



**7 November 2025**

[Tethys](#) is a knowledge hub with information and resources on the environmental effects of wind and marine energy. The bi-weekly [Tethys Blast](#) highlights announcements and upcoming events; new documents in the [Knowledge Base](#); and international energy news. [ORJIP Ocean Energy](#) has partnered with [OES-Environmental](#) to provide additional content. [Email us](#) to contribute!

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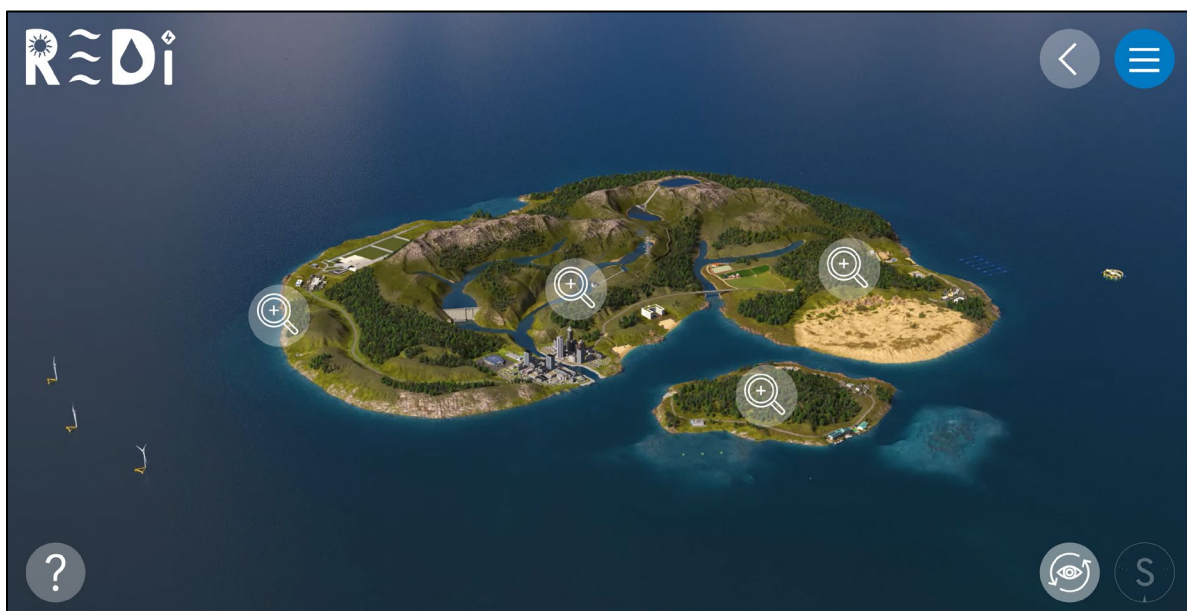
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## Announcements

### Renewable Energy Discovery (REDi) Island: Now Open for Full Exploration

[REDi Island](#) has expanded, and there's more to explore than ever! The latest updates to the free, [web-based educational app](#) unlock two additional island regions and eight new classroom lessons and activities. These enhancements add to the app's growing collection, which now includes 15 technology-focused animated videos, informational markers, supporting resources, and more.



## EMEC Consultation Open

European Marine Energy Centre (EMEC) has applied to the Scottish Ministers to extend the consent to construct and operate the Fall of Warness Tidal Test Site for a further two years until March 2028. Representations for this [consultation](#) are due by 20 November 2025.

## ORISE Applications Open

The [Oak Ridge Institute for Science and Education \(ORISE\) Marine Energy Fellowship Program](#), which offers [graduate students](#) and [postgraduates](#) the opportunity to engage in marine energy research while embedded at selected host facilities for up to 12 months, is now accepting applications for its Summer Cohort through 12 December 2025.

## Calls for Abstracts

The Call for Abstracts for the [Environmental Interactions of Marine Renewables Conference \(EIMR 2026\)](#) is open through 13 November 2025. EIMR 2026 will take place on 13-17 April 2026 at the Scottish Association for Marine Science in Oban, Scotland.

The [Call for Abstracts](#) for the [2026 State of the Science Workshop on Offshore Energy, Wildlife, and Fisheries](#) is open until 12 December 2025. The Workshop will take place on 8-11 June 2026 at Stony Brook University in Long Island, New York, USA.

The Call for Abstracts for the [Young Coastal Scientists and Engineers Conference \(YCSEC 2026\)](#) is open until 19 December 2025. The conference will take place 13-14 April 2026 in Nottingham, England. Early bird registration is available through 16 January 2026.

The [Call for Abstracts](#) for [OCEANS 2026 Sanya](#) is open until 22 December 2025. OCEANS 2026 Sanya will take place 25-28 May 2026 in Sanya, China.

The [Call for Speakers](#) for [All-Energy 2025 Exhibition and Conference](#) show floor theatres is now open until 23 January 2026. All-Energy will take place 13-14 May 2025 in Glasgow, Scotland.

## Funding & Testing Opportunities

Research Infrastructure Services for Renewable Energy (RISEnergy) has launched its third [Transnational Access Call](#), offering researchers from academia and industry the opportunity to access cutting-edge research infrastructures across Europe. This call focuses on innovative solutions that improve energy systems and/or reduce the life cycle cost of renewable energy technologies, including ocean energy and offshore wind. Apply by 9 November 2025.

The Offshore Renewable Energy Sustainability Alliance (ORESAs) launched its first [Accelerator Programme Innovation Call](#) for small and medium enterprises across the North-West Europe region. The programme is seeking cutting-edge technologies that advance the field of offshore renewable energy, including wave, tidal, floating wind, offshore solar, and other emerging innovations. Apply by 30 November 2025.

## Career & Internship Opportunities

The Pacific Offshore Wind Consortium (POWC) recently updated its list of current [Internship and Professional Development Opportunities](#) in the offshore wind sector. If you would like to add your opportunity to upcoming lists, [email POWC](#).

The Fundy Ocean Research Centre for Energy (FORCE) is recruiting a [Marine Optics and Acoustics Research Scientist](#) to play a critical role in FORCE's research efforts under the newly funded Ocean Sensors Innovation Platform (OSIP) project. Position open until filled.

The Pacific Fishery Management Council (PFMC) is seeking a [Fisheries Scientist \(Staff Officer\)](#) to play a central role in the development of scientific processes, the review of scientific analyses, and providing recommendations and insights for informing Council decisions.

Biodiversity Research Institute (BRI) is hiring a [Science Writer and Communications Specialist](#) who will be based within BRI's Center for Research on Offshore Wind and the Environment (CROWE) and work primarily on projects related to offshore wind energy development, including science communications, stakeholder engagement, and publication initiatives of the Offshore Wind Environmental Technical Working Group (E-TWG).

The Royal Society for the Protection of Birds (RSPB) is seeking a [Senior Conservation Seabird Scientist](#) to join the RSPB's Conservation Science team and work at the cutting edge of seabird tagging, tracking and monitoring and research and policy in Northern Ireland. Apply by 9 November 2025.

EMEC is looking to appoint a new [Non-Executive Director](#) to strengthen the EMEC Board and offer strategic guidance, governance, and strong leadership during EMEC's next phase of development and growth. Apply by 10 November 2025.

Dr. Linda D'Anna and Dr. Eric Wade are recruiting a [PhD student](#) to study the social dimensions of ocean energy. The student will be based at North Carolina State University and participate in Atlantic Marine Energy Center activities. The deadline to apply is 31 January 2026, but interested applicants are encouraged to reach out with their materials by 15 November 2025.

The Centre for Environment, Fisheries and Aquaculture Science (Cefas) is hiring a [Principal Fisheries Acoustician](#) to lead on fisheries acoustic monitoring and research and development as part of a range of government, research council, and internationally funded projects. Apply by 17 November 2025.

Heriot-Watt University is offering a funded PhD project focused on [Flow Interactions of Tidal Stream Energy: Understanding how large tidal farms will affect each other](#). International students are eligible. Apply by 28 November 2025.

The [InDustrial Centre for Doctoral Training for Offshore Renewable Energy \(IDCORE\)](#) has opened applications for its four-year, full-time, Engineering Doctorate, which involves 1 year of

teaching after which students are physically based with their UK sponsoring company for 3 years. Apply by 30 November 2025.

William & Mary's Batten School of Coastal and Marine Sciences & Virginia Institute of Marine Science (VIMS) are hiring an [Assistant Teaching Professor of Coastal and Marine Sciences](#), with expertise in coastal, estuarine, and marine biology and ecology. Apply by 1 December 2025.

Supergen Offshore Renewable Energy Hub is looking to expand its [Early Career Committee](#), which plays a vital role in shaping the direction of its Early Career Network. These are 12-month, voluntary positions. Apply by 1 December 2025.

The Gulf of Maine Research Institute (GMRI) is seeking a [Climate-Ocean and Coastal Law & Policy Research Specialist](#) to investigate and analyze how climate, ocean, and environmental science can inform and interact with legal, regulatory, and broader governance frameworks. Apply by 20 December 2025.

The University of East Anglia is offering a [funded PhD project](#), Next-Generation Marine Ecosystem Indicators: Machine Learning for Smarter Marine Spatial Planning in a Changing Climate. Apply by 7 January 2026.

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## Upcoming Events

*The [Tethys Events Calendar](#) highlights key events from around the world related to wind and marine energy, including conferences, webinars, workshops, and more.*

### Upcoming Webinars

The Blue Economy Cooperative Research Centre (CRC) is hosting a webinar, "[Highlights from the European Wave and Tidal Energy Conference 2025](#)", on 11 November 2025 from 4:00-5:30pm AEDT (5:00-6:30am UTC). This webinar is a re-run of selected presentations from European Wave and Tidal Energy Conference (EWTEC) 2025 showcasing the latest developments in wave energy from Australian and international researchers and developers.

The Renewables Grid Initiative (RGI) and Offshore Coalition for Energy and Nature (OCEaN) are hosting a webinar, "[Country Profile Webinar: Lessons from the United Kingdom](#)", on 12 November 2025 from 11:00am-12:15pm CET (10:00-11:15am UTC). This webinar will explore the UK's offshore wind targets and how their policy frameworks, planning strategies, and consenting approaches aim to support offshore renewable energy deployment while safeguarding marine ecosystems. [Register here.](#)

Pacific Marine Energy Center (PMEC) is hosting a Marine Energy Fall Seminar Series for industry trailblazers to share stories from their journeys into marine energy and ocean engineering. The [first seminar](#), on 12 November 2025 from 2:00-3:00pm PST (10:00-11:00pm UTC), will feature Paul Murphy, cofounder of MarineSitu. The [second seminar](#), on 10 December

2025 from 1:00-2:00pm PST (9:00-10:00pm UTC), will feature Grace Chang, Director of Research & Development at Integral Consulting.

POWC is hosting a webinar, “[Offshore Wind Jobs: Preparing Northern California Tribes and Local Communities](#)”, on 12 November 2025 from 1:00-3:00pm PST (9:00-11:00pm UTC). Presentations will include findings from Humboldt County’s Offshore Wind Workforce Assessment and from a recent Schatz Center report on professional labor demand in California’s floating offshore wind industry. Presenters will also highlight workforce development programs helping to prepare community members for offshore wind jobs. [Register here.](#)

The New York State Energy Research and Development Authority (NYSERDA) is hosting a *Learning from the Experts* webinar, “[Repurposing Offshore Expertise: Lessons Learned from Oil](#)”, on 19 November 2025 from 1:00-2:00pm EST (5:00-6:00pm UTC). Jim Bennett and Ian Voparil will draw from their decades of experience with BOEM and Shell, respectively, to discuss how America's offshore expertise gained from oil development is informing the responsible and effective development of offshore wind energy.

RGI and Global Initiative for Nature, Grids and Renewables (GINGR) are hosting a webinar, “[Connecting Pollinator Corridors Using evidence and monitoring to deliver a Nature-Positive grid](#)”, on 11 December 2025 from 2:00-3:30pm UTC. The second session of *Connecting Energies 2025: Civil Society Webinar Series* explores how electricity corridors can become ecological assets rather than interruptions in the landscape.

### Upcoming Workshop

Responsible Offshore Science Alliance (ROSA) is hosting a [ROSA Data Governance in Motion Event](#) on 12 November 2025 in Cambridge, Massachusetts, USA. The event will feature discussions, interactive workshops, and networking opportunities. Virtual option available.

### Upcoming Conferences

The Supergen Offshore Renewable Energy (ORE) Hub recently announced that its [Annual Assembly 2026](#) will take place on 22 April 2026 at the University of Warwick in Coventry, England. The Early Career Researcher Forum 2026 will also take place on 21 April 2026, also at the University of Warwick. More information coming soon.

The International Energy Agency’s Ocean Energy Systems (IEA-OES) and Ocean Energy Europe together with the Dutch Energy from Water Association (EWA) have announced they will join forces to host the [International Conference on Ocean Energy \(ICOE\) and Ocean Energy Europe’s \(OEE\) Conference & Exhibition 2026](#) on 5-7 October 2026 in The Hague, Netherlands.

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## **New Documents on Tethys**

*[Tethys](#) hosts thousands of documents on the environmental effects of marine and wind (land-based and offshore) energy, including journal articles, conference papers, and reports.*

## Marine Energy

### [The socio-economic benefits of tidal power to the European economy](#) – Noble et al. 2025

Tidal stream power offers a predictable source of renewable energy, contributing to energy security and Net Zero. There is also significant socio economic benefit to Europe from building and operating tidal farms, which this paper aims to quantify. Europe is at the forefront of developing and deploying tidal stream technology, with a significant pipeline of projects to be built over the coming years. The socio-economic benefits resulting from developing, building and operating tidal stream projects are modelled. They are quantified using two common metrics, gross value added and full-time equivalent jobs. Depending on supply chain competitiveness and rate of deployment, the economic benefit to the European economy from building and operating tidal stream projects in Europe could be €15bn to €46.5bn, with exports worth €2bn to €26bn.

### [Lifecycle analysis of marine renewable energy infrastructures: Sustainable futures](#) – Tamoor and Zhang 2025

Marine renewable energy (MRE) infrastructures offer significant potential to address global energy needs and mitigate climate change, yet they currently contribute only a small portion of electricity production. The growing reliance on non-renewable resources increases CO<sub>2</sub> emissions, necessitating a shift toward sustainable future solutions. While MRE infrastructures present opportunities for sustainable development, they face interdisciplinary challenges, including high costs, technological barriers, environmental impacts, and governance issues. This review focuses on lifecycle assessments of MRE infrastructures, aiming to reduce their ecological footprint and inform decision-makers. Key challenges include the need for advanced materials, improved resource assessments, and stronger regulatory frameworks.

### [Environmental effects of marine renewable energy off-grid and micro-grid applications: a use case approach to assess existing knowledge and remaining uncertainties](#) – Hemery et al. 2025

Most environmental research and monitoring for marine renewable energy (MRE) devices has sought to understand effects that will drive consenting and licensing decisions for large, grid-scale, projects. However, many near-term and likely long-term uses of MRE will be to power remote coastal and island communities via micro-grids and direct supply, as well as provide power at sea for offshore aquaculture, ocean observations and navigation markers, and other off-grid uses. These applications will operate on a much smaller scale than grid-connected MRE devices for regional or national utility scales. There has been little focus on the potential environmental effects for these increasingly more common micro-grid or off-grid uses. For this paper, we generated a series of hypothetical use cases of micro-grid and off-grid applications, some with an on-land electricity use and others with strictly at-sea usages.

## Wind Energy

### [New frontiers in wind-wildlife monitoring systems](#) – Dempsey et al. 2025

Effective minimization of negative effects of wind energy on wildlife is an iterative process whereby direct observations of wildlife effects inform and validate mitigation strategies. Yet, the full implementation of this adaptive management has been hindered by a lack of appropriate data. The accurate, high-resolution data required exceeds the capacity of most current monitoring approaches (human observers or monitoring technologies applied in isolation). Current applications of monitoring technologies struggle to harness their full potential by failing to capitalize on opportunities for integration with additional technologies and/or by having limited temporal and spatial resolution. At the emergence of this new frontier of wildlife monitoring, we review the elements of a robust wind-wildlife monitoring system and highlight sensor fusion principles that facilitate effective implementation and integration of multiple monitoring technologies.

### [Environmental considerations related to floating offshore wind farms: a case study from waters around New South Wales, Australia](#) – Przeslawski et al. 2025

Australia will likely host new commercial offshore wind farm (OWF) developments, including possible floating turbines off the coast of New South Wales (NSW). However, early planning has already resulted in strong community opposition, largely because of perceived negative environmental impacts. This review provides a summary of research to inform the potential environmental impacts of floating OWFs in the waters around Australia, using NSW as a case study. We review information on regional environmental baselines for key receptors and characterise how environmental impact pathways identified by the Australian Government may apply to floating OWFs. The greatest challenge to impact assessment in Australia is the scarcity of local environmental information, particularly regarding species distributions and ecosystem functions in deeper marine environments where floating OWF development may occur.

### [3rd Edition: Summary of Bird Fatality Monitoring Data Contained in AWWIC](#) – Renewable Energy Wildlife Institute (REWI) 2025

This report aims to provide the most up-to-date understanding of the patterns and variability in species composition, timing, and magnitude of bird collisions with land-based wind energy turbines to support research and insight. Findings are useful in checking assumptions and setting expectations about collision risks at wind energy facilities, as well as generating testable hypotheses. This report summarizes data from 331 post-construction mortality monitoring studies conducted over 21 years and across 254 land-based wind energy projects in the United States. The American Wind Wildlife Information Center (AWWIC) database contains fatality estimates and protocols used to develop those estimates, individual fatality incident records, and information about the wind energy project itself (such as turbine size, installed capacity, ecoregion).

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## News & Press Releases

### Marine Energy

#### [Horizon Europe backs FOREST project to advance ocean energy system technologies](#) – EMEC

The FOREST (Future Ocean Renewable Energy System Technologies) project has launched with support from the European Commission under the Horizon Europe Programme. With a budget of €4 million, the project brings together eight partners from the UK, Portugal, Spain and Sweden to drive advancements in subsea components and digital technologies that will set new global standards for durability, reliability and efficiency in ocean energy systems. Coordinated by EMEC based in Orkney, Scotland, the three-year project aims to enhance the performance of ocean energy arrays, reduce the levelised cost of energy (LCOE), foster sustainability of ocean energy systems, and accelerate market readiness. FOREST will also generate and share knowledge on how to operate ocean energy farms, improving their availability, maintainability, reliability, survivability and sustainability.

#### [Seaturns Announces Phase II of Its Full-Scale Sea Trials in Nouvelle-Aquitaine](#) – Seaturns

Seaturns, a Bordeaux-based startup specializing in the conversion of wave energy into clean electricity, is moving forward with Phase II of its full-scale sea trials on an operational site located within the jurisdiction of the Port of Bordeaux, off the Gironde estuary in the Nouvelle-Aquitaine region. This site offers optimal wave and logistical conditions, essential for testing the floater's performance in an environment representative of future industrial deployment. The Gironde estuary site was selected for its technical and maritime characteristics, which are particularly well suited to validating the demonstrator. The deployment area will soon undergo comprehensive environmental and visual studies, in accordance with the requirements for obtaining the temporary occupation authorization (AOT) of the maritime domain.

#### [Liverpool City Region Mayor extends successful collaboration with world's leading tidal power operator](#) – Liverpool City Region Combined Authority

Mayor Steve Rotheram has extended a 'successful and productive' collaboration with the Korean operators of the world's largest tidal power scheme. The Memorandum of Agreement with K-Water, operators of the Sihwa Lake Tidal Power Plant, was first signed three years ago and is helping shape Combined Authority plans to harness the immense tidal power of the River Mersey. Generating up to a gigawatt of clean, predictable, electricity, with low production costs, Mersey Tidal Power would create thousands of jobs while supporting UK energy security and the road to net zero. A two-year extension was signed by Mayor Steve Rotheram, LCRCA Chief Executive Katherine Fairclough, and Jang Byeong-hoon, Executive Vice-President of K-Water, on Wednesday 5 November.

## **Safety-first approach halts Weco's wave energy device North Sea deployment – Offshore Energy**

The Hague-based Wave Energy Collective's (Weco) Kaizen 2.0 wave energy prototype underwent testing in the North Sea last week, marking an important phase in the company's ongoing development process. According to the team, preparations for the test were thorough, with favorable weather conditions, approved procedures, and all hardware ready for deployment. However, the installation was halted after a procedural deviation led to a mechanical issue. "During installation, a deviation from the intended procedure led to a snap load on a connection not designed to absorb it. Putting safety first, we made the decision to halt the installation and return both the team and the device to shore," the company stated. Despite the setback, Weco said that the test provided valuable data and operational lessons.

## **Slow Mill Hits Californian Waters – Slow Mill Wave Power**

Slow Mill Wave Power recently announced: "We've had an amazing time on the West Coast — and made big steps towards expanding our business internationally. This month we exhibited at Ignite22, one of the key events for the sustainable blue economy in the U.S., organized by Braid Theory at AltaSea at the Port of Los Angeles. ... We were also invited by the Port of Los Angeles for a special boat tour — meeting stakeholders and learning more about the opportunities for clean energy at one of the world's busiest ports. To top it off, we deployed one of our wave energy test devices in the salt waters of L.A.! Together with partners, we're now preparing a full offshore test in the Pacific Ocean, showcasing our advantage in southern wave climates, enhancing marine biodiversity and flexible deployment."

## **Wind Energy**

### **New joint industry project to standardise offshore wind geospatial data management kicks off – Carbon Trust**

The Carbon Trust has today announced the launch of the Unison Project, which will develop a standardised offshore wind data model to support safer, faster and more cost-effective construction of offshore wind farms. The Unison Project is led by a consortium of 12 major offshore wind developers and industry stakeholders and will be delivered by the Carbon Trust. The rapid expansion of the offshore wind industry has led to a surge in demand for geospatial data services that support offshore site development, with a growing number of contractors and developers producing and exchanging data. However, the lack of standardisation in how data is structured and shared can lead to inefficiencies, increased project costs and elevated risks during construction. The offshore wind data model will serve as a template for managing and exchanging GIS data during the construction phase of offshore wind projects.

## **Multi-Billion Dollar Offshore Wind Energy Investments from Apollo and CIP – The Maritime Executive**

The international investment community continues to see compelling investment opportunities in the offshore wind energy sector, with Apollo-managed funds announcing they will invest \$6.5 billion in the UK, while Copenhagen Infrastructure Partners is reported to be planning a \$3 billion investment in the Philippines. The moves come despite the repeated headlines about the troubles in the offshore wind energy sector. Danish developer Ørsted has struck a deal with Apollo to sell a 50 percent stake in the under-construction Hornsea 3 project, which will be one of the largest offshore wind farms ever built. Located in the North Sea, the project will have a total of up to 231 turbines and a capacity of 2.9 GW. Onshore work has been underway since 2023, with the project expected to be completed in 2027.

## **MARINEWIND launches interactive tool to assess the Levelised Cost of Energy for offshore wind technologies – MARINEWIND**

The European project MARINEWIND – Market Uptake Measures of Floating Offshore Wind Technology Systems, funded by the European Union under the Horizon Europe programme and by UKRI, has developed a decision-support tool to assess the Levelised Cost of Energy (LCOE) for both floating and bottom-fixed offshore wind farms. The model was designed and led by the project's Scientific Coordinator, the University of York, with the feedback of the MARINEWIND partners: APRE - Agenzia per la Promozione della Ricerca Europea (project coordinator), Europêche, the National Research Council (CNR), Energy Systems Catapult, Q-PLAN International, Ricerca Sul Sistema Energetico, SENER and WavEC Offshore Renewables. The tool supports investors, policymakers, and researchers in understanding the financial and technical uncertainties shaping offshore wind economics.

## **FLOWRA and FEM to collaborate – FLOWRA**

The Floating Offshore Wind Technology Research Association (FLOWRA) of Japan and France Energies Marines (FEM) have signed a Memorandum of Understanding (MoU) on 28th October 2025, to explore technology development cooperation in the field of floating offshore wind. Due by the end of 2026, FLOWRA and FEM will explore the establishment of a cooperation framework to address a broad range of topics aimed at reducing development risks and costs, while fostering industry growth in the floating offshore wind sector, including specific joint technology development initiatives. FLOWRA is a technical research association that works with overseas organisations to research and develop common basic technologies for floating offshore wind to reduce costs and risks. FEM is a multidisciplinary research institute dedicated to resolving offshore wind challenges via advanced R&D, public-private partnerships, and knowledge transfer, strengthening France's renewable energy leadership.

## **New multi million pound offshore wind Technology Development Centre opens for business – ORE Catapult**

The Offshore Renewable Energy (ORE) Catapult has opened its new Technology Development Centre today (Friday), boosting opportunities for innovation in the UK's offshore renewables industry in the North East of England. The state-of-the-art £6.3 million two-storey facility will provide testing, validation and demonstration for companies working on products and services to support offshore renewables – adding to the globally unique range of services already available at ORE Catapult's National Renewable Energy Centre in Blyth, Northumberland. The Technology Development Centre houses a 1MW drivetrain test rig to evaluate rotating machine components, a mini electrical grid system where clients can test and certify the electrical compliance of their devices for any grid in the world, a 100kW test rig, dedicated to smaller scale subsystems and early-stage proof of concept work, and a dedicated laboratory to improve the longevity, reliability and performance of critical components working under extreme conditions.