

Playing our part in the growth of UK offshore wind

Our team of environmental and commercial experts, working in partnership with industry, stakeholders and Government, take an active, long-term approach to offshore wind development, helping unlock the extraordinary potential of the UK's seabed.

Key enabling actions

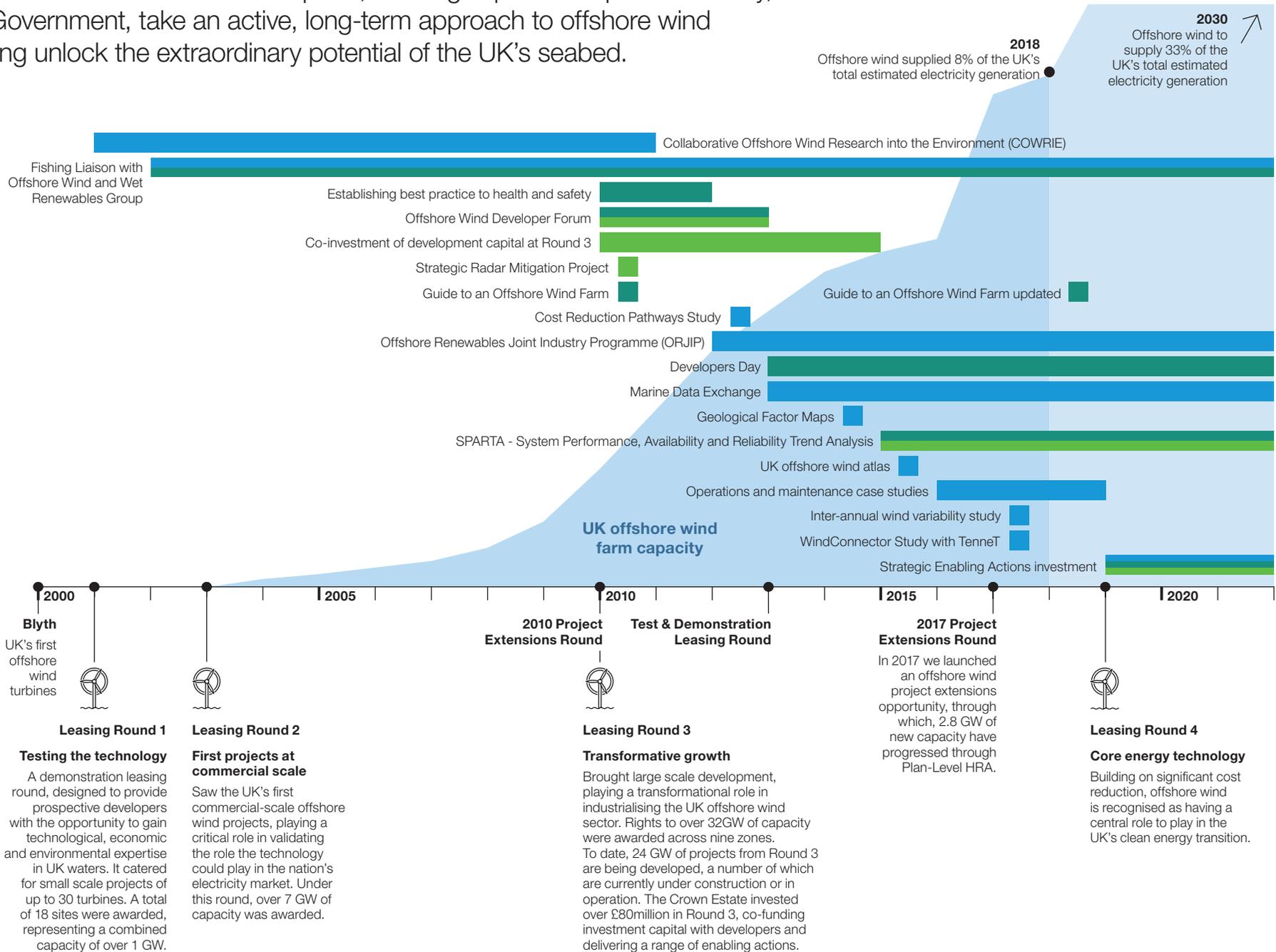
The chart on the right represents the timeline of our key enabling actions and the launch of leasing activities.

In addition to leasing seabed sites, we have undertaken a number of important enabling actions, together with the industry and stakeholders, to support the development and continued growth of the UK offshore wind sector.

These include:

- Growing the evidence base**
- Establishing best practice**
- Investing alongside developers**

All of this has helped to bring down cost, de-risk developments and unlock value, making our nation's seabed a brilliant place to invest.



Key enabling actions



Growing the evidence base



Establishing best practice



Investing alongside developers

Collaborative Offshore Wind Research into the Environment (COWRIE)

A programme of over 50 environmental research projects, designed to advance the understanding of offshore wind's impact on the marine environment.

Fishing Liaison with Offshore Wind and Wet Renewables Group (FLOWW)

FLOWW, chaired by The Crown Estate, helps foster good relations and collaboration between the fishing and offshore renewable energy sectors, by sharing knowledge, developing best practice and liaising with other sectors with interests in the marine environment.

Establishing best practice to health and safety
(now the Global Offshore Wind Health and Safety Organisation)

Establishing best practice to health and safety across the UK offshore wind sector.

Offshore Wind Developer Forum

Established by The Crown Estate in 2010 to bring together government and industry to find solutions to barriers which have the potential to impede the viability and deliverability of offshore wind. In 2013, the forum was replaced by the Offshore Wind Programme Board and Offshore Wind Industry Council, which delivered the Offshore Wind Sector Deal in March 2019.

Co-investment of development capital at Round 3

A transformative investment of over £70m by The Crown Estate which helped de-risk project deployment, and accelerate the scale and pace of development, helping to position the UK as the world's leading market.

Strategic Radar Mitigation Project

Funding of new air defence radar for the MoD, helping to unlock development of over 2 gigawatts of projects in the Greater Wash area.

Guide to an Offshore Wind Farm

Providing supply chain information, supporting supply chain development and promoting the opportunity to invest in the UK offshore wind sector.

Cost Reduction Pathways Study

Setting out measures to reduce the Levelised Cost of Energy for offshore wind to £100/MWh by 2020.

Offshore Renewables Joint Industry Programme (ORJIP)

A UK wide collaborative programme of environmental research, bringing together industry, regulators, statutory nature conservation bodies and academia to work together on key environmental and consenting issues.

Developers Day

An event held semi-annually, where offshore wind farm development Projects Directors are invited to share information and lessons learned, with a focus on cost reduction and Offshore Wind Programme Board activities.

Marine Data Exchange

A platform providing free access to survey data collected by developers and operators throughout the lifetime of a project, helping to build a better understanding of the seabed, share lessons learned and encourage evidence based decision making.

Geological Factor Maps

(in collaboration with BGS)
A series of maps to underpin seabed constraints analysis, helping to assess seabed development opportunities.

SPARTA - System Performance, Availability and Reliability Trend Analysis

(in collaboration with ORE Catapult)
Helping the sector boost operational performance by enabling windfarm operators to benchmark their data against other sites.

UK offshore wind atlas

(in collaboration with The Met Office)
Providing detailed information on wind climate and seasonal directionality around the UK.

Operations and maintenance case studies

Since 2016, we have published 18 case studies with ORE catapult. Based on these studies, we commissioned the ORE Catapult to conduct a series of Data Pilots with operators in 2018, to help operators' data analytic teams kick-start innovation through capturing and understanding common data and digitalisation challenges facing the offshore wind sector.

Inter-annual wind variability study

Providing long term variability statistics for offshore wind, helping to increase investor confidence in expected deviations from mean wind speeds.

WindConnector Study with TenneT

Investigating integrated offshore grid infrastructure providing transmission of electricity generated by offshore wind farms and interconnecting electricity markets.

Strategic Enabling Actions investment

A commitment by The Crown Estate, in support of future leasing and the 2019 Offshore Wind Sector Deal, to fund a programme of strategic enabling actions, designed to increase the available evidence-base in the sector and tackle challenges to growth, supporting the sustainable and coordinated expansion of UK offshore wind, over the longer term.

Find out more

You can stay in touch with our work in offshore wind, and read more about our technical work and engagement activity, on our website <https://www.thecrownestate.co.uk/en-gb/what-we-do/on-the-seabed/energy/>

Alternatively, please email us at OffshoreStakeholder@thecrownestate.co.uk