) Inch Cape



Developer: Red Rock Power

Capacity: max 72 turbines

Forecast online: TBC (unsuccessful in 2019 CfD round)

Seagreen A&B



Developer: SSE

Capacity: ~1,500 MW

Status: CfD for 454MW secured in 2019 allocation

Forecast online: 2024/5

Further Information

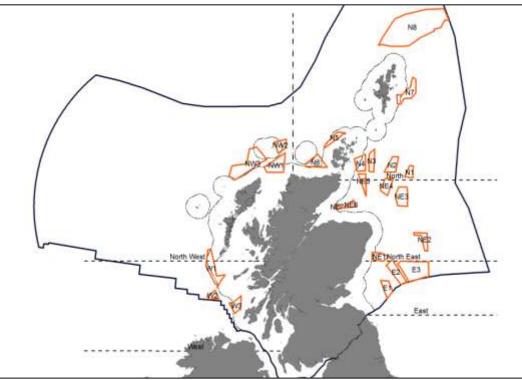


- Sign up to Cluster for:
 - Events updates
 - Project updates
- Complete surveys to be on cluster and Scottish Enterprise databases
- Contact Tier 1's
- Project websites:
 - <u>https://www.seagreenwindenergy.com/</u>
 - <u>https://nngoffshorewind.com/</u>
 - <u>http://www.inchcapewind.com/contact</u>



ScotWind and Round 4





Powering Scotland's East Coast

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...?!



Summary

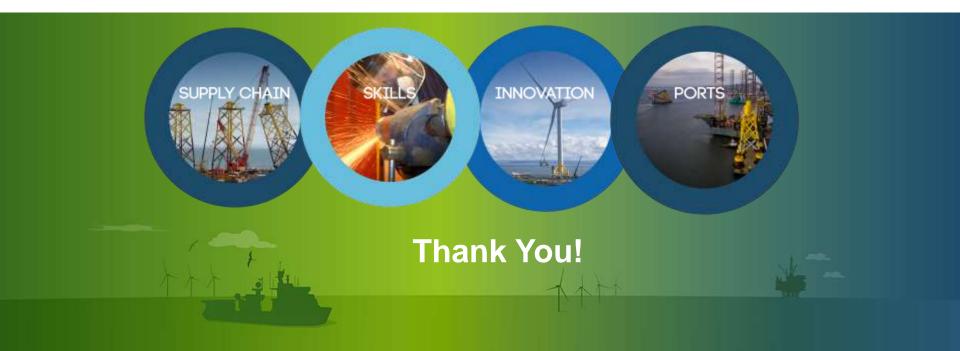


• UK

Scotland

Next Chapter







An Insight from Industry

Robert Ledingham

OUR VISION To be the World Leader in Critical Safety and Survival Solutions for customers in the Marine, Offshore, Defence, Aviation and Renewable Energy markets



SUPPORT ACROSS ALL OPERATIONS



SUMMARY OF PROJECT INVOLVEMENT

• Lifejackets and Transfer Suits

- London Array
- Galloper
- Hornsea 1
- Dudgeon
- Hywind Scotland
- Height Safety and Tooling
 - Sheringham Shoal
- Lifejackets and MRT AU10 (PLB)
 - Gemini The Netherlands
 - Veja Mate Germany
- McMurdo Fastfind 220 (PLB)
 - Riffund
 - Aberdeen Bay
 - Rampion
 - Walney





PATHWAY INTO THE INDUSTRY

- Identified a gap in critical safety equipment provision specific to the wind market
 - Gen.2 immersion suit.
 - Suitable for aviation and marine transfer and constant wear applications.
 - Bespoke to the wind industry.
- Reviewed the Survitec wind energy business to date
 - Identified that we only accounted for 2% of the addressable market for immersion suits in 2017-2018.
 - Global Key Account manager to offshore wind appointed.
 - Global strategy to be reorganised to address all energy opportunities.
 - Aberdeen base is to become Survitec's centre of excellence for wind energy.
- Attendance at events (growing our profile)
 - Workshops
 - Supply chain events
 - Lunch and learns with customers
 - Demonstration days (strength of products), Heli PPE for Horsea 1





OPPORTUNITIES

- Multiple offshore windfarms in the UK, each requiring bespoke solutions to their environmental and operational needs.
- Young industry where there are still gaps in specialised and bespoke solutions
 - Current solutions are available but not used.
 - New solutions need to be devised.

Example: The Evacuator

• Fireproof collective evacuation device







CHALLENGES

- Operator dependency on content local to head quarters and existing supply chain.
- Differing working standards between operators, with no set legislation like we see in the oil and gas world
- Made quick ground with individual windfarms, but the real challenge has been the overarching energy majors.
- Ambiguity of local content statement.





FORTH AND TAY CLUSTER

- Survitec has offices around Scotland.
- Promote local content and people.
- Share learning between members.
- Keep up-to-date with available support services.
- Creation of jobs and keeping them here.

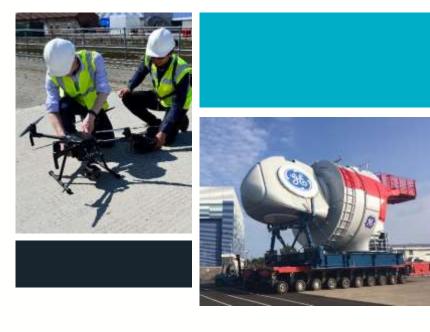












27/9/19



Forth and Tay Offshore Wind Briefing Event

CATAPULT Offshore Renewable Energy

Hugh Riddell, Regional Partnership Manger

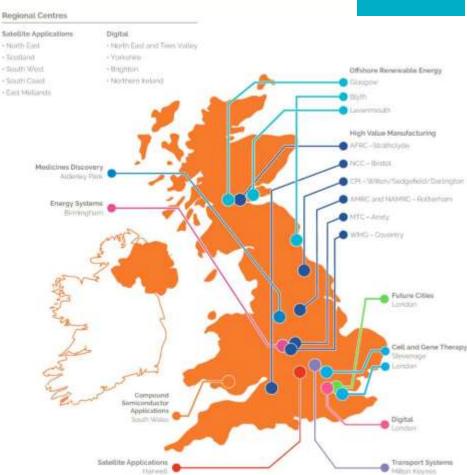
The Catapult Network



Innovate UK

Designed to transform the UK's capability for innovation

Core grant leveraged with industry and other public funding





Our mission

To accelerate the creation and growth of UK companies in the ORE sector

Our vision

By 2023, ORE Catapult will be the world's leading offshore renewables technology centre

Centres of Excellence

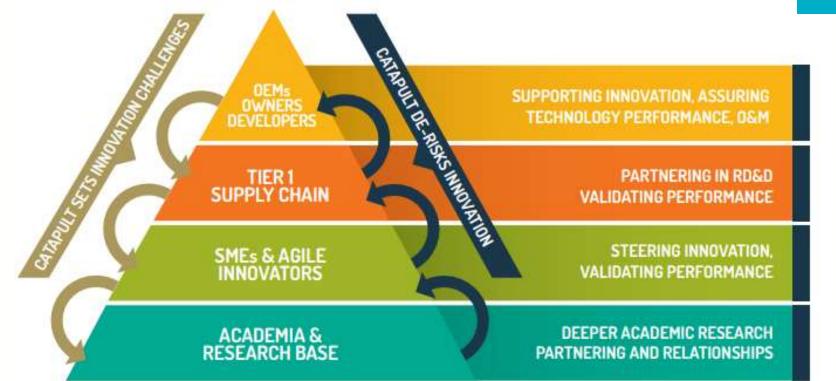
• Academic Research Hubs in partnership with leading universities

• Expanding our assets in Blyth and Levenmouth the world's foremost open-access facilities



The Role of ORE Catapult





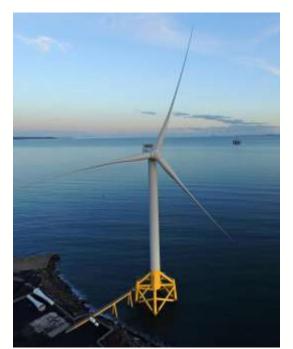
OPERATING £1/4BN OF WORLD-LEADING TEST AND DEMONSTRATION FACILITIES IN SUPPORT OF UK INNOVATION

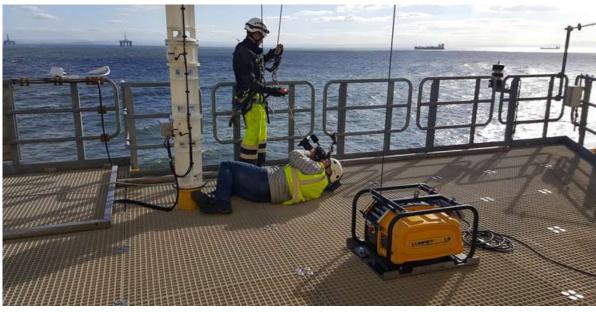
Impact Stats 18/19





- The largest open access demonstration turbine in the world
- SME technology demonstration access to Levenmouth offshore wind turbine to prove and commercialise innovative new sensing technologies.
- SMEs, such as Limpet Technology, gain access to a full-scale operational turbine





Limpet Technology Demonstration

Test & Validation - Blyth





BLADES

- Test & validate next generation 100m+ offshore wind turbine blades
- Develop and test innovative solutions for rain erosion (e.q. composite materials)
- Accelerate innovative blade designs and materials

FACILITIES: 100m and 50m Blade Test Halls Blade Erosion Test Rig Wind Turbine Blade Test Facility



- Test & validate next generation 10MW+ offshore wind turbine powertrains
- Accelerate innovative powertrain technology, from Sub-1MW to 3MW
- Support development of critical powertrain components: bearings, gearbox, generator

FACILITIES: 1MW, 3MW, 15MW Powertrain Facilities Wind Turbine Bearing Test Facility

Test & Validation - Blyth





ELECTRICAL INFRASTRUCTURE

- Test & validate the market's largest cables 66kV through ageing, insulation breakdown and failure analysis
- Dynamic cable fatigue testing for the future development of floating wind

FACILITIES: HV and Materials Labs Pre-qualification bays Dynamic cable rig

O&MTECHNOLOGYTEST & VALIDATION

- Test robotics & autonomous systems (RAS) using controlled subsea dock environment, training tower (drones) and blades (blade inspection)
- Wet and dry controlled dock environment testing:
 - Cable inspection, protection and connection systems
 - Subsea & topside balance of plant

FACILITIES: Subsea docks Training tower Blade sections



The Four 'Pillars' of Operational Performance

Robotics and Autonomous Systems	Data and Digitalisation	Balance of Plant	Operation and Maintenance		
Technology Innovation Test Facilities Validation Methods R&D Cluster Working Groups	Digital Twins Big Data Data Pilots BIM SPARTA WEBS	Asset Integrity Management Manufacture & Installation Optimisation Fixed & Floating Cables & HVDC Transmission	O&M Centre of Excellence Health & Safety Monitor and IMR Logistics & Planning Vessel Communications & Marine Coordination		
X-Industry Initiatives – Oil and Gas / Defence					
Supply Chain Programs F4OR Commercial Readiness Initiatives					

Aberdeen Bay Project



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



Technology demonstrations approved by Vattenfall



ORE Catapult Power Available Hackathon







"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 18th October
- Opportunity to pitch technologies to ScottishPower Renewables

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



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

OWiX – Impact and get involved



TURBINES

Developing the next generation of offshore wind turbines, incorporating all the technology that forms the structural and operational elements of the wind turbine generator.



SUBSTRUCTURES

Innovations in fixed and floating wind turbine foundations and substructures, including transition pieces.



ELECTRICAL INFRASTRUCTURE

Moving to next generation electrical infrastructure including array cabling, power fransmission, grid integration, and onshore & offshore substations.

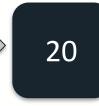


O&M AND WINDFARM LIFECYCLE

Optimising and future-proofing all services associated with offlithore wind, including site development, installation, wind farm QRM, condition monitoring, and decommissioning.

69

Applications across seven challenges in two competitions



UK Companies given the opportunity to pitch their ideas to and OEM and utility company



Companies progressing with demonstration projects with OEM and utility company (further two pending)

5

Businesses now developing technology funding applications (four with ORE Catapult)

https://offshorewindinnovationhub.com/getinvolved/

Current Challenges: GE Robotics Challenge



CATAPULTS



KTN iX Challenge: Generator Pole Shoe Inspection and Tightening

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.



KTN iX Challenge: Blade Inspections & Repairs

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.

VIEW >



Lightning Protection System Inspection

Develop an innovative, cost-effective solution for inspecting blade lightning protection systems.

VIEW >



https://ore.catapult.org.uk/work-with-us/smes/innovation-challenges/

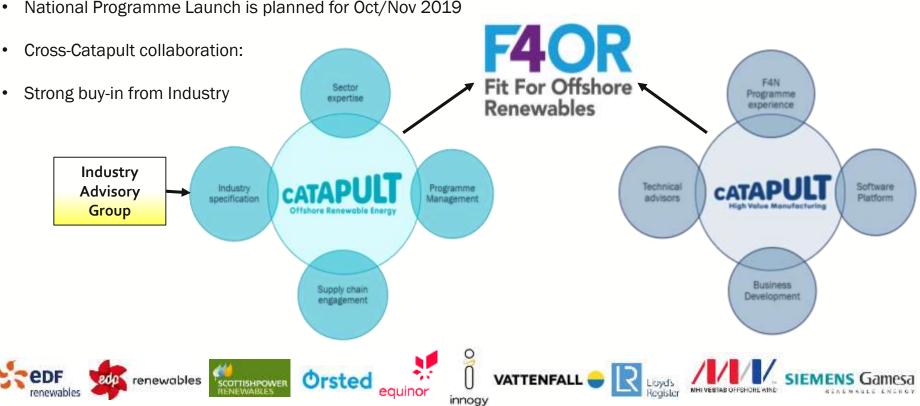






The National F4OR programme is currently under development (building on the success of the Scottish Pilot)

CATA



National Programme Launch is planned for Oct/Nov 2019 ٠

Offshore Wind Growth Partnership (OWGP)

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

Funded by









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





B D Pilot calls launch in October 2019



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

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

Contact us

GLASGOW

Inovo 121 George Street Glasgow G1 1RD

BLYTH

National Renewable Energy Centre Offshore House Albert Street Blyth, Northumberland NE24 1LZ

LEVENMOUTH

Fife Renewables Innovation Centre (FRIC) Ajax Way Leven KY8 3RS

HULL

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

Aberdeen

Subsea UK Building 30 Abercrombie Court Arnhall Business Park Prospect Road Westhill, Aberdeenshire AB32 6FE

T +44 (0)333 004 1400 T +44 (0)1670 359 555

T +44 (0)1670 359 555













ore.catapult.org.uk



Floating Wind Technology Accelerator

Dan Kyle Spearman Carbon Trust

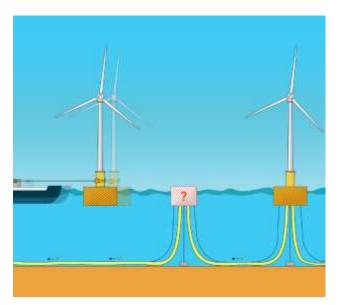


- Objective is to support the development of technologies which will accelerate the deployment of floating offshore wind in Scotland.
- Project is supported by the Floating Wind JIP: 14 leading offshore wind developers & Carbon Trust, supported by Scottish Government.
- Looking to address four main challenges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





1. Safe and cost-effective exchange of large turbine components offshore 2. Safe and cost-effective disconnection and re-connection of offshore foundation structures

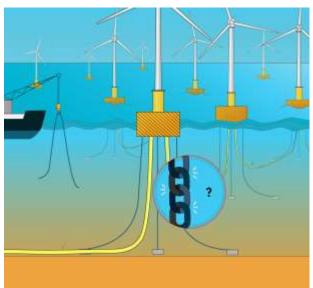






3. Cost-effective monitoring and inspection of large numbers of mooring lines, cables and foundation structures.

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



- Deadline for Applications is 09:00 on **Tuesday 5th November**
- Shortlisted applications will be invited to present to Floating Wind JIP Developers in London between 3rd and 5th 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: <u>https://www.carbontrust.com/about-us/tenders/floating-wind-</u> <u>technology-acceleration-competition/</u>
- Please send any questions to <u>floatingwind@carbontrust.com</u>





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



- 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



•Supply Chain Database







Oil, Gas & Energy

27 September 2019

Colin McHardy Diversification Manager: Oil, Gas & Energy Tel: 01224 061100



FOOD, DRINK & AGRICULTURE LIFE SCIENCES ENTREPRENEURSHIP TOURISM GAS & ENERGY



OPPORTUNITY NORTH EAST

Oil, Gas & Energy

- Establishing a leading position within energy transition - focus on accelerating the creation of a strong and diverse industrial cluster focused on low carbon energy solutions underpinning Aberdeen's position as a leading global energy city
- Anchor the supply chain, with its high-value employment and breadth of skills and expertise in the region for the long-term through internationalisation, decommissioning and diversification with a focus on energy transition
- Accelerate digital transformation within the supply chain to enhance competitiveness and productivity through supporting their adoption of digital technology.



OPPORTUNITY NORTH EAST

Oil, Gas & Energy

Diversification

- ONE and SE joint project to support diversification of the oil & gas supply chain into new sectors that will help accelerate the energy transition
- Provide SMEs with understanding of industry challenges and commercial opportunities in diversification markets
- Facilitate SME access to customers in these markets
- Provide one-to-one support to SMEs to build capacity and enable them to pursue/secure new business
- Provide customers in diversification markets with access to **motivated**, **informed and capable supply chain SMEs**
- SE research supply chain has increased sales from nonoil & gas markets from 22% to almost a third (32%) in a year, demonstrating the **pace of change**



OPPORTUNITY NORTH EAST

Oil, Gas & Energy

Offshore Wind

- Major offshore renewable projects happening in the north east
- Oil & gas industry's commercial, engineering, design and technical skills, knowledge and expertise are being applied to advance the scaling of offshore renewables
- Established companies supporting the sector

Aberdeen Renewable Energy Group

- Wants Aberdeen City and Shire to be as famous for renewables as it is for oil and gas
- Dedicated to the acceleration of supply chain growth in North East Scotland
- Developing wide reaching links, networks and partnerships of commercial benefit to members
- One of the longest established renewable energy development organisations in the UK
- Creating new initiatives and facilitating the development of projects



DELIVERING A RENEWABLES FUTURE



AREG services

- Active and targeted promotion of members and their capabilities through media, publications, exhibitions, events across the UK, and through extensive network
- Briefings and seminars tailored to membership interests technical, commercial, technology, innovation, legislation and policy, projects and key players
- Widely circulated weekly e-bulletin market intelligence, featured members, relevant events
- Newsletters
- International supply chain development market briefings, inward missions from key markets, facilitation of market access
- Business development advice







Scottish Development International





ENERGY ACTIVITY PLAN



Angola Mission (with ElCand DIT)

Offshore Europe Aberdeen

Nuclear Decommissioning J apan (with DIT)

Nigeria/ Ghana Mission

As ia Offs hore Wind Taiwan (with DIT)

East Africa mission (showcase in hotel)

Mission to AWEA and key US offshore wind states (with partner)

Offshore Technology Days Show (with DIT)

China Wind Power Expo (with Renewable UK)

OTCBrazil (with DIT)

lan Ross ANGOLA

Denise Addie SCOTLAND

TBC JAPAN lan Ross NIGERIA

tbc Taiwan

lan Ross MOZAMBIQUE

John McGinnes USA

Phil Stirling NORWAY

tbc China

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marion.murray@scotent.co.uk 0141 468 5865



Offshore Wind Europe Copenhagen (With Renewable UKS Africa Oil Week Capetown ADIPECExhibition (with EIC) Guyana (DITled) India Petrotech (with DIT led by EIC) EGYPS Mexico Mission (DITled) Wind Energy Expo (with EIC)

Brazil Mission (DITled)

CHINA CIPPE (led by partners)

Australia Oil and Gas (with EIC)

Energy Systems Mission to California (TBC)

Algeria Trade Mission

Adam Swainbank DENMARK

lan Ross SOUTH AFRICA

Hadi Fawzy ABU DHABI

Marion Murray GUYANA

tbc India

Hadi Fawzy EGYPT

Marion Murray MEXICO TBC JAPAN

Marion Murray BRAZIL

lan Ross CHINA

TBC AUSTRALIA

John McGinnes USA

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Support



Scottish Investment Bank

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

Brexit support

service with PrepareForBrexit.scot



FORTH & TAY OFFSHORE



R&D Grant supports

RSA

for creating jobs in specific locations

R&D Tax Credits for new products and services





£20 million for innovative energy projects (EIF) SMAS Scottish Manufacturing Advisory Service

Scottish Cyber Voucher

Digital Development Loan



Powering Scotland's East Coast

Offshore Renewable Energy Catapult

PNDC



business gateway

UNIVERSITY OF STRATHCLYDE POWER NETWORKS DEMONSTRATION CENTRE

The National HVDC Centre



Edinburgh centre for Robotics

Renewable Engine

National HVDC Centre







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Questions...



Questions, questions, questions.....

....Answers, answers, answers



Thank you



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