



## Seagreen Project Update with SSE Renewables

Webinar  
17 September 2020



**Welcome**  
**14:00**



**SOWEC – Innovation**  
**14:05**



**Support for Supply Chain**  
**14:10**



**Seagreen Project Update**  
**14:20**




**Q&A**  
**14:40**

**Close – 15:00**

**Welcome**

Lynsey Shovlin  
Forth & Tay Offshore

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# SOWEC- Innovation Update

September 2020

Andrew Jamieson

SOWEC, OWIC member

CEO, ORE Catapult

# Background

- OWIC and HMG Sector deal 2019 target of 30 GW UK waters by 2030
  - Range of initiatives across supply chain, skills, innovation to enable delivery and strong UK economic impact
  - Including OWGP – more from Andy MacDonald later today
- Since revised to 40 GW
- Climate Change Committee Net Zero **75+ GW by 2050**
- SOWEC formed to ensure Scottish continuity of Sector Deal initiatives and to progress “landscape” differences of Scotland vs UK

## SOWEC Membership

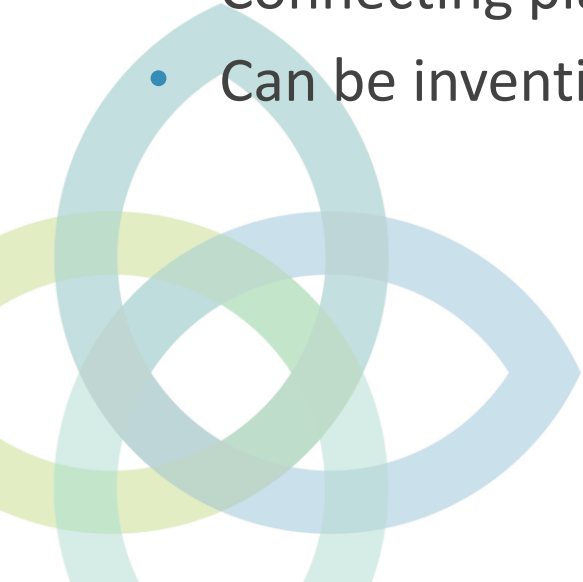


- Co Chairs – Minister Paul Wheelhouse MSP, Brian MacFarlane SSE
- Developers - Guy Madgwick Red Rock Power
- Innovation - Andrew Jamieson, ORE Catapult
- Barriers to Growth - Claire Mack, Scottish Renewables
- Skills - Jim Brown, ESP Scotland
- Supply Chain & Clusters - Stephen Thompson, Global Energy Group
- And representatives of Enterprise Agencies and Scottish Government

Focus on cluster success (Deep Wind, Forth & Tay);  
delivery of offshore renewables;  
maximising growth of sector and supply chain in Scotland

# Innovation – what is it?

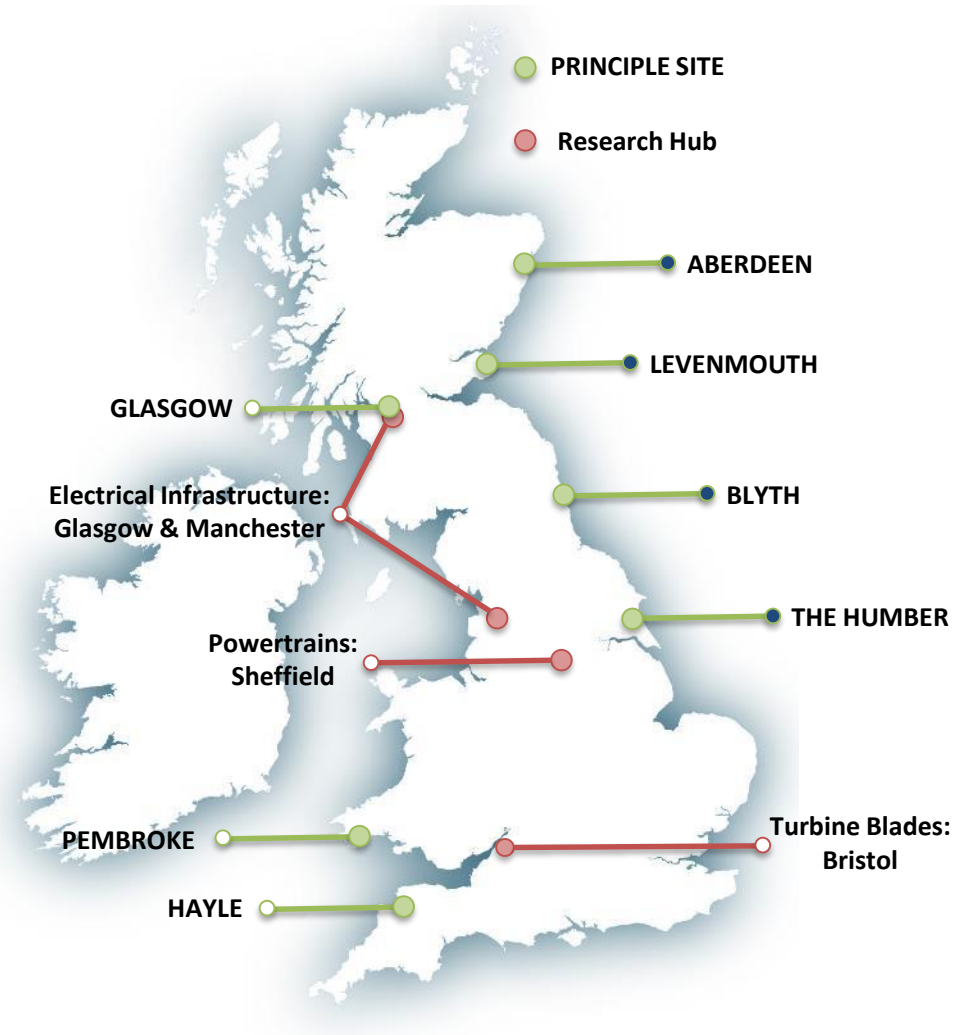
- It includes:
- Improving things – the way we think, make and deploy things
- Technology improvements
- And process improvements
- Learning and de-risking
- Connecting players across the sector and from outwith the sector
- Can be invention but more often is about bettering what we know



**Accelerate reduction of cost and risks**

**Accelerate growth and capture UK economic value**

- 197 employees (26PhDs)
- 7 sites
- World-leading test & demonstration facilities
- 3 University research hubs
- Engineering and research experts with deep sector knowledge
- Independent and trusted

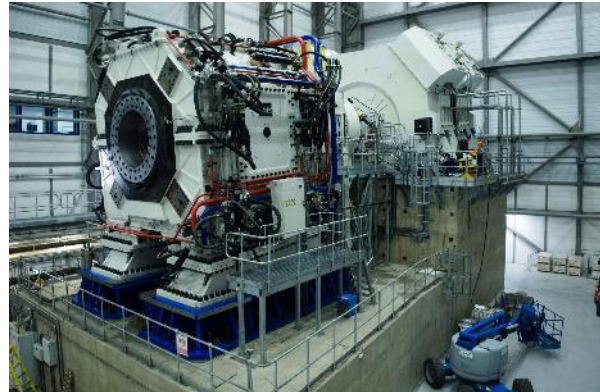


Yantai, China

## The foundation for deep industry engagement, demonstration and applied research



Blades



Drive trains



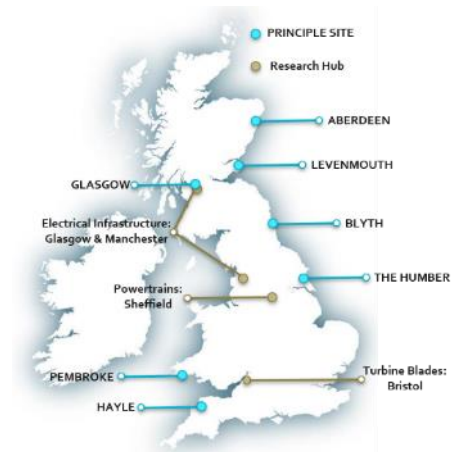
Collaborative research



Electrical systems



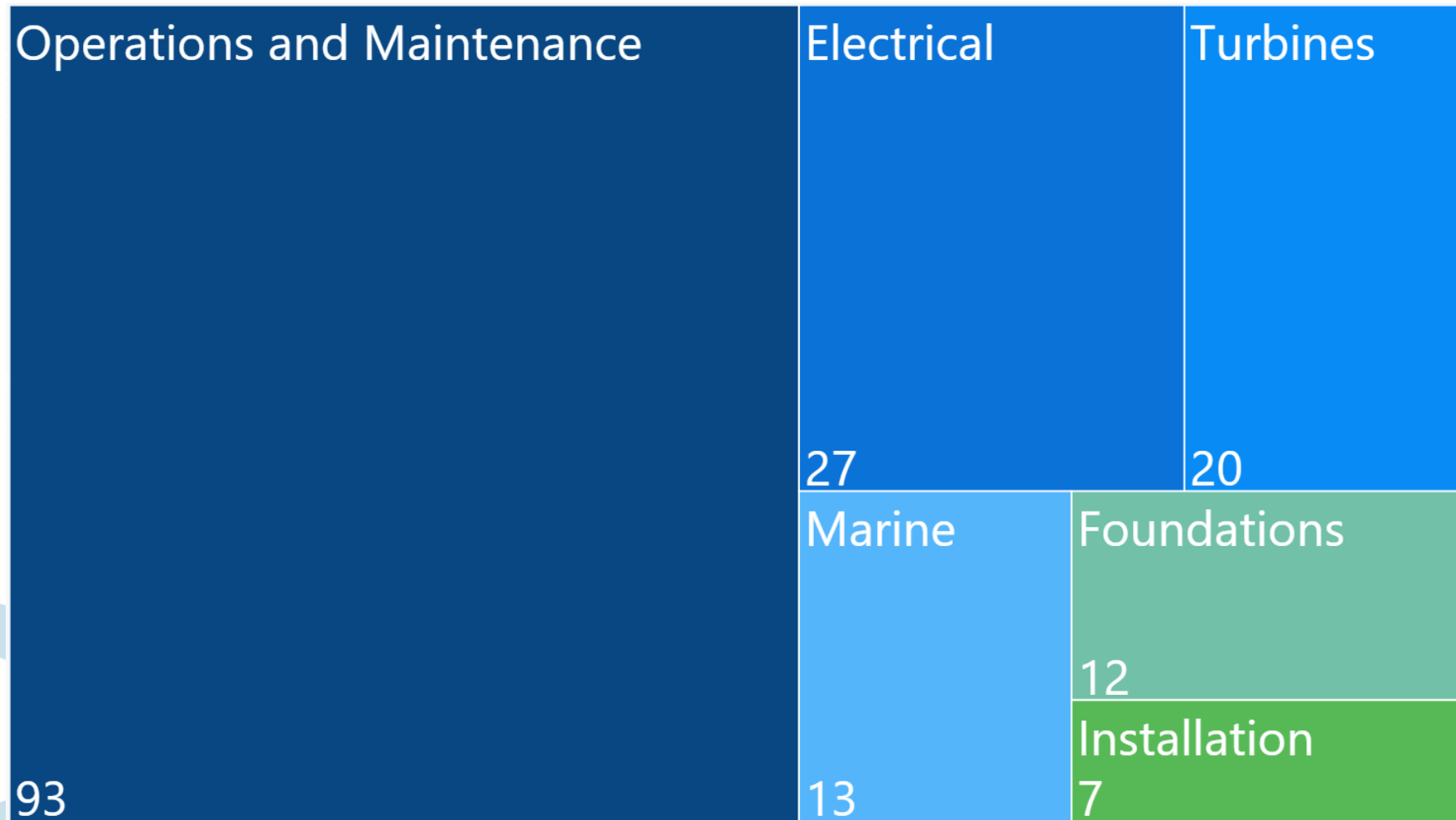
Real time data



Regional presence



Currently\* working with 172 SMEs across the key technology growth areas



\*Jan 2020

# Innovation Priorities Under SOWEC

- **Supply Chain Growth and Innovation Step Change**
  - Workshops and report questioning why investor confidence can be low and what's to be done?
  - Can we shift timelines of engagement developers / supply chain to the left?
  - Can we improve confidence in demand expectations?
- **Oil and Gas Energy Transition**
  - For too long Scotland's key sectors poles apart
  - Bring together supply chain and skills prospects
  - Energy Transition Alliance launched with OGTC
  - Connecting offshore wind to Hydrogen prospects
- **Floating Offshore Wind**
  - Map the prospects for Scotland
  - Ensure we identify and break down barriers for supply chain (scale is off the map...)
  - Floating Wind Centre of Excellence established by ORE Catapult with industry traction

## Conclusion

- Sector Deal is key strength of this industry, to come together, to work more closely with HMG and stakeholders, to ensure economic gain as well as clean power delivery
- Scotland's prospects are very strong, and co-ordination is a plus
- Size of prize continues to grow (Net Zero, Floating Wind, Hydrogen as an alternate fuel)
- Initiatives well underway – eg OWGP
- We need more innovation
- Use that to de-risk and improve investor confidence



# OWGP Overview

Andy Macdonald  
September 2020

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:

- Business Transformation – for development.
- Project Grants – for innovation and prototypes.

Funded by

**Offshore Wind  
Industry Council**



Delivered by

**CATAPULT**  
Offshore Renewable Energy

# Two types of support from OWGP



## Business Transformation

- Increasing competitiveness to enable business growth
- Programmes of support delivered by specialists
- Part of a managed programme; assessment, delivery, review
- Different levels of intensity
- In-kind contribution from beneficiary



## Grant Funding

- Funding for specific improvement or innovation projects
- Projects developed and managed by supply chain company
- Typically used for innovation – product and service commercialisation
- Range of sizes depending on stage of development
- In-kind contribution from beneficiary

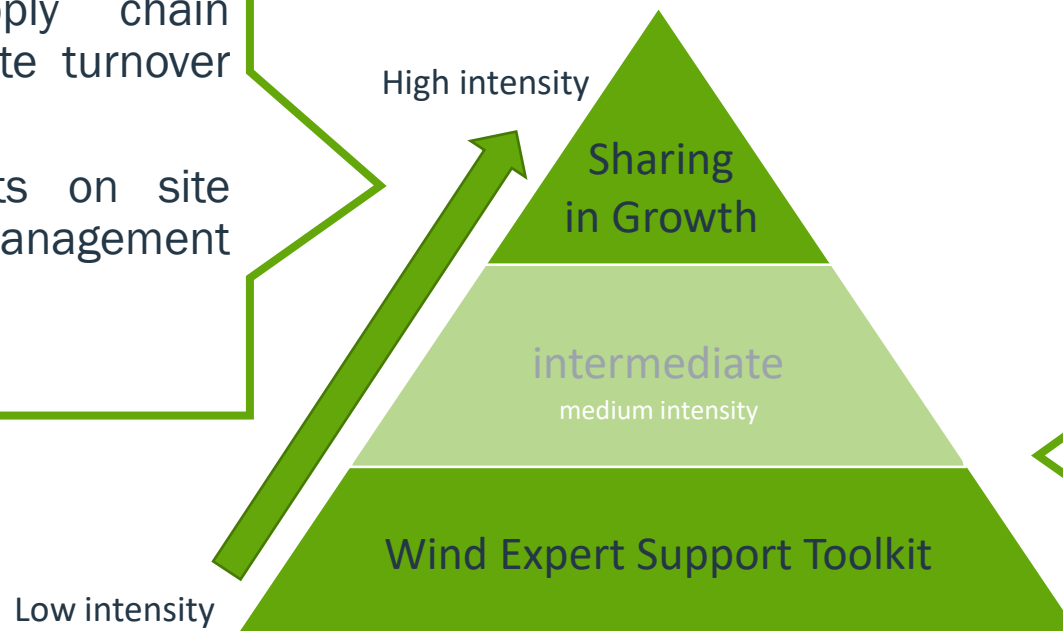
# Business Transformation Programmes

The **Sharing in Growth** Offshore Wind (SiG OW) Programme is a high intensity intervention and aims to support increased productivity and growth of supply chain companies in the UK offshore wind sector.

Offshore Wind Supply chain companies with UK site turnover £5m+.

Delivered with experts on site supporting senior management team.

Open in September



**Wind Expert Support Toolkit** is a low intensity intervention and aims to support growth of supply chain companies entering or already embedded in the offshore wind sector.

Delivered as two to ten days specialist support from framework of delivery partners.

Open in September

# 2020/21 Delivery Plan



Register at <https://owgp.org.uk>  
Contact us at [info@owgp.org.uk](mailto:info@owgp.org.uk)





# Supporting high growth companies in the UK offshore wind supply chain

[Learn more >](#)

[www.owgp.org.uk](http://www.owgp.org.uk)

# Seagreen – Project Update

John Casserly, Head of Major  
Projects – Procurement &  
Commercial

# SSE RENEWABLES

- SSE is a home-grown Scottish company with our headquarters in Perth.
- We aim to treble our renewable energy output to 30TWh by 2030, making a significant contribution to the UK and Scotland's net zero climate change targets.
- We have worked hard over last decade to develop the Scottish supply chain and create local jobs on our renewable energy projects, and will continue to work to create real value for local communities.
- The challenge of reaching net zero emissions for the UK and Ireland in the next 30 years is upon us, and we're ready to build on our experience to deliver the offshore wind we'll need to help get there.
- SSE has committed to invest £7bn in major low carbon construction projects to support net zero carbon and spur the green economy – this is the equivalent of circa £4m investment everyday for the next 5 years.

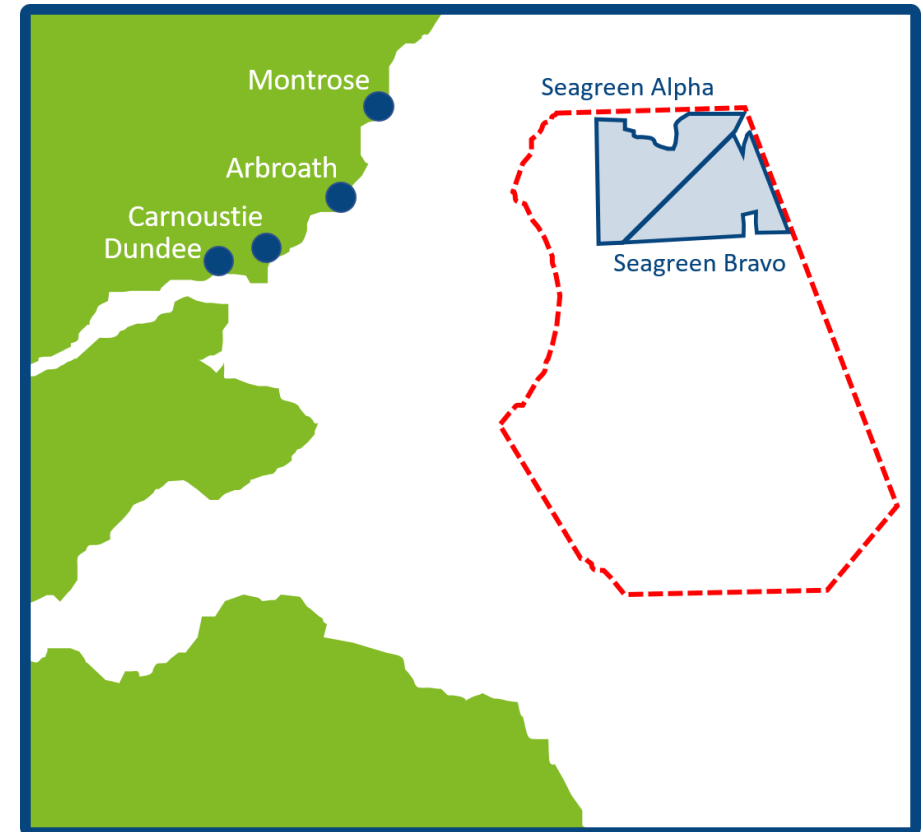
# SSE RENEWABLES

- SSE Renewables is proud of our success in the UK's 3<sup>rd</sup> Contract For Difference (CfD) allocation round securing:
- Doggerbank – 3 x 1.2GW contracts totalling 3.6GW
- Seagreen – 454MW contract towards the 1,075MW Phase 1 Project
- This is the largest volume of UK low carbon contracts secured by any developer
- Working with our project partners and the wider supply chain and despite coronavirus, we achieved financial close for Seagreen in June of this year and have now turned our focus to construction & delivery
- Also in June this year SSE approved a final investment decision for the 103 turbine 443MW Viking onshore wind farm



# SEAGREEN ZONE : FIRTH OF FORTH

- Joint Venture with Total, SSER taking lead on construction
- Total area: 2,865km<sup>2</sup>
- Distance offshore: 27km – 80km
- Water depth: 30 - 70m
- Development area (< 50m) ~ 1,000km<sup>2</sup>
- Development capacity Seagreen One – 1,075MW
- 114 turbines providing new low carbon renewable energy for around 1.3 million homes
- Avoids around 1.6 million tonnes of CO2 emissions per year
- Seagreen could contribute £2bn to UK economy of which £1bn could be in Scotland (both Construction & Operation)



# SEAGREEN CONTRACT SUMMARY

	Onshore Substation & Grid Connection	Onshore EC	Offshore EC	OSP Topside & Foundation	Foundation & IAC	WTG	O&M Base
Design	Petrofac	Nexans	Nexans	Petrofac	Subsea 7	MVOW	Montrose Port
Supply/Fabrication							
Transport & Install							
Commissioning							
Current Update	Onsite Construction Underway	Commence Onsite this month	Commence Onsite Q1 2021	Commence Onsite Q2 2021	Ramboll undertaken design. Commence Onsite Q1/Q2 2021	Commence Onsite Q3 2021	Final Layout/ location for pontoon agreed works progressing

# SUPPLY CHAIN OPPORTUNITIES

## Some Potential Supply Chain Opportunities - Installation, Commissioning and Operations & Maintenance

Boom lift for installation vessel	Lifting equipment	Portacabins
Catering and beverages	Labour hire	PPE and clothing
Cleaning and laundry facilities	Local training providers	Tool suppliers (hand and power)
Cranes	Civil engineering works	Transport inc. taxis
Electrical wholesalers	Metal work fabrication and turning	Transfer vessels
Fencing/Security	Office equipment	Waste disposal
Fork lift hire	O&M vessels	Material Suppliers
Fuel supply	Plant hire	Haulage
Hotels/accommodation	Electrical Engineering	Mechanical Engineering
Drone Inspections	Specialist Access	Building Maintenance
Professional services/experts		

# POSITION YOUR COMPANY FOR SUCCESS

What can you do to understand our challenges and position yourself for success with both SSE and our supply chain partners?

- Register as a potential supplier with both SSE and our Tier 1 suppliers, using SSE Supplier Registration System and those of our Tier 1 (details are provided at end of slides)
- Ensure compliance to minimum requirements:
  - Compliance to HSE and Quality requirements
  - Compliance to category specific requirements (e.g. Labour Hire offshore training requirements, cranes/equipment compliance etc)
- Assess and promote your capabilities:
  - Clear description of what you offer and capability
  - Proven track record, if any – including in other sectors such as oil & gas
  - Utilise the support available including the ORE Catapult F4OR programme, Offshore Wind Growth Partnership etc
- Be competitive:
  - Attractive pricing from a total cost perspective
  - Available capacity
  - Proactive collaboration, including innovative solutions/approaches etc





# POTENTIAL SUPPLIERS- SSE

SSE.COM POTENTIAL-SUPPLIERS

## POTENTIAL SUPPLIERS

SSE is one of the UK's biggest companies with a supply chain value of over £2bn.

With safety, sustainability and responsibility at the heart of all we do, we're keen to establish strong relationships with our suppliers because we know how critical they are to our business.

We want to build and develop our supplier network and welcome any new engagement from suppliers who share our core values. Our simple step approach to working together incorporates the key engagement steps with our Suppliers - Registration, Tender Management & Contract Engagement.

The first step in building a relationship with us, irrespective of which part of SSE you wish to work for, is to register using our Supplier Registration System which is hosted by Achilles Information Limited. For requirements that are subject to EU Procurement regulations, suppliers will be selected from Achilles UVDB in the United Kingdom or Achilles Supplyline in Republic of Ireland as this ensures your able to work with and support our teams safely and responsibly.

### OUR PATH TO WORKING TOGETHER

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graph LR; A[REGISTRATION] --> B[TENDER EVENTS]; B --> C[CONTRACT AWARD];
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Whilst our primary supplier selection process will utilise Achilles, for requirements that are subject to the EU procurement rules, Tender events will be published via OJEC/OJEU and suppliers will be able to participate directly and the procurement team leading the event will be able to advise and support you in joining the event via Emptoris.

For the second and third key steps we have introduced the Emptoris system to manage & facilitate our core sourcing process. Emptoris is an online, cloud based solution which enables our procurement teams to create tender events, invite suppliers to participate and manage contract negotiation and award. We will be introducing Emptoris across SSE through the beginning of 2017 and we have provided further information on how to use and access the system in the dedicated section of this page.

Sea green WIND ENERGY

About News Supply Chain Benefits Library Contact

## Registration

### Potential supplier registration

If you would like to register your interest as a potential supplier to the Seagreen offshore wind farm project (either directly to Seagreen Wind Energy Ltd or via our contractors) please complete the simple form below.

<http://sse.com/potential-suppliers/>

[www.o4b-highlandsandislands.com](http://www.o4b-highlandsandislands.com)

[www.seagreenwindenergy.com/supplychain](http://www.seagreenwindenergy.com/supplychain)

# KEEPING IN TOUCH



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**Offshore Wind Directory**

<https://osw.directories.scot>



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**Q&A**

Send your questions  
via the chat box.

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