



**26 September 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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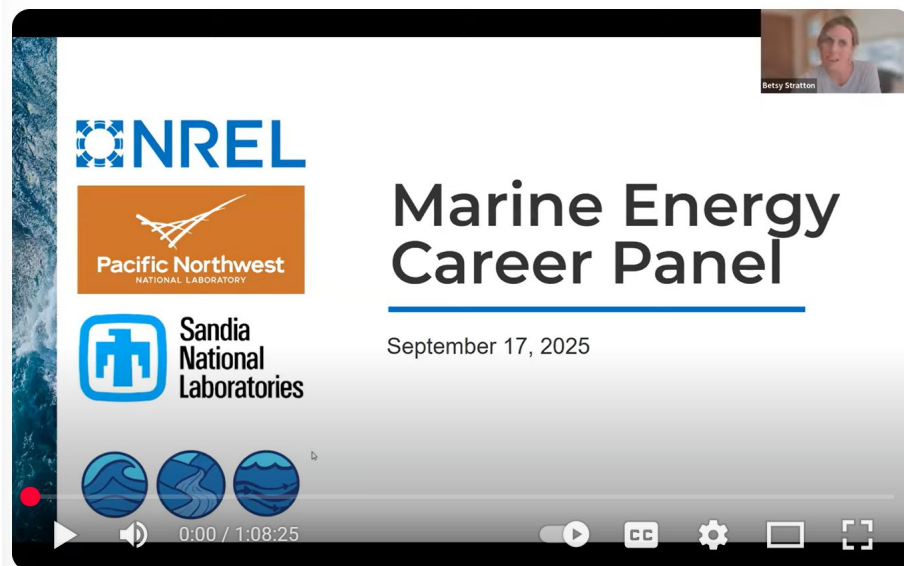
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## Announcements

### Marine Energy Career Panel Recording

Pacific Northwest National Laboratory, National Renewable Energy Laboratory, and Sandia National Laboratories recently hosted an informational [Marine Energy Career Panel](#) that featured U.S. Department of Energy (DOE) National Laboratory staff working to advance the marine energy industry. Watch the recording to learn about their marine energy careers (past, present, and future), including their background, education, career path, and current projects.



### SULI/CCI Applications Open

The U.S. DOE Office of Science is accepting applications for the Spring 2026 term for the [Science Undergraduate Laboratory Internships \(SULI\) program](#) and the [Community College Internships \(CCI\) program](#). Applications are due 1 October 2025.

### SCGSR Applications Open

The U.S. DOE's Office of Science Graduate Student Research (SCGSR) program is accepting applications for the [2025 SCGSR solicitation 2 cycle](#). Applications are due on 5 November 2025. An [application assistance workshop](#) will be held on 9 October 2025 from 2:00-4:30pm EDT.

### INORE OES-BECS Applications Open

The International Network for Offshore Renewable Energy (INORE) has opened the Call for Applications for the [Blue Energy Collaborative Scholarships \(BECS\)](#), sponsored by Ocean Energy Systems (OES). This grant supports research projects that spark collaborations between INOREans or need access to facilities or travel support. Applications are due 31 October 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. A second application period for the Fall 2026 Cohorts will open in December 2025 and close on 27 March 2026.

### Calls for Abstracts

The [Call for Abstracts](#) for the [Pan-American Marine Energy Conference \(PAMEC\)](#) has been extended until 30 September 2025. PAMEC will take place on 10-15 April 2026 in Rio de Janeiro, Brazil.

The [Call for Abstracts](#) for the [39<sup>th</sup> International Conference on Coastal Engineering \(ICCE\)](#) is open through 1 October 2025. ICCE 2026 will take place on 17-22 May 2026 in Galveston, Texas, USA.

The Call for Abstracts for the [45th International Ocean Offshore and Arctic Engineering Conference \(OMAE 2026\)](#) is open through 13 October 2025. OMAE 2026 will take place on 7-12 June 2026 in Tokyo, Japan.

The [Call for Abstracts](#) for the [European Energy Research \(EERA\) DeepWind Offshore Wind Research and Innovation Conference](#) is open through 15 October 2025. The conference will take place on 14-16 January 2026 in Trondheim, Norway.

The [Call for Abstracts/Papers](#) is open for the [36th International Ocean and Polar Engineering Conference \(ISOPE 2026\)](#) through 17 October 2025. ISOPE 2026 will take place from 31 May to 5 June 2026 in Orlando, Florida, USA.

The Call for Abstracts for the [11th International Ocean Thermal Energy Conversion \(OTEC\) Symposium](#) is open through 31 October 2025. The Symposium will take place on 2-3 December 2025 in Kuala Lumpur, Malaysia.

### Funding & Testing Opportunities

The Maine Governor's Energy Office has issued a [Request for Applications \(RFA\)](#) titled, [Maine BlueTech Innovation: Offshore Wind Monitoring and Testing](#), to advance research at the University of Maine's quarter-scale floating offshore wind demonstration project. The RFA will provide a unique in-water opportunity for small businesses to test innovative BlueTech and monitoring approaches at the site. Applications are due by 8 October 2025.

The Clean Energy Transition Partnership (CETPartnership) has opened the [CETPartnership Joint Call 2025](#), which includes a [Call Module](#) for advanced renewable energy technologies for power production, including wind and ocean energy. Pre-proposal submissions are due 9 October 2025.

American's Seed Fund, powered by the National Science Foundation (NSF), is accepting proposals for the [NSF Small Business Innovation Research/Small Business Technology Transfer \(NSF SBIR/STTR\) Phase 1](#) program. Proposals are due by 5 November 2025.

The U.S. Testing Expertise and Access for Marine Energy Research (TEAMER) program, which supports marine energy testing and development projects, has extended the deadline for [Request for Technical Support \(RFTS\) 17](#) applications until 6 February 2026. RFTS 18 applications will then be accepted until 5 June 2026. Open water support requests are accepted on a rolling basis.

Horizon Europe recently opened several Calls for Proposals, including 1) [Understand and minimise the environmental impacts of offshore wind energy](#), 2) [De-risking wave energy technology development through transnational pre-commercial procurement of wave energy research and development](#), and 3) [Improved reliability and optimised operations and maintenance for wind energy systems](#). Proposals are due by 17 February 2026.

### Career Opportunities

The University of Queensland is offering [three full PhD scholarships](#) to work on the “Advanced Hydrodynamics for Offshore Renewable Energy and Resource: Wind, Solar and Aquaculture” project. Applications are due by 30 September 2025.

Ocean Conservancy is searching for a [Manager for Tribal and Community Partnerships](#) who will support Ocean Conservancy’s continued commitment to building and sustaining partnerships with Tribes, coastal communities, and others in Alaska and the circumpolar Arctic. Applications are due by 3 October 2025.

The Centre for Ocean Energy Research (COER) at Maynooth University is seeking a [Senior/Post Doctoral Researcher](#) to join the INFINITY project, a major European collaboration advancing the reliability and cost-effectiveness of wave energy. Applications are due by 5 October 2025.

Natural Resources Wales is seeking a [Senior Marine Licensing Officer](#) who will be responsible for assessing complex and high-profile marine license applications. Applications are due by 5 October 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. Applications are due by 30 November 2025.

The National Offshore Wind Research and Development Consortium (NOWRDC) is seeking a [Program Manager](#) to oversee a portfolio of research and development projects, support strategic initiatives, and collaborate with partners across industry, academia, government, and NGOs.

Wave Energy Collective (Weco) is hiring an [Electrical Engineer](#) to join its team in The Hague, Netherlands and support development of its wave energy converter.

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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 Supergen Offshore Renewable Energy (ORE) Hub is partnering with the Marine Energy Test Area (META) and the ORE Catapult Marine Energy Engineering Centre (MEECE) to host a webinar, “[Real World Marine Energy Testing - the Benefits and Challenges](#)”, on 30 September 2025 from 1:00-2:00pm BST (12:00-1:00pm UTC). This webinar will explore the current landscape of the marine energy industry in Wales and deep dive into the practical experience of at-sea testing. [Register here.](#)

Electric Power Research Institute (EPRI) is hosting a webinar, “[Wind Wildlife Research: Recent Advances in Understanding Bat Interactions with Wind Turbines Using Thermal Imagery and Acoustics](#)”, on 30 September 2025 from 8:00-9:00am PDT (3:00-4:00pm UTC). The presenters will discuss the results of three projects, led by Stantec, Bowman Consulting, and EPRI, investigating bat behavior and potential attraction hypotheses at multiple wind farms in the U.S.

Offshore Coalition for Energy and Nature (Ocean) is hosting a webinar, “[EMF and the Flounder: Electromagnetic fields \(EMF\) and their consequences for a vital fishery species](#)”, on 1 October 2025 from 11:00am-12:15pm CET (9:00-10:15am UTC). 50Hertz, Europacable, EirGrid, Renewables Grid Initiative, and TenneT have joined forces to conduct and commission studies on EMFs in relation to commercially important flatfish species, specifically European flounder

(*Platichthys flesus*). This webinar will explore the three main goals of the FlatEMF study. [Register here.](#)

OES-Environmental is hosting a webinar, “[Supporting Consenting Processes for Marine Renewable Energy: International Perspectives](#)”, on 2 October 2025 from 8:00-9:30am PDT (3:00-4:30pm UTC). The webinar will include presentations from OES-Environmental, The Crown Estate, AZTI, and University College Cork. [Register here.](#)

The Renewable Energy Wildlife Institute (REWI) is hosting a webinar, “[Cataloging Wildlife Risk Minimization Technologies with the REWI Technology Catalog](#)”, on 2 October 2025 at 2:00pm EDT (6:00pm UTC). The webinar will re-introduce the recently updated REWI Technology Catalog alongside an overview of its intended uses, current features, technologies, and how you can contribute. [Register here.](#)

Renewable Grid Initiative is hosting a Best Practice Webinar, “[Mapping the future grid: Planning energy infrastructure with space and nature in mind](#)”, on 14 October 2025 from 2:30-4:00pm CET (12:30-2:00pm UTC). The webinar aims to foster dialogue on best practices in integrated spatial and energy system planning, including environmental, societal, and spatial considerations. [Register here.](#)

The Marine Environmental Data and Information Network (MEDIN) is hosting the next webinar in the [MEDIN 2025 Webinar Series](#), “Speaking the Same Language: How Controlled Vocabularies Facilitate Data Sharing and Interoperability”, on 22 October 2025 from 2:00-3:00pm BST (1:00-2:00pm UTC).

### Upcoming Workshops

Norwegian Geotechnical Institute (NGI) is hosting a workshop, “[Exploring Challenges and Opportunities in Emerging Ocean Renewables](#)”, on 13 October 2025 in Oslo, Norway and online. Experts from industry and academia will share experiences and discuss current limitations and opportunities within wave, tidal, and floating solar energy. [Register here.](#)

Sandia National Laboratories, the National Renewable Energy Laboratory, Pacific Northwest National Laboratory, Montana State University, Florida Atlantic University, and DOE’s WPTO are hosting a free virtual [Synthetic Mooring Lines Workshop](#) on 15 October 2025 from 9:30am – 1:20pm MDT (3:30-7:30pm UTC). Join to review and discuss the latest technological challenges in manufacturing, testing, characterization, and prediction of performance for synthetic mooring lines within marine energy applications, and help target key focus areas for future work.

### Upcoming Conferences

The Supergen ORE Hub is hosting its [Early Career Autumn Forum 2025](#) on 3 October 2025 online. [Register for free here by 26 September 2025.](#)

The Marine Alliance for Science and Technology for Scotland (MASTS) is hosting the [15<sup>th</sup> MASTS Annual Science Meeting \(ASM\)](#) on 18-20 November 2025 at the University of Strathclyde in Glasgow, Scotland. Early bird registration is available until 28 September 2025.

WavEC Offshore Renewables is hosting its [WavEC Lisbon 2025](#) international seminar on 4 December 2025 in Lisbon, Portugal. This year's theme is "Portugal and Brazil: Transatlantic Alliance to Boost Floating Wind".

[Ocean Sciences Meeting 2026](#) will take place on 22-27 February 2026 in Glasgow, Scotland. Early bird registration is available through 14 January 2026.

The [Environmental Interactions of Marine Renewables Conference \(EIMR 2026\)](#) will take place on 13-17 April 2026 at the Scottish Association for Marine Science near Oban, Scotland.

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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**

### **[Environmental DNA for fish monitoring around tidal energy devices](#) – Hemery et al. 2025**

The analysis of environmental DNA (eDNA) is a relatively new method that uses molecular techniques to detect and identify species from genetic material shed in their environment. This material is collected through water samples and does not require the physical capture or handling of any organisms. A recent project in a tidal channel in Washington State (U.S.) showed that eDNA is a cost-effective, comprehensive, and reliable alternative to conventional methods for evaluating fish presence and habitat use in the context of tidal energy development. The project team developed an understanding of temporal and environmental factors that may affect fish eDNA data throughout seasons and tidal cycles.

### **[Evaluation of macro and meiobenthic community structure and distribution in the hybrid ocean thermal energy conversion discharge area of Port Dickson](#) – Leng et al. 2025**

Over the past two decades, the technology underlying Hybrid Ocean Thermal Energy Conversion (H-OTEC) power plants have progressively matured. These advancements position H-OTEC as a promising alternative energy source with significant potential to replace traditional power plants. The cold discharge from H-OTEC Pilot Plants reduces the temperature of receiving water bodies, thereby directly or indirectly impacting the marine ecological environment. A one-year study was conducted around a pilot-stage 1.0 MW H-OTEC Pilot Plant in Port Dickson to investigate the effects of cold discharge on macro- and meiobenthic communities across different seasons. Apart from the water

temperature within a 5-meter range affected by the H-OTEC cold discharge, the impact on other water quality indicators is negligible.

### **Measuring Marine Electromagnetic Fields: Systems and Applications – D’eu et al. 2025**

This paper explores the application of highly sensitive passive Electromagnetic Field (EMF) measurement systems to address critical challenges in maritime coastal areas, including environmental impact assessment, infrastructure integrity, and underwater surveillance and detection. We present the development and deployment of three innovative systems: PASSEM (vessel-towed), STATEM (static seafloor), and an ROV-mounted system, capable of measuring EMF variations at very low levels. These systems enable the accurate characterization of EMF signatures from anthropogenic and natural sources, crucial for understanding their effects and origins. Results from the SPECIES project demonstrate the systems' efficacy in assessing the EMFs emitted by subsea power cables, supporting sustainable marine energy development.

## **Wind Energy**

### **Monitoring Offshore Windfarm Impacts on the Commercial Fishing Industry Good Practice Guidance – Xodus Group 2025**

Effective monitoring is essential to understand the impacts that Offshore Wind Farms (OWFs) and other marine sectors may have on the commercial fishing industry. The importance of monitoring the potential impacts of OWFs on the commercial fishing industry is reflected in two Scottish Marine Energy Research (ScotMER) evidence maps: the evidence gap identified by the ScotMER Fish and Fisheries Receptor Group, ‘monitoring of commercial fishing activity in the vicinity of OWFs and cables’ (FF.03 2022) and the evidence gap identified by the Socio-Economic Receptor Group ‘how can we improve the monitoring and evaluation (comparing predicted against monitored impacts) of socio-economic impacts?’ (S.07-2022). This Good Practice Guidance document has been commissioned by the Scottish Government to contribute towards addressing these evidence gaps.

### **Bird Survival in Wind Farms by Monte-Carlo Simulation Modelling Based on Wide-Ranging Flight Tracking Data of Multiple Birds During Different Seasons – Yordanov et al. 2025**

Wind energy development is a key component in the transition to sustainable clean energy. Collision probability depends on turbine dimensions and species-specific behaviour, and understanding these relationships is essential for effective Environmental Impact Assessment (EIA). We applied a simulation approach based on flight-height distributions of a medium-sized diurnal raptor, the Common Buzzard (*Buteo buteo*). Long-term Global Positioning System (GPS) tracking data from an area with over 200 operating wind turbines in Northeastern Bulgaria were combined with Monte Carlo simulations of the Band collision risk model, and the predictions were validated against 18 years of systematic carcass searches under 114 turbines.

## **Offshore wind turbines constitute benthic secondary production hotspots on and around constructions – Danheim et al. 2025**

We used a large combined dataset (both hard- and soft-substrate data) to model the secondary production of fouling communities on turbine foundations and of soft-bottom fauna inside and outside offshore wind farms (OWF) in the southern North Sea (Belgium, the Netherlands, Germany). We demonstrate that (1) a large amount of energy is channelled through fouling fauna on turbines (i.e., secondary production of fouling communities was on average 80 times higher than of soft-substrate communities), (2) 71 % of fouling production on turbines is released to the surrounding sediment (annual release:  $-221 \pm 825 \text{ gC m}^{-2} \text{ y}^{-1}$  (SD)), and that (3) local production of soft-bottom communities is elevated up to a distance of 150–250 m from turbines.

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## **News & Press Releases**

### **Marine Energy**

#### **Canada Invests in Environmental Monitoring to Advance Tidal Energy in the Bay of Fundy – Natural Resources Canada**

The Government of Canada is working closely with the province of Nova Scotia, Indigenous communities, academia and industry to support the development of clean technology and energy projects, including tidal projects in the Bay of Fundy. The Honourable Kody Blois, on behalf of the Honourable Tim Hodgson, Minister of Energy and Natural Resources, and the Honourable Joanne Thompson, Minister of Fisheries, recently announced over \$10 million in federal funding for two projects through the Energy Innovation Program: the Ocean Sensors Innovation Platform (OSIP) led by the Fundy Ocean Research Centre for Energy Ltd. (FORCE) and the “Reducing Fish-Turbine Collision Risk Uncertainty in the Minas Passage, Bay of Fundy” project led by Acadia University.

#### **Leonitus Launches Europe’s First Wave-to-Hydrogen Project in Novalja – North Adriatic Hydrogen Valley**

A pilot led by LEONITUS is underway in Žigljen Port, Novalja, combining coastal protection and renewable energy production. As the first project of its kind in Europe under the North Adriatic Clean Hydrogen Investment Platform (NACHIP), this €5.4 million endeavour unites partners from Croatia, Slovenia, and Italy to pioneer green hydrogen production using wave energy. The Novalja project integrates a multifunctional breakwater designed to address coastal erosion while generating clean energy and supporting marine ecosystems. LEONITUS has completed the installation of external units. Work is now focused on deploying servers and sensors to monitor sea waves and currents, optimising the system’s energy conversion efficiency and environmental interactions.

## **California clears key lease for wave-powered desalination pilot – Offshore Energy**

California's State Lands Commission (SLC) has approved Canadian firm Oneka Technologies' lease application for its wave-powered desalination pilot project with the City of Fort Bragg. "This authorization is a key step toward deploying our wave-powered desalination technology," Oneka Technologies said. The company noted that the next steps in the permitting process include regulatory reviews by the US Army Corps of Engineers (USACE), the US Coast Guard (USCG), the California Coastal Commission (CCC), and the California Department of Fish and Wildlife. In June, Oneka Technologies secured one of the regulatory approvals needed to move forward with its wave-powered desalination pilot project off the coast of Fort Bragg, California.

## **From Concept to Current: GKinetic Trials River Turbine in France – Gkinetic Energy**

GKinetic recently announced completion of testing at the Ifremer testing facility in France. As announced in April 2025, GKinetic was granted funding through the RISEnergy Transnational Access Call and it is with huge thanks to RISEnergy that GKinetic brought a 3kW device to Ifremer to complete testing and validation. Testing took place from 9<sup>th</sup> to 19<sup>th</sup> Sept 2025. As part of this project, the company was honoured to have Mr Patrick Frawley, Professor at University of Limerick UL with responsibility for engineering, travel to Ifremer during the test period, to collaborate and authenticate the research results. The Ifremer lab is equipped with an advanced 3D Laser Doppler Velocimeter (LDV) and Particle Image Velocimeter system (PIV). This equipment gathers data that can be used to map the 3 dimensional flow around the turbine.

## **Invitation to showcase of tidal energy kite "Dragon 4" at Minesto workshop in Gothenburg, 8 October 2025 – Minesto**

Minesto invites investors and the public with an interest in technology, energy systems and climate innovations to a unique opportunity to experience firsthand the tidal energy kite Dragon 4 "Íðunn" as she is brought home for a break from production duty at the company's demonstration site in the North Atlantic where it produces electricity to the Faroe Islands grid. The event will take place at Minesto workshop in Gothenburg, Sweden on 8 October 2025, 17.00-19.00. Minesto, Swedish innovative scale-up company headquartered in Gothenburg, possesses a unique, proven, and commercially viable technology underway to contribute to the global energy transition by making 100% renewable energy systems affordable.

## **Wind Energy**

### **France: TotalEnergies Selected by the State as Operator of the Country's Largest Renewable Energy Project – TotalEnergies**

The consortium formed by TotalEnergies and RWE has been selected by the Ministry in charge of Industry and Energy as the winner of the Centre Manche 2 (AO8) offshore wind tender. The consortium will be responsible for designing, developing, building, and

operating a 1.5 GW offshore wind farm off the coast of Normandy. Located more than 40 km off the coast of Normandy, this will be the largest renewable energy project ever developed in France. Once built, it will generate approximately 6 TWh per year and supply green electricity to the equivalent of over 1 million French households. The electricity will be sold at a competitive price of €66/MWh, as set by the tender. As part of a strategic review of its investments, RWE has expressed the wish to exit the consortium, subject to French authorities' approval.

### **Government of Canada and Nova Scotia Set Direction for Offshore Wind Future – Natural Resources Canada**

The Honourable Sean Fraser, Minister of Justice and Attorney General of Canada and Minister responsible for the Atlantic Canada Opportunities Agency, on behalf of the Honourable Tim Hodgson, Canada's Minister of Energy and Natural Resources, and Nova Scotia Minister of Energy Trevor Boudreau recently announced that both governments provided Strategic Direction to the Canada–Nova Scotia Offshore Energy Regulator. Following the recent designation of the Wind Energy Areas, this represents Canada and Nova Scotia taking the next step toward realizing Canada's first-ever offshore wind project. The Regulator now will implement a prequalification process and a Call for Information to attract qualified investments and provide an opportunity for the public, Indigenous groups and stakeholders to inform the path forward.

### **Van Oord and Ecowende kick off with nature-enhancing scour protection – EcoWende**

Offshore operations at our Hollandse Kust West wind farm have officially commenced with the start of eco-friendly scour protection works. This marks a significant milestone for the wind farm that has the ambition to become the most ecological wind farm to date. Van Oord's subsea rock installation vessels Nordnes and Bravenes have been deployed to install scour protection optimised to enhance marine biodiversity. Scour protection is installed around the base of a monopile to prevent erosion caused by strong currents and waves. By stabilising the seabed, it ensures the structural integrity of the turbine foundation. For Hollandse Kust West, the scour protection design is being taken to a new, nature-inclusive level.

### **Government progresses renewable energy agenda with publication of National Designated Maritime Area Plan Proposal – Government of Ireland**

The Minister for Climate, Energy and the Environment, Darragh O'Brien, and the Minister of State at the Department of Climate, Energy and the Environment with responsibility for Fisheries and the Marine, Timmy Dooley, recently announced the publication of the National Designated Maritime Area Plan (DMAP) for Offshore Renewable Energy (ORE) Proposal and accompanying Public Participation Statement (PPS). The National DMAP for Offshore Renewable Energy will be a strategic plan that outlines the development and management of offshore renewable energy resources off Ireland's coast. It will provide a clear framework for developing offshore renewable

energy, balancing economic growth, environmental protection, and community engagement to support Ireland's transition to a low-carbon future.

### **FLOWRA and EMEC to collaborate – EMEC**

The Floating Offshore Wind Power Technology Research Association (FLOWRA) of Japan and The European Marine Energy Centre (EMEC) Limited have signed a Memorandum of Understanding to explore technology development cooperation in the field of floating offshore wind. FLOWRA and EMEC will explore the possibilities of collaboration in establishing and managing an offshore test and demonstration site for floating wind technology development. 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. Based in Orkney, Scotland, EMEC is the world's leading accredited test laboratory for demonstrating new marine energy technologies.