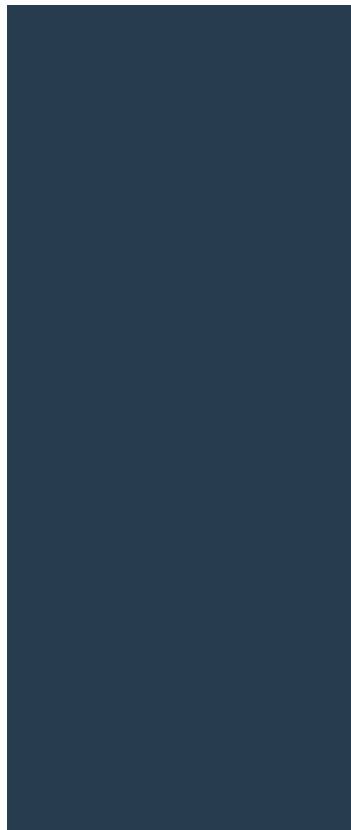
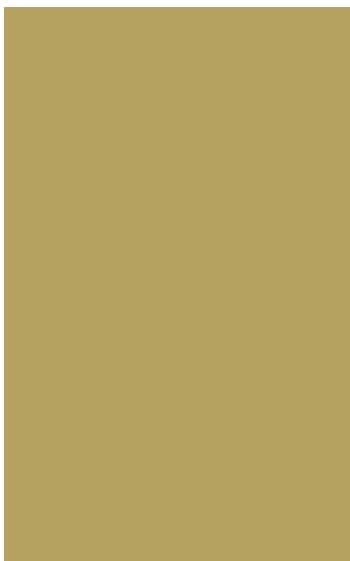
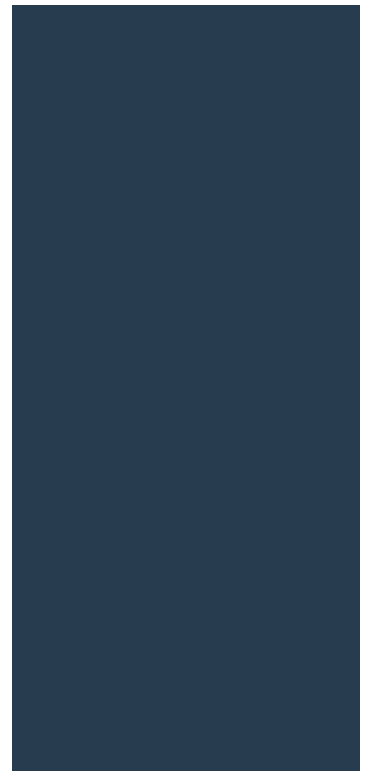


# CIRCULAR ECONOMY FOR THE WIND SECTOR (CEWS) INFORMATION PACK



## Background

The wind sector is fast approaching a point where wind farms in the UK and across Europe are nearing the point of decommissioning. With this major milestone there are several key considerations. ORE Catapult are looking to develop an industry-wide programme to cover not only the issues and understanding of what decommissioning will mean, but the wider circular economy impacts component reuse and recycling will have.

## The Objectives of CEWS

This 5-year programme is open to both onshore and offshore wind farms in the UK and around the world that want to gain detailed understanding of the following:



**The cost implications for decommissioning** – if we were to decommission next year what would those costs be and where can innovation and cross energy sector understanding work to bring these costs down?



**End of life understanding of monopiles** – is 25 years the correct date for a monopile to last in offshore conditions and are there techniques and innovation that can extend these structures or enable the sector to learn in future development?



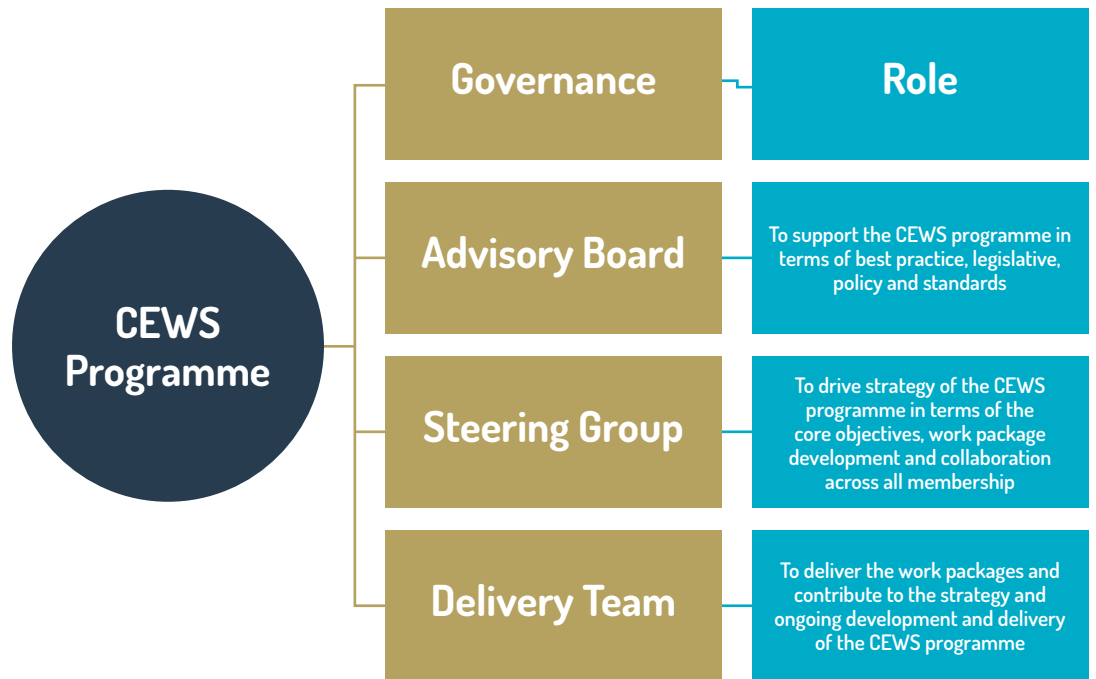
**Blade and key components recycling/reuse** – each turbine blade is several tons of composite, wood, steel and other materials and all constitute a major recycling and reuse headache for the industry. Supporting other programmes such as SusWIND and Project Moonshot, this work package will gain deep understanding of key component recycling and reuse strategies.



**Repowering potential** – a lot has been discussed about how the sector can repower existing sites in the future in what would be the “ultimate” reuse of existing structures and infrastructure. But what does that mean and what is realistically possible? This project will focus on the potential and start to develop testing environments and innovation that can make this happen.

## Structure

CEWS will have 3 distinct groups supporting the work packages covering the following:



### The Advisory Board currently consists of the following organisations:

- The Crown Estate
- Crown Estate Scotland
- OFGEM
- Environment Agency
- Zero Waste Scotland
- National Composite Centre
- CompositeUK
- SEDA
- National Composite Centre (supporting SusWIND)
- OGTC
- ECHT (supporting Project Moonshot)

### The Steering Group

This consists of asset owners, managers, OFTO businesses, transmission companies and OEM's that have a vested interest in the wider circular economy within the wind sector. This programme is open to any business that will be impacted and has a requirement to understand wind decommissioning and wider circular economy impacts.

### Academic and Cross Sector Involvement

ORE Catapult will also be working with the O&G and nuclear sector to gain wider understanding of where collaboration and sharing of expertise can be made and supported. This will be both as mutual energy understanding as it will be with the supply chain. In addition to this we will also be working with Hull, Leeds and Strathclyde Universities in delivering these programmes.

### Solution Providers and Supply Chain

ORE Catapult are dedicated in bringing the best of SME and corporate capabilities to support this programme, regardless of how that expertise has been developed within or outside of the energy sector, but where it can be adapted and utilised. The programme will fund work packages, innovation challenges and directly engage with business that can actively support a wider circular economy for the wind industry.

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### **Costs** – To become a member of the **Steering Group** you will need to:

- Have or manage wind farm assets
- Have a requirement to understand more about decommissioning, recycling and the wider impacts of the circular economy
- Nominate a dedicated member of your team to represent your business in the programme
- Participate for a minimum of 3 years (this is a 5 year programme)
- Be able to attend quarterly meetings with the other members of the steering group
- Openly participate and benefit from joint understanding and sharing of ideas and thinking
- Cost for the programme is £50,000 per asset owner/manager per year.

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### To become a member of the **Delivery Team** you will need to:

- Have a deep understanding of the key areas of this programme
- Be an innovation company that can support the objectives
- Be willing to offer time and resource in supporting the programme
- Cost for the programme is based on application and as a % of turn-over up to £10,000 per year.

## **How to take part**

For more information

please contact the CEWS

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