![PRIMRE BLAST logo]

# 20 February 2026

The Portal and Repository for Information on Marine Renewable Energy (PRIMRE) provides access to marine energy data, information, and resources in the U.S. and internationally. The bi-weekly PRIMRE Blast highlights relevant announcements and upcoming events; new content in the Knowledge Hubs; and international marine energy news. Email us to contribute!

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# Announcements

Contributing to PRIMRE

Did you know you can easily submit your own marine energy data, documents, events, project information, device photos, and more to PRIMRE? Visit the Contributing the PRIMRE page or watch the Contributing to PRIMRE video to learn more.
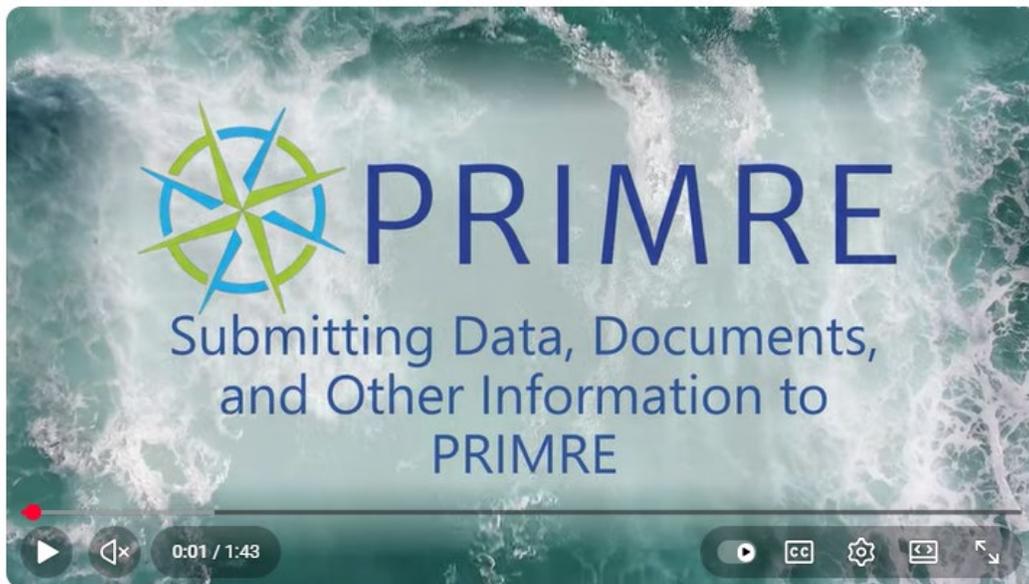
SCGSR Applications Open

The U.S. Department of Energy's (DOE) Office of Science Graduate Student Research (SCGSR) program is now accepting applications for the 2026 solicitation 1. SCGSR application assistance workshops will be held on 5 March 2026 from 2:00-3:30pm EDT (7:00-8:30pm UTC) and 9 April 2026 from 2:00-4:30pm EDT (7:00-9:30pm UTC). Apply by 6 May 2026.

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 accepting applications for its Fall 2026 Cohort (August – October 2026) through 27 March 2026.

Calls for Abstracts

The International Council for the Exploration of the Sea (ICES) has opened the Call for Abstracts for the ICES Annual Science Conference (ASC) through 25 February 2026. ASC 2026 will take place on 15-18 September 2026 in Brest, France.

The Call for Abstracts/Papers for the 7th International Conference on Renewable Energies Offshore (RENEW 2026) is open through 28 February 2026. RENEW will take place on 20-22 October 2026 in Lisbon, Portugal.

The Call for Abstracts for the 8th Asian Offshore Wind, Wave and Tidal Energy Conference (AWTEC 2026) is open until 6 March 2026. AWTEC will take place on 6-10 September 2026 in Kaohsiung, Taiwan.

The Call for Students Abstracts for the TIDES Conference 2026: Igniting Innovation in the Blue Economy of the Pacific Northwest is now open until 13 March 2026. The TIDES Conference will take place on 23 April 2026 at the University of Washington in Seattle, Washington, USA. Registration is free for students, graduates, and working professionals.

The Supergen Offshore Renewable Energy (ORE) Hub has opened the Call for Abstracts for its 2026 Annual Assembly until 20 March 2026. The Annual Assembly will take place on 22 April 2026 at the University of Warwick in Coventry, England. The 2026 Early Career Forum will take place on 21 April 2026.

The Pacific Ocean Energy Trust is accepting Workshop and Session Topic submissions for the 2026 Ocean Renewable Energy Conference (OREC) until 20 March 2026. OREC, in partnership with the 2026 Marine Energy Collegiate Competition (MECC), will take place on 18-21 May 2026 in Portland, Oregon, USA. Early bird registration is available until 31 March 2026.

The Call for Abstracts for the International Conference on Ocean Energy (ICOE) / Ocean Energy Europe (OEE) 2026 is now open until 31 March 2026. ICOE/OEE will take place on 5-7 October 2026 in The Hague, The Netherlands.

The Society for Underwater Technology's (SUT) Offshore Site Investigation and Geotechnics (OSIG) Committee has opened the Call for Abstracts for the 10th International SUT OSIG Conference on Geophysics, Geoscience & Geotechnics for Energy and Resource Resilience until 30 April 2026. The conference will take place on 14-16 September 2027 in London, England.

Funding & Testing Opportunities

The U.S. Army Engineer Research and Development Center (ERDC) has issued a Broad Agency Announcement for various research and development topic areas, including coastal engineering, instrumentation, energy, materials and structures, and engineering processes. Submissions open until superseded by another announcement. Pre-Proposals may be accepted at any time.

BlueActionBANOS (Baltic and North Sea) has launched a Community-Led Actions Open Call, which is designed for multi-partner projects that will scale up and deploy established solutions, and its 1st Transition Agendas Open Call, which is for foundational planning and strategic development at the local level. Submit your project idea form by 16 March 2026.

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) 18 applications until 6 June 2026. TEAMER now provides expertise, non-open water, and open water support, as well as commercialization support.

Career & Internship Opportunities

Orbital Marine Power is hiring for several positions, including Control Systems Engineer, R&D Project Manager, Project Manager – Canada Projects, Metocean & Hydrodynamic Modelling Engineer, Project Engineer, and Senior Electrical Engineer.

The Pacific Regional Institute for Marine Energy Discovery (PRIMED) is recruiting a Senior Engineering Manager (Mechanical) to oversee mechanical engineering design and analysis activities whilst playing a leadership role, mentoring, and developing a small team of mechanical engineers. Apply by 1 March 2026.

ABPmer is hiring a Senior Marine & Coastal Process Specialist and an Oceanographer & Numerical Modeller to support the quantification and assessment of morphological and hydrodynamic changes, sediment transport, and wave analysis. Apply by 2 March 2026.

European Marine Energy Centre (EMEC) is looking for an Administration Officer to support business functions across EMEC by providing key administrative services, including reception cover, administrative support and accurate record keeping. Apply by 2 March 2026.

EMEC is also seeking a Technical Project Manager or Assistant Technical Project Manager with an engineering or technical background, who can support EMEC in pioneering the energy transition. Apply by 4 March 2026.

The University of Victoria is recruiting a [Canada Impact+ Research Chair in Integrated Marine Energy Systems](). This is a world-class position designed for an internationally recognized leader in marine and maritime energy systems, ocean technologies, or related fields, currently working at an institution outside of Canada. Apply by 13 March 2026.

Frugal & Accurate Innovation for Responsible CFD (FairCFD) is offering a [PhD position on DC2: Efficient Simulation an Optimization of Buoy Arrays for Wave Energy Harvesting]() to be hosted at the Institut de Mécanique des Fluides de Toulouse (IMFT). Apply by 31 March 2026.

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# Upcoming Events

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

Upcoming Webinars

The Supergen Offshore Renewable Energy (ORE) Hub is hosting an upcoming webinar, "[Future Horizons for Marine Energy: Leveraging Research to Scale and Sustain]()", on 24 February 2026 from 1:00-2:00pm UTC. This webinar will showcase EMEC's journey, from past demonstrations to future ambitions in marine renewables and sustainable offtake.

MSE International, in partnership with the European Space Agency, is hosting a webinar, "[Advancing the Blue Economy with Earth Observation]()", on 26 February 2026 from 3:00-5:00pm UTC. The webinar will focus on harnessing Earth Observation and in-situ data to support the operational requirements of the Blue Economy.

The University of Victoria is hosting a webinar, "[ClimateTALK: Renewable energy from the ocean: Motivations, advancements, and perspectives]()", on 27 February 2026 from 12:00-2:00pm PST (8:00-10:00pm UTC). Dr. Bryson Robertson will provide an overview of ocean renewable energy in the US, detail efforts by academia to support the responsible advancement of the sector, and highlight research projects from technical, environmental, and social perspectives.

Pacific Marine Energy Center (PMEC) is hosting the next seminar in its series, "[PMEC Seminar: Ben Loeffler on the Bladerunner Iterative Deployments]()", on 4 March 2026 at 2:30pm PST (10:30pm UTC). During the seminar, Dr. Ben Loeffler will present the results from the Bladerunner iterative deployments at the Tanana River Test Site in Alaska.

Marine Renewables Canada is hosting a webinar, "[A Marine Renewables Canada Vision to 2050 – Powering Our Clean Energy Future]()", on 4 March 2026 from 1:30-2:30pm AST (5:30-6:30pm UTC). In this session, Marine Renewables Canada team members will highlight the Vision's key goals for 2030, 2040, and 2050, along with recommendations to translate the Vision into action.

Marine Alliance for Science and Technology for Scotland (MASTS) is hosting a MASTS Energy Transition open forum session, "[Intelligent Workforce Strategies and Coastal Community Insights for a Just Marine Energy Transition]()", on 12 March 2026 from 2:00-3:00pm UTC. The

session will feature presentations on AI-Driven Workforce Planning for Offshore Energy Transitions and Just Marine Energy Transitions in Coastal Communities.

Upcoming Masterclasses & Short Courses

Scottish Association for Marine Science (SAMS) is offering two upcoming robotics courses at its location in Oban, Scotland. Environmental Monitoring using Autonomous Platforms will take place on 16-18 March 2026 and Applied Photogrammetry for Environmental Monitoring will take place on 19-20 March 2026.

The Supergen ORE Hub has launched a series of Offshore Renewable Energy Masterclasses designed by world-leading researchers and held at its core partner universities. The Masterclass on Virtual Prototyping of Offshore Renewable Energy Technologies will take place on 29-30 April 2026 at the National Decommissioning Centre in Newburgh, Scotland. The Masterclass on Environmental Contours and Extreme Value Analysis will take place on 14-15 May 2026 at the University of Exeter in Exeter, England.

Atlantic Marine Energy Center (AMEC) is offering graduate-level courses that require knowledge in marine energy, engineering, and other technical skills. Tidal & Water Current Energy Conversion will take place on 10-14 August 2026 at the University of New Hampshire, Durham, New Hampshire, USA. Apply by 31 March 2026.

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# New Documents on Tethys Engineering

*Tethys Engineering hosts thousands of documents on the technical aspects of marine energy research and development, including journal articles, conference papers, and reports.*

**Report on Coastal Structure Integrated Wave Energy Converters (CSI-WECs) – McGilton et al. 2026**

> The purpose of this report is to explore the full value proposition of coastal structure integrated wave energy converters (CSI-WECs) in the United States. The report provides background information on the state of the art of the technology as well as a summary of important technology developments and a review of devices currently in operation. We present an end-use, application-focused case study in which four U.S. sites are selected for their high-value CSI-WEC deployment potential: Puerto Rico, Hawaii, the Pribilof Islands of Alaska, and Humboldt Bay, California. For each of these sites, three developers—Eco Wave Power, Wave Swell Energy, and the combined efforts of Professor Diego Vicinanza and Professor Pasquale Contestabile—conducted an energy production analysis of their technologies for the four selected sites.

**Current depth profile characterization for tidal energy development – Jang et al. 2026**

> The present study characterizes published acoustic Doppler current profiler measurements from twenty potential tidal energy sites, classifying the profiles based on

their velocity shape, while analyzing their prevalence and mean characteristics by flow regime. Most of the observed profiles (87%) are monotonic. A 1/6.5th power law models 89% of the mean profiles within ±10%. A small fraction of the profiles (13%) exhibits non-monotonic behavior during different phases of the tidal cycle or in the presence of complex bathymetric features and other hydrodynamic forcing. Non-monotonic behavior is found to be correlated with the flow depth Reynolds number, indicating the influence of depth and local turbulence intensity in shaping the vertical flow structure.

[Asymmetric Two-Dimensional Nanomembranes for Salinity Gradient Energy Conversion](#) – Kim et al. 2026

Salinity gradient energy offers a ubiquitous, renewable power source but remains inhibited by the trade-off between the ion selectivity and permeability of the membrane, which limits the diffusion potential and ionic current, thus restricting the output power. We designed a membrane with millimeter-scale lateral channels with angstrom height and unipolar asymmetry to overcome these constraints. By applying a localized spark reaction to vermiculite films, we engineered a robust monolithic asymmetric architecture with an enhanced ion selectivity (95.1% $Na^+$) and rectification ratio ($R \approx 10$). In modules of 900 cells (30 devices), these membranes sustained power densities of >5.0 $W/m^2$, sufficient to charge smartphones and tablets with minimal performance losses.

## Marine Energy Atlas Updates

*The [Marine Energy Atlas](#) is an interactive mapping tool that maps high-resolution, spatially comprehensive data on global wave, tidal, riverine, ocean current, and ocean thermal resources.*

[West Coast Wave Hindcast Data Through 2020 Live on the Marine Energy Atlas](#)

The [Marine Energy Atlas](#) now features 42 years of modeled wave data along the West Coast – including at PacWave! Users can now visualize data through 2020, download small datasets straight from the Atlas, or head over to [AWS](#) for the full .h5 yearly datasets. This wave hindcast dataset, brought to you by the National Lab of the Rockies, Pacific Northwest National Laboratory, and Sandia National Laboratories, contains the highest-resolution time-series data on wave attributes in U.S. waters. Using the [UnSWAN](#) and [WaveWatch III](#) models, wave resource and long-term wave bulk parameters were simulated and subsequently validated with buoy data, to create an unstructured grid with a spatial resolution as fine as 100 to 200 meters in shallow water and a 3-hour time step. For questions, comments, or suggestions for improvement, please reach out to [marineresource@nlr.gov](mailto:marineresource@nlr.gov).

## Marine Energy Projects Database Highlights

*The [Marine Energy Projects Database](#) provides up-to-date information on marine energy projects, test sites, devices, organizations, and technologies around the world.*

### [BladeRunner Turbine](#) – BladeRunner Energy

The BladeRunner turbine is a hydrokinetic axial turbine system composed a float and a turbine connected by a flexible but torsionally stiff cable. The float maintains the systems position while housing both the electronics and the power take off system above water. The turbine itself is designed to withstand debris impacts without performance reductions which is in part aided by the flexible cable connecting the two systems. BladeRunner energy has partnered with the University of Alaska Fairbank's Alaska Center for Energy and Power (ACEP) to perform testing at the Tanana River Test site since 2021. Most recently, BladeRunner tested their turbine for 264 continuous hours of operation at the site in August 2025.

### [Jimei University JiDa FABWEC](#) – Jimei University

The FABWEC system consists of an A-shaped floating platform (with a 30 degree wedge angle), ten oscillating buoys, two sets of mechanical transmission and power generation mechanisms, an electromechanical control system and a single-point mooring system. The oscillating buoys are located on both sides of the floating platform and generate power as the buoys move relative to the platform. When the wave is transmitted to both sides of the platform, the oscillation amplitude of the central platform is much smaller than that of the oscillating buoys, leading to relative motions between them. And then the relative motions are dampened by pinion power take-off (PTO) systems to convert wave energy to mechanical energy.

### [AquaGen BioRock Deployment for Gili Trawangan](#) – Aquagen Blue

BioRock is a technology targeting the accelerated growth of coral reefs using low voltage electrolysis to grow limestone casings on steel structures which are ideal for coral reef growth. The project located off the island of Gili Trawangan in Indonesia was initiated by the Gili Eco Trust in 2004. In 2020 the project partnered with AquaGen to capitalize on their portable turbine technology the Minnow for remote off grid deployments at sea. Most recently in November 2023, the Gili Eco Trust completed the installation of a sculptural "Blue Energy Reef" at Halik Reef, aesthetic octopus-, seahorse-, and mermaid-shaped BioRock units, powered entirely by the Minnow turbine, with plans already underway to expand further as funding and recognition grow.

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## News & Press Releases

### [Multimillion pound investment to expand tidal energy R&D infrastructure](#) – EMEC

Unveiled by Science Minister Lord Vallance, a combined pot of £150 million will support three key projects spanning healthcare, clean energy and the development of state-of-the-art materials. £15 million has been awarded to EMEC in Orkney to help it take advantage of one of the UK's greatest natural assets – the seas around our coasts. The Blue Horizon project will expand EMEC's world-leading tidal test facilities to

enable tidal energy arrays to be demonstrated. The investment brings tidal energy closer to becoming a mainstream part of Britain's energy mix, creating skilled jobs in coastal communities and supporting the government's mission to make the UK a clean energy superpower.

[French Government to industrialise tidal energy with 250 MW tender](#) – **Ocean Energy Europe**

The French Government recently published its long-awaited "Programmation Pluriannuelle de l'Energie" – the French energy strategy. It includes commercial tenders for 250 MW of tidal energy capacity to be awarded by 2030, the last missing piece to trigger the industrialisation of the sector. Earlier this week, the UK also awarded a 4th round of support to tidal projects for a total of 140 MW. This means Europe is now the first continent to industrialise tidal energy, a game-changer for the sector and the future of Europe's energy supply. The French Government is finally giving the French tidal sector – and European supply chain – the visibility it needs to attract private investment and trigger industrialisation.

[Eco Wave Power Completes Feasibility Study for Wave Energy Project at Port of Ngqura, South Africa, with Encouraging Results](#) – **Eco Wave Power**

Eco Wave Power recently announced the successful completion of a feasibility study for a potential wave energy power station at the Port of Ngqura, South Africa. The feasibility study, conducted in collaboration with Africa Great Future Development Ltd, delivered encouraging results, indicating the technical potential to deploy approximately 8.3 MW of installed wave energy capacity along the port's breakwater infrastructure, subject to further development and permitting assessments. The study assessed site conditions, wave resource availability, and preliminary system configuration. The findings support the port's suitability for onshore wave energy implementation and highlight the opportunity to integrate wave energy generation using existing coastal structures

[New Microgrid Testbed for Maritime and Coastal Energy Technologies](#) – **Pacific Northwest National Laboratory**

A new microgrid testbed for energy technology development and testing is now online at the Pacific Northwest National Laboratory (PNNL) Sequim campus (PNNL-Sequim). The testbed infrastructure streamlines the lengthy process for in-water testing of new marine energy and ocean technologies—potentially saving developers months and thousands of dollars per project—and by enabling research on the use of microgrids to support maritime businesses and coastal energy resilience. "This is the first testbed in the United States to enable simultaneous testing of connected energy generation, electricity storage, and sensors and control software to track load, while including precommercial market marine energy generation technologies," said Rob Cavagnaro, PNNL mechanical engineer and marine energy research lead.

[ORPC Canada to Launch Its First Urban Project with Proven Water Power System in the St. Lawrence River, Quebec](#) – **ORPC**

ORPC Canada will deploy its proven RivGen® hydrokinetic power system in the St. Lawrence River, Montreal, in the first urban-scale installation of the product. Designed to deliver stable, predictable, and affordable local power, the project will activate the energy potential of a major urban river. Implemented in a dense urban environment, the project will confirm the ability of the RivGen Power System to safely coexist with aquatic ecosystems and existing river users. The project will generate real-world performance data that helps reduce risk for future deployments and supports broad adoption of hydrokinetic energy across Canada, in both remote and urban settings.

[How To Crack the Wave Energy Code: MODAQ 2 Offers Marine Energy Developers the Data They Need—Reliably Collected in a Scalable Platform That Is Ready for the Ocean](#) – **NLR**

Marine energy developers are still refining early-stage technology designs. To edge them closer to commercial success, they need data to help answer critical questions—such as how a prototype performs in the ocean, how much energy it captures, and how it responds to changing conditions. With this information, teams can identify weaknesses early, improve efficiency, and design more robust systems. By enabling this kind of testing and de-risking, developers can reduce the likelihood of costly failures, avoid over- or under-engineering, and make more informed design decisions before scaling up. That is why National Laboratory of the Rockies (NLR) researchers developed the Modular Open-Source Data Acquisition (MODAQ) system—a data acquisition platform that provides developers and researchers the field feedback they need to validate marine energy technologies.