

TETHYS BLAST

18 July 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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Announcements

Software Demo Days Recordings on YouTube

Over the past few months, the U.S. Department of Energy's (DOE) Water Power Technologies Office (WPTO) and Portal and Repository for Information on Marine Renewable Energy ([PRIMRE](#)) team hosted an internal [Software Demo Days](#) series to increase awareness and use of WPTO-funded, open-source software. Presentation recordings are now available on [YouTube](#) for [PRIMRE](#), [OpenFAST](#), [WEC-Sim](#), [MoorDyn](#), [MHKiT](#), [MBARI-WEC](#), and [WecOptTool](#). Hear from the software developers themselves on the mathematical theories behind their software, their use cases and capabilities, and demos of them in action!

PRIMRE

Software Demo Days
Portal and Repository of Information on
Marine Renewable Energy (PRIMRE)

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Pacific Northwest National Laboratory is operated by Battelle for the U.S. Department of Energy under contract DE-AC05-76RL01830. The National Renewable Energy Laboratory is a national laboratory for the U.S. Department of Energy operating under contract No. DE-AC36-08G028308. Sandia National Laboratories is a multi-mission laboratory managed and operated by National Technology & Engineering Solutions of Sandia, LLC, a wholly owned subsidiary of Honeywell International Inc., for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-NA0003525.

U.S. DEPARTMENT OF ENERGY
NREL
Pacific Northwest
Sandia National Laboratories
NTESS

SULI/CCI Applications Open

The U.S. DOE's Office of Science is now accepting applications for the Spring 2026 term for the [Science Undergraduate Laboratory Internships \(SULI\) program](#) and the [Community College Internships \(CCI\) program](#). Join the [CCI Applicant Support Workshop](#) on 6 August 2025 and the [SULI Applicant Support Workshop](#) on 14 August 2025. Applications are due 1 October 2025.

Marine Energy Career Panel

Pacific Northwest National Laboratory, National Renewable Energy Laboratory, and Sandia National Laboratories have teamed up for an informational [Marine Energy Career Panel](#) on 17 September 2025 from 2:00-3:30pm PDT (9:00-10:30pm UTC). Staff across various research disciplines will discuss their marine energy careers (past, present, and future) including their background, education, career path, and current projects. [Register here](#).

Request for Proposals

Battelle Memorial Institute, Management & Operating Contractor of the U.S. Department of Energy's Pacific Northwest National Laboratory, is [requesting proposals for a tidal turbine system](#). Interested parties are invited to submit a proposal by 5 September 2025.

Calls for Abstracts

Net Zero Atlantic has opened the Call for Abstracts for the [Nova Scotia Offshore Wind Research & Development Forum 2025](#) until 24 July 2025. The forum will take place on 24 September 2025 in Halifax, Nova Scotia, Canada.

The American Geophysical Union (AGU) has opened the [Call for Abstracts](#) for the [AGU 2025 Annual Meeting](#) until 30 July 2025. AGU25 will take place on 15-19 December 2025 in New Orleans, Louisiana, USA.

The Call for Abstracts for the [4th Australia and New Zealand Wind Waves Symposium](#) is open through 1 August 2025. The Symposium will take place 17-18 November 2025 at The University of Western Australia in Perth, Western Australia.

The [Call for Abstracts](#) for the [Ocean Sciences Meeting \(OSM\) 2026](#) is open until 20 August 2025. OSM 2026 will take place on 22-27 February 2026 in Glasgow, Scotland.

The Marine Alliance for Science and Technology for Scotland (MASTS) has opened the Call for Abstracts for the [15th MASTS Annual Science Meeting \(ASM\)](#) until 29 August 2025. The ASM will take place on 18-20 November 2025 at the University of Strathclyde in Glasgow, Scotland.

The [Call for Abstracts](#) for the [Pan-American Marine Energy Conference \(PAMEC\)](#) is now open until 15 September 2025. PAMEC will take place on 12-15 April 2026 in Rio de Janeiro, Brazil.

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.

Funding & Testing Opportunities

University of California San Diego is accepting applications for its [StartBlue Ocean Enterprise Accelerator](#) program, which is a four-month program designed to help ocean intelligence startups launch and scale to support the ocean enterprise and grow the blue economy. Applications are due 31 July 2025.

Offshore Renewable Energy Catapult is accepting applications for the [Wales Innovation in Marine Monitoring Competition](#), which aims to provide targeted support and remove barriers to encourage UK marine monitoring businesses to enter the offshore wind supply chain, enabling the development of Irish and Celtic Sea projects. Applications are due 31 August 2025.

The Offshore Wind Growth Partnership has opened applications for the [Wind Expert Support Toolkit \(WEST\)](#) programme. WEST is a short-term intervention activity which aims to support growth of UK offshore wind supply chain companies through provision of specialist advice, market intelligence, and strategic insight into the sector. Applications are due 5 September 2025.

The Testing Expertise and Access for Marine Energy Research (TEAMER) program, sponsored by the U.S. Department of Energy and directed by the Pacific Ocean Energy Trust (POET), is accepting [Request for Technical Support \(RFTS\) 17](#) applications through 3 October 2025 to support marine energy testing and development projects.

Career Opportunities

Natural Power is hiring a [Senior Environmental Consultant](#) specializing in marine ecology survey management and delivery. The main purpose of the role is to grow, manage, and deliver Natural Power's offshore ecological survey capabilities. Applications are due by 20 July 2025.

Joint Nature Conservation Committee (JNCC) is looking for a [Marine Survey Ecologist](#) to join the Marine Monitoring Team and support the planning and delivery of our offshore UK marine surveys and associated projects. Applications are due by 20 July 2025.

Oregon State University is seeking a [PacWave Commercial Manager](#) who will be responsible for developing and leading PacWave's commercial team, and identifying, securing, and managing commercial opportunities to support its long-term growth. Applications are due by 26 July 2025.

The Home Office (England) is seeking a [Chief Scientific Adviser](#) to play a crucial role in ensuring that science, technology, research and evidence-based insights underpin policymaking and operational decisions. Applications are due by 28 July 2025.

West Coast Ocean Alliance (WCOA) is currently hiring a [Project Manager](#) to join its core contract staff team and support all project activities, government member engagement, and the

tracking of current and future WCOA funding implementation. Applications will be reviewed on a rolling basis beginning on 28 July 2025.

University of Tasmania is offering a funded PhD project focused on [Offshore Wind-Mariculture Hydrodynamics](#), which intends to systematically investigate the hydrodynamic interactions and loading conditions between offshore seaweed production facilities and floating offshore wind turbine structures. Applications are due by 1 August 2025.

University of Southampton is offering a funded PhD project focused on [Machine Learning for multi-channel underwater acoustic data](#). This project aims to develop machine learning techniques for processing data collected from an array of hydrophones sited off the Sussex coast. Applications are due by 31 August 2025.

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

Marine Renewables Canada is hosting the next installment of its Ask an Expert offshore wind webinar series, “[Charting Co-Existence: International Insights into Offshore Wind and Fisheries](#)”, on 23 July 2025 from 1:00-2:00pm EDT (5:00-6:00pm UTC).

The New York State Energy Research and Development Authority (NYSERDA) is hosting a webinar, “[Learning from the Experts: Benthic Habitat Research for Offshore Wind](#)”, on 30 July 2025 from 1:00-2:00pm EDT (5:00-6:00pm UTC).

Upcoming Workshops

Pacific Northwest National Laboratory and OES–Environmental are hosting a workshop, “[Environmental Effects of Off-Grid Marine Energy](#)”, on 12 August 2025 from 10:00am-12:00pm PDT. The workshop is part of the [Ocean Renewable Energy Conference \(OREC\) and University Marine Energy Research Community \(UMERC\) Conference](#), which will take place 12-14 August 2025 in Corvallis, Oregon, USA.

The Portal and Repository for Marine Renewable Energy (PRIMRE) team is also hosting a workshop, “[PRIMRE Workshop: Choose Your Own Data Adventure](#)”, on 13 August 2025 from 3:00-5:00pm PDT, as part of [OREC+UMERC 2025](#).

Upcoming Course

The Scottish Association for Marine Science (SAMS) is offering a 3-day [Environmental Monitoring Using Multi-Platform Technology Course](#) on 3-5 September 2025 in Oban, Scotland.

Upcoming Conferences

The [16th European Wave and Tidal Energy Conference \(EWTEC 2025\)](#) will take place on 7-11 September 2025 in Madeira, Portugal.

Marine Technology Society is hosting a [Fisheries & Benthic Monitoring TechSurge](#) on 8-9 October 2025 in Narragansett, Rhode Island, USA. Early bird registration ends 8 August 2025.

The [Ocean Energy Europe 2025 Conference & Exhibition](#) will take place 4-5 November 2025 in Brussels, Belgium. Early bird registration ends 31 July 2025.

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

[Evaluating the Transferability of Marine Mammal Data Between Tidal Stream Energy Developments \(2025\) – Phillips et al. 2025](#)

The Crown Estate identified a need to ensure that data and evidence from already consented tidal stream projects are readily available, and where possible transferable, to tidal stream projects subject to consenting or to those that have already been consented. This work aims to pinpoint areas where scientific uncertainty can be minimised, allowing research and monitoring efforts to focus on critical evidence gaps. ABP Marine Environmental Research Ltd. (“ABPmer”) and The Crown Estate have developed a data transferability matrix that can be used by regulators/advisors and industry developers to provide an indication of the extent to which existing tidal stream energy datasets are transferable to another project. In addition, an accompanying guidance framework has been developed to provide direction and key principles when considering data transferability.

[Identifying convergences and divergences of social and technical considerations for the development of marine energy policy – Wade and D’Anna 2025](#)

Increasing social acceptance of marine energy is a critical socio-political priority in the renewable energy sector. Policy adoption relies not only on social acceptance but also on how stakeholders conceptualize marine energy within cultural, economic, environmental, and social contexts. However, there is limited understanding of these conceptualizations, particularly in regions where marine energy is still emerging. Given its nascent stage, capturing these initial perspectives is essential for designing policies that align with stakeholder needs. This study uses a qualitative approach to examine how three stakeholder groups in North Carolina, a region where marine energy development is in its infancy, conceptualize its introduction. Our findings reveal four key themes highlighting

differences in stakeholder knowledge, interpretation, and perceptions of risks and benefits.

The contribution of the SafeWAVE EU project to the future development of ocean energy – Bald et al. 2025

The development of marine renewable energies and wave energy (WE) in particular, are vital components of sustainable ocean governance and the transition towards a low-carbon economy. In a new industry like marine renewable energy (MRE), and Wave Energy (WE) in particular, time-consuming procedures linked to uncertainty about project environmental impacts, the need to consult with numerous stakeholders and potential conflicts with other marine users appear to be the main obstacles to consenting WE projects. These are considered as non-technological barriers that could hinder the future development of WE in EU. Through three different strategies (environmental demonstration strategy, consenting and planning strategy and education and public engagement strategy), the aim of the SafeWAVE project has been to contribute to overcome these barriers through the knowledge and tools developed during the project life.

Wind Energy

A global review of Procellariiform flight height, flight speed and nocturnal activity: Implications for offshore wind farm collision risk – Miller et al. 2025

Offshore wind farms are a key component of the transition to renewable energy generation and are planned globally. Procellariiformes (albatrosses, petrels, shearwaters and storm-petrels) include the most threatened and abundant seabird families, yet their risk of collision with offshore wind turbines remains virtually unquantified because we lack the ecological information necessary to parametrise Collision Risk Models (CRMs). However, Procellariiformes are relatively well-studied in academic literature, presenting the opportunity for systematic review through a collision-risk lens. Here, we conduct meta-analyses to calculate species-level values for core CRM parameters: flight height, flight speed and nocturnal flight. Our systematic review returned 163 studies, providing excellent species coverage (>1 parameter value for 119 of the 145 Procellariiform species).

Green energy's sweet surprise: unraveling the hidden links between wind farms and honey production – Yıldız et al. 2025

As global energy demand grows, wind power has emerged as a key component of green energy innovation. However, concerns have been raised about its potential ecological impacts, particularly on pollinators such as bees. Unlike previous studies, which have mainly focused on wind farms and bee behavior, this study uses data from six provinces in the Aegean region of Türkiye to examine, for the first time, the relationship between wind farms and agricultural productivity, specifically honey production. By combining different explanatory variables and evaluating the potential positive or negative effects of

wind farm proximity on beekeeping, this study uses a Gaussian treatment effects model to assess how site selection affects honey production. The analysis is further supported by additional t-tests (mean differences) comparing actual honey yields from areas near wind farms with hypothetical yields from non-wind farm areas.

Offshore wind farms act as de facto marine reserves – Fitkov-Norris et al. 2025

Marine biodiversity faces increasing threats, necessitating effective conservation strategies beyond just marine protected areas. As offshore wind farms (OWFs) expand to meet the demand for renewable energy, these could offer an additional benefit by restricting fishing, one of the greatest threats to marine ecosystems globally. However, this remains untested at scale. Here we assessed the impact of OWF construction on fishing effort across 34 European OWFs from 2016 to 2022. Our findings reveal a significant reduction in overall fishing effort up to 2.5 km beyond OWF borders. Seiners and trawlers are most restricted (up to 4.2 km and 3.7 km respectively), while fixed gear and dredge fisheries showed no significant reduction. These results highlight the de facto exclusionary effect of OWFs on fishing, extending well beyond their boundaries.

News & Press Releases

Marine Energy

Consortium Including Eco Wave Power Secures EUR 2.45 Million Grant to Deploy Scalable Wave Energy Solutions Across Atlantic Region – Eco Wave Power

Eco Wave Power, a leader in onshore wave energy technology, recently announced its participation in the Atlantic Wave Energy Sustainable Deployment Initiative (AWESDI) – a newly approved €2.45 million transnational project funded under the Interreg Atlantic Area Programme's Third Call for Proposals. The project, which targets Priority 2.1 of the Atlantic Area Programme, promoting energy efficiency and reducing greenhouse gas emissions, aims to advance the sustainable and scalable deployment of wave energy technologies in Atlantic coastal regions. The AWESDI project is coordinated by the Centro de Investigación Mariña (CIM) of the University of Vigo and brings together an international consortium of top research institutions, private sector leaders, and government organizations from Portugal, Spain, France, and Ireland.

Inyanga secures funding to deliver major renewable energy project – Inyanga Marine

Inyanga Marine Energy Group has raised a further £3.7m of investment from a group of investors that includes the British Business Bank via The FSE Group, Welsh Ministers via Local Partnerships, and business angels including the FSE Investor Network. Falmouth based Inyanga provides specialist project management, consultancy, and technology development services for the delivery of offshore renewable energy projects. The company is also a world leader in the development of tidal energy technology with its ground-breaking HydroWing technology. Inyanga's patented HydroWing technology

is right at the cutting edge of tidal energy devices and is on course to be deployed at Morlais Tidal Energy Project – a grid connected tidal stream project located in the Irish Sea off the coast of Anglesey, Wales, with the potential to generate up to 240MW of low carbon clean electricity. The landmark 35 km² site will be operational from 2026.

CorPower Ocean welcomes Acario (Tokyo Gas) and GTT Group as strategic investors. – CorPower Ocean

CorPower Ocean, a global leader in wave energy technology, has secured two new strategic investors – Acario, the Silicon Valley-based venture investment arm of Tokyo Gas, and GTT Strategic Ventures, the investment fund of French technology and engineering group GTT, as part of its Series B funding round. The investment builds on CorPower Ocean's earlier €32 million Series B1 raise, marking a significant milestone in scaling wave energy as a mainstream, bankable source of clean electricity. Tokyo Gas, one of Japan's largest energy utilities and a major investor in renewable energy, and GTT Group, a global leader in cryogenic technologies for liquefied gas transport, bring strong industrial alignment, engineering expertise, and global credibility to CorPower Ocean's commercial scale-up journey.

Wales and Galicia join forces to advance tidal energy blades – Morlais Energy

A new project to develop next-generation tidal turbine blades is underway in Wales, bringing together leading organisations from across the marine energy sector. Menter Môn Morlais Ltd, the owner of Europe's largest consented tidal energy scheme, is playing a central role in driving this initiative forward. Backed by £1million Welsh Government funding through the VInnovate programme, the project aims to design turbine blades that are more efficient and durable, ready for deployment in harsh tidal environments off the coast of Ynys Môn (Anglesey). The initiative sees AMRC Cymru, ORE Catapult, and Menter Môn's Morlais project partner with Galician firms Magallanes Renovables and D3 Applied Technologies. The collaboration combines advanced manufacturing expertise, innovative design capabilities, and experience in marine energy and will further strengthen Wales's position as a prominent player in tidal technology.

Wave Generator Created by Engineering Teams Could Charge Marine Corps Batteries – California Polytechnic State University (Cal Poly)

Nine Cal Poly graduates lowered their yearlong senior project — a compact wave-powered generator designed to replace the diesel units Marines truck ashore to recharge batteries in remote coastal zones — into Morro Bay's swells in late May. Each rise and fall lifted its frame and spun its gears, sending a flicker across the voltmeter as proof that wave energy can bolster frontline missions. Five mechanical and four electrical engineering students teamed up with the Naval Facilities Engineering and Expeditionary Warfare Center (NAVFAC EXWC) to build the Expeditionary Ocean Power Generator. The concept sprang from a critical need: give Marine Corps warfighters charged batteries on deployment without diesel. Rather than trucking bulky generators ashore, operators

simply toss a point-absorber wave energy converter — a lightweight frame tethered to the seabed — into the surf and harvest electricity over time.

Wind Energy

[Baltic Power Confirms First Successful Installations of the Offshore Wind Turbines for Poland's First Offshore Wind Farm](#) – Baltic Power

Baltic Power project, a joint venture between ORLEN Group and Northland Power, confirmed the first successful installation of the first 15-MW offshore wind turbine. In total 76 turbines will be installed at the Poland's first offshore wind farm, estimated to cover 3% of national electricity demand. Commissioning is expected in 2026. Baltic Power is the 2nd offshore wind farm in Europe to install 15 MW turbines, one of the largest available on the global markets. The V236-15 turbines are manufactured by Vestas. The blades measure ~115 m and provide over 43,7k m² swept area (more than 6 football fields). With towers reaching 120 meters tall, the turbine's total height exceeds 260 meters. Top parts of Baltic Power's towers have been manufactured using recycled steel. Polish offshore wind farm is the first project to use this solution. The nacelles exceed a 3-story household building in size.

[Harvest time at world's first co-located seaweed farm and offshore windfarm](#) – Plymouth Marine Laboratory

The first-ever harvest at North Sea Farm 1, a commercial-scale seaweed farm positioned in an area of wind turbines off the coast of the Netherlands in the North Sea has been successfully achieved. The farm has been created by North Sea Farmers, a non-profit supported by Amazon's Right Now Climate Fund, a \$100 million initiative dedicated to "climate and biodiversity projects that benefit both people and the planet". The innovative project has received €2 million funding from the fund. Plymouth Marine Laboratory (PML) is leading the scientific study that will investigate the potential climate change and biodiversity benefits of farming seaweed alongside offshore wind farms. This harvest will provide the research team with valuable insights into the extent seaweed farms remove carbon from the atmosphere, their contribution to climate resilience and how to sustainably scale the cultivation of seaweed globally.

[RWE and ARC marine celebrate milestone success in promoting marine biodiversity with eco-engineered scour protection at Rampion Offshore Wind Farm](#) – RWE

RWE, one of the world's leading renewable energy companies, in partnership with ARC marine, an industry leading marine nature inclusive design specialist, is celebrating the progress of their joint pilot project, Reef Enhancement for Scour Protection (RESP), at the Rampion Offshore Wind Farm. This first of its kind initiative, co-funded by Innovate UK, is delivering sustainable, nature-inclusive reef cubes® as an alternative to traditional rock scour protection, enhancing marine biodiversity while safeguarding critical offshore infrastructure. Over the past 18 months, the RESP project has achieved several key milestones, marking significant progress in the application of reef cubes® as a scour

protection solution that can also achieve positive outcomes for biodiversity. The team successfully completed hydrodynamic stability testing of the reef cube® scour pad at HR Wallingford's advanced physical modelling facilities.

**Landmark new research funded to shape the future of “Marine Artificial Structures”:
from oil and gas platforms to offshore wind structures – Plymouth Marine Laboratory**

There is a growing body of evidence on the effects on the marine environment of offshore oil, gas, and wind energy infrastructure, as well as shipwrecks, collectively known as marine artificial structures (MAS). Led by PML's Professor Nicola Beaumont, the Value of Marine Artificial Structures (ValMAS) project aims to support a just, nature-positive, and economically efficient transition to low-carbon offshore infrastructure. This ambitious four-year programme will generate vital new evidence on how MAS impact the ocean environment, economy, and society. It is co-funded by Natural Environment Research Council (NERC) and the industry-sponsored INSITE Programme. The transdisciplinary project will involve 19 scientists from PML, with specialisms ranging from social science to marine systems modelling, and earth observation to marine ecology.

**Oceanic Wind Energy Inc. and Coast Tsimshian Enterprises Ltd. Secure IUP for Offshore
Wind Development in Hecate Strait – Oceanic Wind Energy**

Oceanic Wind Energy Inc. (“Oceanic”) recently announced a major milestone in the advancement of the offshore wind project in Hecate Strait, located just west of Stephens Island. In partnership with Coast Tsimshian Enterprises Ltd. (“CTE”), Oceanic has been jointly granted an Investigative Use Permit (IUP) for the first phase of development, targeting a capacity of 600 to 700 megawatts (MW). CTE is a 50/50 partnership of the Metlakatla and Lax Kw'alaams First Nations. “This agreement brings Oceanic and CTE a major step closer to realizing Canada's first offshore wind project,” said Mike O'Connor, President, Oceanic Wind Energy Inc. Hecate Strait, in Northwest British Columbia, is home to one of the world's most powerful and consistent wind resources. The project could play a critical role in supporting the energy demands of the Port of Prince Rupert and the expanding industrial and resource sectors across Northwest BC.