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[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. [Email us](#) to contribute!

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Announcements

Survey on Marine Energy in Tropical & Subtropical Countries

[OES-Environmental](#) is conducting a short [survey](#) to collect information about the potential environmental effects of marine energy development in tropical and subtropical countries. We are looking for information on any active or planned marine energy projects in these regions; any research, monitoring, or modeling efforts; and any relevant literature or other resources. We are also looking for contacts and/or organizations with experience and interest in these areas.

ORISE Applications Open

Applications for the U.S Department of Energy (DOE) [Oak Ridge Institute for Science and Education \(ORISE\) Science and Technology Fellowship](#) are now open! ORISE offers early-career professionals the opportunity to contribute their expertise to energy research by guiding strategy, designing funding programs, and managing projects. Apply by 31 July 2026.

NYSERDA Request for Information

The New York State Energy Research and Development Authority (NYERDA) has released a [Request for Information](#) to solicit input from interested stakeholders to inform its Environmental Research Program in developing a new Marine and Coastal Resources Energy Research Plan to address information gaps and research needs related to energy development and operation on the environment and fisheries. Respond by 31 July 2026.

Calls for Abstracts & Papers

The [Call for Town Halls and Panel Sessions](#) for [OCEANS 2026 Monterey](#) is open until 20 July 2026. OCEANS 2026 Monterey will take place on 21–24 September 2026 in Monterey, California, USA.

The [Call for Abstracts](#) for the [American Geophysical Union \(AGU\) 2026 Annual Meeting](#) is open until 5 August 2026. Submissions are open for the oral and poster sessions, “[Marine Energy Technologies & Resource Characterization](#)”. AGU 2026 will take place on 7–11 December 2026 in San Francisco, CA, USA.

Marine Technology Society (MTS) has opened the [Call for Abstracts](#) for its [TechSurge on Next-Generation Maritime Autonomy: Uncrewed Maritime Systems Across Surface and Undersea Environments](#) until 7 August 2026. The TechSurge will take place on 6–8 October 2026 in Arlington, Virginia, USA.

The Association of Fish and Wildlife Agencies (AFWA) has opened the [Call for Workshop & Related Meeting Requests](#) for the [116th Annual AWFA Meeting](#) until 14 August 2026. The meeting will take place on 14–18 September 2026 in Lancaster, Pennsylvania, USA.

The Marine Alliance for Science and Technology for Scotland (MASTS) has opened the Call for Abstracts for the [MASTS 2026 Annual Science Meeting](#) until 31 August 2026. The meeting will take place on 10–12 November 2026 at the University of Strathclyde in Glasgow, Scotland.

The [Call for Abstracts](#) for the [12th International Ocean Thermal Energy Conversion \(OTEC\) Symposium](#) is open until 15 September 2026. The symposium will take place from 30 November to 4 December 2026 in Bora Bora, French Polynesia.

The [Call for Abstracts](#) for the [European Energy Research Alliance \(EERA\) DeepWind 2026 Conference](#) is open until 14 October 2026. The EERA DeepWind conference will take place on 13–15 January 2027 in Trondheim, Norway.

Funding & Testing Opportunities

ORESA (Offshore Renewable Energy Sustainability Alliance) has opened applications for its [3rd Innovation Call - Accelerator Programme](#), which supports SMEs in the North-West Europe region who are developing innovative products, technologies, or services within the offshore renewable energy sector. Apply by 24 July 2026 to join an intensive training week in Brest, France (16–20 November 2026).

The Offshore Wind Innovation Hub Innovator Program, which supports the advancement of offshore wind in New York and across the U.S. by accelerating impactful and scalable innovations, has opened its [2026 Call for Innovators](#). The program is seeking offshore wind technologies that can maximize the performance and value of existing and near-term projects, including environmental monitoring and coexistence technologies. Apply by 27 July 2026.

Natural Resources Canada's Offshore Wind Predevelopment (OWP) Program has opened Round 2 of its [Call for Proposals for Offshore Wind Indigenous and Coastal Communities Grant Funding](#). The OWP Program can provide grant funding up to \$10,000 per fiscal year per applicant, until 31 March 2028, to support engagement activities related to offshore wind development. Apply by 31 August 2026.

Ocean Exchange, in partnership with the Marine Environmental Observation, Prediction and Response Network (MEOPAR), has launched a new [Call for Solutions](#) focused on advancing ocean, Great Lakes, and St. Lawrence River sustainability through the innovative use of artificial intelligence and ocean data. One Canadian startup, nonprofit, researcher, or organization will receive a CAD \$100,000 Ocean Exchange Neptune Award. Apply by 25 August 2026.

VentureWell has opened applications for Stages 0 and 1 of its [Ocean Enterprise Accelerator](#), which supports U.S. innovators with the development, commercialization, and adoption of new ocean data technologies and services. The Stage 0 Fall 2026 application deadline is August 25. An [informational session](#) will take place on 10 August 2026 from 4:00–5:00pm EDT (8:00–9:00pm UTC).

The U.S. Testing Expertise and Access for Marine Energy Research (TEAMER) program, which supports marine energy testing and development projects, is accepting [Request for Technical Support \(RFTS\) 19](#) applications until 2 October 2026. TEAMER now provides [expertise, non-open water, and open water support](#), as well as [commercialization support](#).

Career & Internship Opportunities

Pacific Northwest National Laboratory is hiring a [Data Scientist - Field Robotics and AI](#) to support its Coastal Sciences Division, which conducts research related to marine and coastal resources, environmental chemistry, water resources modeling, marine engineering, environmental modeling and monitoring, and national security. Apply by 22 July 2026.

Ecodetect, which designs and deploys advanced seabed- and surface-mounted monitoring and communications systems that provide continuous, high-resolution detection of marine wildlife and man-made objects around offshore infrastructure, is hiring a part-time [Business Development Associate](#) to help grow the business. Apply by 24 July 2026.

Heriot-Watt University is looking for an [Assistant Professor in Marine Energy](#) with research interests in offshore wind, wave, or tidal technologies, including hydrodynamics and resource assessment, understanding marine energy array and device interaction, application of robotics to marine renewables, and environmental engineering (to minimize environmental and social impact). Apply by 26 July 2026.

Cal Poly Humboldt's Schatz Energy Research Center is seeking one to two [Senior Project Engineers](#) to support the development and implementation of clean energy microgrid and distributed energy projects. Apply by 29 July 2026.

The University of Strathclyde is offering a [fully funded PhD opportunity](#) that will investigate the use of large-scale cultivated kelp farms as floating breakwaters to protect offshore wind assets. Apply by 31 July 2026.

Marine Renewables Canada (MRC) is seeking a [Manager, Offshore Wind Supply Chain & Workforce](#) to provide technical leadership, project management, engagement, and strategic coordination for a two-year program focused on supplier, workforce, and community readiness for Nova Scotia's offshore wind sector. Apply by 31 July 2026.

Scottish Association for Marine Science (SAMS) is hiring a [PDRA in Active Acoustic Monitoring of Offshore Wind Ecosystem Effects](#). The position offers an exciting opportunity to integrate multi-modal active acoustic observations with physical oceanographic datasets to help maximize the benefits of offshore wind. Apply by 3 August 2026.

The Institute of Integrated Energy Systems (IESVic) at the University of Victoria is inviting applications for a [Postdoctoral Researcher in Energy Systems and Carbon Capture](#). The successful candidate will help direct innovative research at the intersection of carbon capture and energy systems, helping advance both theoretical and applied aspects.

Ocean Conservancy is hiring a [Senior Director, Clean Energy and Climate Diplomacy](#) to provide strategic leadership to implement the institution's climate mitigation, clean energy, and conservation impact priorities.

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 Native American Fish and Wildlife Society (NAFWS) and Renewable Energy Wildlife Institute (REWI) are hosting a [Wind Energy & Wildlife: Tribal Listening Sessions Information Webinar](#) on 21 July 2026 from 2:00-3:00pm MDT (8:00-9:00pm UTC). This webinar will cover key wildlife concerns, strategies to reduce impacts, current research, and opportunities to inform future wind-wildlife research priorities.

NetZero Atlantic is hosting a webinar, "[Onshore Wind Digital Awareness & Education Campaign: Insights from Nova Scotia](#)," on 23 July 2026 from 1:00–2:00pm ADT (4:00–5:00pm UTC). The webinar will provide a high-level summary of the research approach, the campaign strategy and targeting it informed, the messaging decisions behind it, the performance results, and practical takeaways for designing evidence-based awareness campaigns.

The National Laboratory of the Rockies (NLR) is hosting the final webinar in its [Marine Energy Microgrid and Power Electronics Webinar Series](#), "[Microgrid Power Hardware-in-the-Loop Modeling](#)," on 10 August 2026 at 12:00pm MDT (6:00pm UTC). The webinar will demonstrate

NLR's power hardware-in-the-loop (HIL) microgrid model for marine energy integration with microgrid testing. This demonstration will feature a repurposed tidal energy generator mounted on NLR's 20-kW test bench connected to a bidirectional grid emulator and an HIL device.

The Portal and Repository for Information on Marine Renewable Energy ([PRIMRE](#)) is hosting a webinar, "[From Design to Ocean Deployment: Lessons Learned from the SURF-WEC Project in Hawaii](#)," on 11 August 2026 from 1:00–2:00pm MDT (7:00–8:00pm UTC). Join for an in-depth overview of the Small Underwater Research Flap Wave Energy Converter (SURF-WEC), a 1m x 1m oscillating surge device developed by NLR in partnership with the Hawai'i Marine Energy Center (HMEC), which has been successfully deployed off the coast of Oahu, Hawaii.

Upcoming Conferences

The [North American Wind Energy Academy \(NAWEA\) / WindTech 2026 Conference](#) will take place on 21–23 September 2026 at Portland State University in Portland, OR, USA. Regular pricing is available until 31 July 2026.

Ocean Energy Europe (OEE) and the Dutch Energy from Water Association (EWA) are co-hosting the [2026 International Conference on Ocean Energy \(ICOE\) and OEE Conference](#) on 5–7 October 2026 in The Hague, Netherlands. Early bird registration has been extended until 31 July 2026.

Renewables Grid Initiative, TB Raab, and 50Hertz are hosting the biennial conference, [Wingspan 2026 – From Partnerships to Practice: Accelerating Nature-Positive Energy Infrastructure](#), on 3–5 November 2026 in Berlin, Germany.

World Forum Offshore Wind (WFO) is hosting its [Offshore Wind Conference & Exhibition Global Summit 2027](#) on 2–3 February 2027 in Barcelona, Spain. Early bird registration has been extended until 31 August 2026.

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 and social impacts of tidal energy developments: A review](#) – Ayoub et al. 2026

Marine renewable energy is gaining increased interest as an area of new developments, but little is known about its potential environmental and social impacts caused to the marine environment and the surrounding communities. While previous research around the latter focused more on offshore wind and wave technologies, there remains a gap in understanding environmental and social impacts for tidal energy and the interlinkages

between them, knowing its diverse technological designs and device configuration. The associated implications on natural habitats are also uncertain. This paper fills this gap by conducting a systematic review of the environmental and social impacts of tidal energy development using Scopus and Web of Science databases, without putting any limitations on the technology used or the geographical area of study.

Bay of Fundy Mi'kmaq Ecological Knowledge Study Report – Confederacy of Mainland Mi'kmaq 2026

Mi'kmaq Ecological Knowledge (MEK) represents a comprehensive, place-based system of understanding developed over millennia through Indigenous relationships with lands, waters, and resources in Mi'kma'ki. Indigenous Knowledge is not simply a set of observations; it is a living, dynamic body of knowledge, practice, and belief embedded in culture, language, governance, spirituality, and community institutions. It is sustained through intergenerational transmission and adapts over time in response to environmental and social change, while remaining grounded in core values and teachings. This Mi'kmaq Ecological Knowledge Study (MEKS) is being completed in support of the proposed tidal energy development at the Fundy Ocean Research Centre for Energy (FORCE) test site, located in Minas Passage, Bay of Fundy, Nova Scotia.

Life Cycle Environmental Impacts and Socio-Economic Implications of Tidal Electricity Generation and Storage in the UK – Jeswani et al. 2026

Tidal range schemes (TRS) remain controversial as their sustainability issues are poorly understood. This study presents a first comprehensive life cycle assessment (LCA) of small, medium and large-scale TRS, considering their dual roles for electricity generation and storage. This is coupled with a discussion of their socio-economic implications and public acceptability. When used solely for electricity generation, tidal power has significantly lower environmental impacts than natural gas, wind and solar photovoltaics, but shows higher values against hydro and nuclear power. When used for both electricity generation and storage, TRS outperform wind electricity coupled with pumped hydro, batteries, compressed air or liquid air energy storage.

Wind Energy

Improving understanding of distributional change for relevant seabird species (ImpUDis) Final Report – Humphries & Bogaard 2026

Offshore wind farms are a vital part of the transition to clean energy, but they can affect seabirds by causing them to avoid or be attracted to the wind farm area — a process known as distributional change or displacement. When regulators cannot be certain how much displacement is occurring, they must assume the worst, which can stall or complicate the consenting of new developments. The ImpUDis project was established to address this problem directly. Working with industry, regulators, and conservation bodies, the project reviewed the available evidence, developed a standardised set of methods for measuring displacement, tested those methods on real monitoring data from

eight UK offshore wind farms, and engaged key stakeholders to validate the approach. A review of 76 studies across 35 European offshore wind farms (WP1) confirmed that seabird distributional change is real but highly variable.

Integrating 3-D thermal videography, ultrasonic acoustics, and weather radar to characterize bird and bat activity at wind turbines – Shultz et al. 2026

Wind turbines intersect airspace used by both migratory birds and bats, yet most monitoring approaches rely on single sensing modalities that capture only part of this system. Here, we integrate synchronized three-dimensional (3-D) thermal videography, ultrasonic acoustic monitoring, and regional weather radar data to characterize wildlife activity at two inland wind turbines during fall migration in Iowa, USA. Across 38 nights in late summer and autumn of 2022, we recorded 12,047 3-D flight tracks within rotor-swept altitudes, 2,249 bat echolocation sequences, and cumulative radar-derived migration traffic of approximately 2.0 million birds/km. Thermal video detections were strongly correlated with radar-derived migration intensity but not with acoustic detections. This pattern is consistent with birds comprising the majority of thermal video detections during peak migration.

Evidence Review Note: Offshore Air Quality – Offshore Wind Evidence Knowledge Hub 2026

This Evidence Review Note (ERN) provides an evidence-led assessment of the relevance and proportionality of offshore air quality within the Environmental Impact Assessment (EIA) of UK offshore wind farm (OWF) projects. Developed through the Offshore Wind Evidence and Knowledge Hub (OWEKH), the ERN draws on a structured review of 79 published UK offshore wind EIAs and associated scoping reports, alongside stakeholder input and relevant policy and guidance. The review examined the treatment of offshore air quality across OWF projects spanning more than two decades. No recent standalone chapters titled ‘Offshore Air Quality’ were identified. Where air quality chapters were included, these predominantly addressed onshore construction-related effects, with offshore emissions either scoped out at the scoping stage or addressed briefly within broader air quality chapters.

News & Press Releases

Marine Energy

Equinox Ocean Turbines launches open-water testing to unlock the 700 GW global ocean current market – Equinox Ocean Turbines

Equinox Ocean Turbines (EQOT) begins open-water testing of its Mobula®5 1:10 prototype in Friesland, the Netherlands, on 11-16 July. The milestone is designed to de-risk the technology and advance ocean current energy capture toward commercial deployment, while supporting EQOT’s current fundraising round. The technology testing

is expected to advance it to Technology Readiness Level (TRL) 6, demonstrating system performance in real-world ocean conditions and validating key assumptions required for commercial-scale deployment. The data collected will support the next major development milestone: a half-scale product demonstrator targeted for 2028. EQOT is initially targeting high-resource markets in Japan, South Africa, and the United States. The initial addressable market represents approximately 30 GW within a global ocean current resource potential of more than 700 GW.

Swedish hybrid ocean energy platform on sea trials in commercialization push – Offshore Energy

Swedish wave energy developer NoviOcean is carrying out sea trials of its hybrid offshore renewable energy platform, which combines wave, wind, and solar energy technologies, as part of the journey toward commercial deployment. The 10×6-meter N03 prototype has been operating in open water east of Stockholm for one month as part of a validation phase for the 850 kW Medi Wave 850H technology, in order to confirm key engineering assumptions under operational conditions and further reduce technical risk as the technology advances toward commercialization. The offshore campaign is designed to validate the platform's survivability, movement in real sea conditions and the interaction of its side floats with incoming waves, as well as verify that the system behaves as predicted by NoviOcean's numerical simulations.

HERO's Mission: Building a Blueprint for Wave Energy Components – NLR

Since 2024, researchers at NLR have been improving the overall design of NLR's hydraulic and electric reverse osmosis wave energy converter—or HERO WEC. Their work aims to fill vital data gaps that pave the way for more reliable and deployable wave energy technologies. The HERO WEC, which is funded by the U.S. DOE's Hydropower and Hydrokinetic Office (H2O), uses energy from waves to desalinate seawater. The prototype can operate using either a hydraulic or an electrical configuration to pump seawater through an onshore reverse osmosis system to produce fresh drinking water. NLR researchers began designing the HERO WEC in 2020, and after hundreds of hours of testing across three in-lab programs and five ocean installations, the team is retiring version one (V1) and drawing on lessons learned to design version two (V2).

The Wave Energy Revolution is Coming, But it Needs Autonomy – Association for Advancing Automation

Geoff Hollinger, who leads the Robotic Decision Making Laboratory at Oregon State University, says that by some estimates up to 60% of the West Coast's energy needs could be met with marine energy. But wave energy is not a solved problem. One obstacle is the cost of the deployment and maintenance large wave energy generation arrays will require. "Doing things in the ocean is incredibly expensive, and hopefully these start-ups are thinking about how expensive it's going to be," says Hollinger. Ships must move to the site, and the people who operate those ships need specialized knowledge. Hollinger's lab has spent four years on a DOE-funded project researching how autonomous

underwater vehicles (AUVs) can be adapted to solve this problem. A portion of the research has focused on something that seems deceptively simple: teaching AUVs to dock with their charger.

California's Final SB 605 Report Highlights Eco Wave Power's Port of Los Angeles Pilot as State Advances Marine Energy Commercialization – Eco Wave Power

Eco Wave Power Global highlighted its inclusion in California's Final Consultant Report on Sea Space Analysis for Wave and Tidal Energy and prepared for the California Energy Commission (CEC) as part of the State's Senate Bill 605 (SB 605) process. The report specifically references Eco Wave Power's Port of Los Angeles wave energy pilot project as part of California's assessment of existing marine renewable energy developments and future commercialization opportunities. The Final Consultant Report represented the culmination of SB 605 Phase 2, a comprehensive statewide assessment evaluating suitable deployment areas, electrical infrastructure, environmental considerations, monitoring strategies, and commercialization pathways for wave and tidal energy projects.

Wind Energy

Ecowende's wind farm produces its first green energy – Ecowende

Ecowende's wind farm Hollandse Kust West, one of the most ecological offshore wind farms in the world, is now connected to TenneT's offshore grid and has produced its first carbon-free energy. The wind park is being developed 53 km off the Dutch coast by Ecowende, a joint venture of Shell, Chubu and Eneco. It consists of 52 wind turbines, each with a power output of 15 MW, for a total installed capacity of 760 MW. Offshore construction began in December 2025 with the installation of the first monopile. Full commercial power delivery is expected to be completed by the end of 2026. Reaching first power is a significant milestone for Ecowende and for the Dutch energy transition. Once fully commissioned, the wind park will generate 3.3 TWh of renewable electricity per year; enough to meet approximately 3% of the Netherlands' total electricity demand.

Marine Licence granted for Pembrokeshire floating offshore wind demonstration project – Natural Resources Wales

Natural Resources Wales (NRW) has granted a Marine Licence to Llŷr Floating Wind Limited for the Llŷr Floating Offshore Wind Farm Project - a test and demonstration facility to be located 35km off the Pembrokeshire Coast. The proposed project, off the coast from Linney Head, is among the first demonstration-scale floating wind projects in Wales, aimed at developing and testing this emerging technology. It includes up to ten turbines with a height of up to 300m above sea level, and their associated floating platforms, mooring lines and anchors. Up to two offshore export cables, approximately 50km long, are planned to bring power ashore at Freshwater West.

Northland's Baltic Power Reaches First Power Delivering First Offshore Wind Electricity to Poland's Grid – Northland Power

Northland Power Inc. recently announced that Baltic Power – its 1.1-gigawatt offshore wind project, owned 49% by Northland and 51% by ORLEN – has achieved first power, delivering the first electricity ever generated from offshore wind to Poland's national grid. "Today, the first electricity from offshore wind flows to Polish homes and businesses — a historic moment for the country," said Christine Healy, President and CEO of Northland Power. Once operational, Baltic Power is expected to generate approximately 4 terawatt-hours of electricity annually – enough to power more than 1.5 million Polish households. Once operational, Baltic Power will add to Northland's gross installed offshore wind capacity, increasing it from approximately 1.2 GW to 2.3 GW and reinforcing the Company's position as one of the world's leading offshore wind operators.

DemoSATH Lab advances new Nature-Inclusive Solutions (NIDs) for floating offshore wind – Saitec Offshore Technologies

As floating offshore wind moves towards commercial-scale deployment, understanding how these technologies interact with the marine environment is becoming increasingly important. Through DemoSATH Lab, Saitec Offshore Technologies is using its operating floating wind demonstrator as a real-scale testing ground to study environmental interactions, improve monitoring methods, and explore solutions that support coexistence with marine biodiversity. This work builds upon previous initiatives at the site, including the installation of biomimetic reef solutions on the submerged section of the platform. The recent offshore operation marks a new step in DemoSATH Lab's biodiversity programme and forms part of the AQUASATH Project, with the installation of several complementary systems designed to study how floating wind foundations can host and support marine life while exploring their potential integration with aquaculture activities.

Experimental Floating Axis Wind Turbine Installed Offshore Japan – Offshore Wind

The Floating Axis Wind Turbine (FAWT) consortium of six Japanese companies has installed an experimental low-cost next-generation floating wind turbine in the bay of Iki City, Nagasaki Prefecture, Japan. The concept aims to make a fully domestic supply chain of offshore wind possible. The demonstration has started as of July 2026 and will be carried out for one year. The demonstrator consists of a vertical-axis wind turbine with three straight blades and a cylindrical floating foundation. The diameter of the rotor is 9.3 metres, and the diameter of the floating foundation is 1.7 metres. The maximum output power is under 20 kW. Station-keeping is achieved by three mooring lines, each connected to seabed anchors.