# PRIMRE BLAST

# 6 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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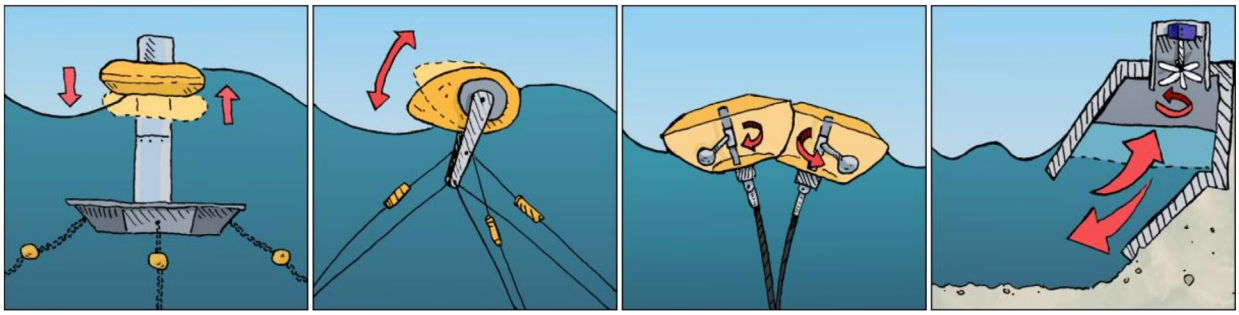
## Announcements

Marine Energy Illustrations Library

The Marine Energy Illustration Library on Tethys Engineering hosts illustrations that have been made for the marine energy community to use in presentations, documents, and websites. Please cite the illustrator in a caption and reference the Marine Energy Illustration Library.



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 Call for Speakers for Clean Currents 2026 is now open until 15 February 2026. Clean Currents will take place 22-24 September 2026 in Phoenix, Arizona, USA.

The Call for Abstracts for the 10th Offshore Energy and Storage Symposium (OSES) has been extended to 20 February 2026. OSES will take place on 8-10 July 2026 in Delft, Netherlands.

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 also take place on 21 April 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 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 by 31 March 2026.

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.

Calls for Papers

Springer Nature is accepting original research submissions for a *Scientific Reports* Collection on Ocean Energy through 20 February 2026.

Frontiers is accepting manuscript summary submissions for a *Frontiers in Mechanical Engineering* Research Topic on Next-Generation Wave Energy Converters: From Hydrodynamics to Power Electronics through 7 March 2026.

## 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.

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. TEAMER recently added Commercialization Support to all future RFTS rounds as well.

VentureWell is accepting applications for its Spring 2026 Ocean Enterprise Accelerator Stage 1 Program, which seeks innovators and ventures developing key marine and coastal sector industries, including ocean data technologies and services. Apply by 12 February 2026

Horizon Europe has several open Calls for Proposals, including De-risking wave energy technology development through transnational pre-commercial procurement of wave energy research and development. Proposals are due by 17 February 2026.

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.

## Career & Internship Opportunities

Seaturns is recruiting a Marine Renewable Energy Project Manager to lead offshore wave energy projects, from feasibility studies to pre-industrial deployment, a Hydrodynamic Studies Engineer to develop the numerical models of its technology, and a Turbomachines & CFD Engineer to take charge of the design, optimization and progressive industrialization of an axial air turbine.

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). Applications open soon.

The University of Manchester is offering a funded PhD position for UK students focused on modelling wave transformation over tidal turbine wakes: developing tools for array design, loading, and survivability. Apply by 27 February 2026.

The University of Manchester is also offering a funded PhD position for UK students which aims to provide a comprehensive characterization of offshore turbulent conditions that define the performance and siting of offshore renewable energy devices. Apply by 28 February 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.

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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 National Laboratory of the Rockies (NLR) is hosting the first webinar in its Marine Energy Microgrid and Power Electronics Webinar Series, "Introduction to Microgrid Research and Marine Energy Technology Integration", on 9 February 2026 at 12:00pm MST (7:00pm UTC).

TEAMER is hosting a webinar, "Quality Management Systems and TEAMER", on 11 February 2026 from 11:00am-12:30pm PST (7:00-8:30pm UTC). This webinar will provide a review of international Quality Management Standards and their use in Quality Management Systems, including the ISO 9000 and ISO/IEC 17000 series of standards.

Pacific Marine Energy Center (PMEC) is hosting the next two seminars in its series, "PMEC Seminar: Lily Wain on European Marine Energy Center Deployments", on 12 February 2026 at 9:00am PST (5:00pm UTC), and "PMEC Seminar: Ben Loeffler on the Bladerunner Iterative Deployments" on 4 March 2026 at 2:30pm PST (10:30pm UTC).

Ocean Energy Europe and ETIP Ocean are hosting a webinar, "European Commission presents the 'Flagship' Call for ocean energy", on 13 February 2026 from 9:30-10:30am UTC. During the webinar, Matthijs Soede will present the European Commission's expectations for the €43 million 'Flagship' call for ocean energy in Horizon Europe 26-27 and participate in a Q&A.

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.

Upcoming Masterclasses & Short Courses

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 two graduate-level courses that require knowledge in marine energy, engineering, and other technical skills. Marine Energy Structures, Materials, and Foundation Systems will be held on 22-26 June 2026 at Stony Brook University in Long Island, New York, USA. Apply by 14 February 2026. Tidal & Water Current Energy Conversion will close out the series on 10-14 August 2026 at the University of New Hampshire, Durham, New Hampshire, USA. Apply by 31 March 2026.

Upcoming Conferences

The National Hydropower Association is hosting Water Power Week 2026 in on 9-13 March 2026 in Washington DC, USA.

The Advanced Research Projects Agency–Energy (ARPA-E) is hosting the 2026 ARPA-E Energy Innovation Summit on 7-9 April 2026 in San Diego, CA, USA.

The 4th Pan-American Marine Energy Conference (PAMEC 2026) will take place on 10-15 April 2026 in Rio de Janeiro, Brazil.

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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.*

**Tidal energy resource characterization measurements at cook inlet's east foreland: Velocity and turbulence – McVey et al. 2026**

> To characterize tidal current and turbulence at a top tidal energy site off the East Foreland in Cook Inlet, Alaska, United States, three moorings were deployed for two months between July and August 2021, and a transect survey was conducted over the course of two tidal cycles at the end of the deployment period. Measurements of velocity and turbulence were then analyzed to better understand the site's hydrodynamics and power potential. Analysis reveals that swift, north-flowing flood currents peak at 4 m/s, while south-flowing ebb currents reach just over 3 m/s. Turbulence intensity ranges from 23% at the seafloor to 8% near the surface, and the presence of the foreland creates more intense turbulence near-shore during ebb tide than flood.

**Model validation and improved PTO modeling of a field-deployed wave energy converter with tethered heave plate – Okushemiya et al. 2026**

Rigorous incremental testing and validation are essential to advancing wave energy converter (WEC) technology. Although laboratory wave tank testing remains common, it poses challenges in scaling hydrodynamic responses and power take-off (PTO) dynamics. These issues are more pronounced for WECs with tethered heave plates due to complex interactions between the structure, tether, heave plate, and PTO; all of which often exceed tank depth and scaling limits. Field testing enables full-system evaluation but introduces practical limitations, including environmental variability, limited sensing, and measurement uncertainty. A knowledge gap remains in how to overcome these limitations to extract meaningful insights and validate WEC numerical models using field test data.

**Design, construction and sea trials of the 20 kW ocean thermal energy conversion in the South China Sea – Ou et al. 2026**

The 20 kW ocean thermal energy conversion (OTEC) has successfully conducted sea trials in the South China Sea, verifying the technical feasibility of this independently developed system. By constructing a theoretical system of OTEC and comprehensive utilization suitable for the conditions of the South China Sea, the advantageous sea areas for the development of advantageous thermal energy resources are determined. By developing long-distance insulated cold seawater pipes and supporting devices for sea trials, the safe deployment of cold seawater pipes was successfully achieved, and the temperature of the extracted cold water met the operational requirements of the OTEC.

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## Marine Energy Software Updates

*Marine Energy Software is a collection of commercial and open-source software relevant to marine energy development, including software for simulating devices, and processing and analyzing data.*

### OpenFAST v4.2.0 Release

OpenFAST is an open-source software package developed by the National Laboratory of the Rockies (NLR). It is a multi-physics, multi-fidelity tool for simulating the coupled dynamic response of wind and marine energy turbines. MoorDyn is a popular module from OpenFAST used across the marine energy industry to numerically model mooring line dynamics using lumped mass discretization. OpenFAST v4.2.0 features improvements to the *AeroAcoustics* module in *AeroDyn*, an improved cubic interpolation in *HydroDyn* and *SeaState*, an improved teeter inertia model in *ElastoDyn* for 2 bladed turbines, and many other small improvements and bug fixes.

### MoorDyn v2.5.0 Release

MoorDyn is an open-source software package developed by NLR. It is used across the marine energy industry to numerically model mooring line and umbilical cable dynamics using a lumped mass discretization. MoorDyn is an adaptable software written in Fortran

and C++, giving it the capability to couple with OpenFAST and WEC-Sim. MoorDyn v2.5.0 introduces fixes for compatibility with automated WEC-Sim software development processes. It also includes improved documentation, and the addition of an examples folder for users getting started with MoorDyn. This is the same material that was covered in the WPTO Software Demo Days series. Other minor changes are improved error handling, rod submergence calculations (to match MD-F), and output file formatting.

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## Telesto Highlights

*Telesto provides information and resources about the development life cycle of marine energy, as well as information on lessons learned, metrics, economics, standards, and compliance.*

### Performance Metrics for Marine Energy

A team from multiple national labs identified a set of 37 performance metrics that are suitable for critical analysis of the marine energy industry and its projects. Using performance metrics for marine energy can enhance critical analyses and help advance marine energy technologies towards commercialization. Key analyses might include evaluation of economics, technical potential of the sector, evolution and growth of the sector, and guidance for research and development programs. Performance metrics for marine energy need to be carefully assessed to ensure that they are applied objectively; incorrect application can result in misleading or erroneous results. This collection of metrics on Telesto encompasses those that are commonly used for evaluating marine energy systems and can serve as a reference for device developers, researchers, regulators, and other stakeholders. The Performance Metrics are organized into a faceted database that allows the user to filter the metrics by technology, technology application, technology readiness level, and codes and standards.

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## News & Press Releases

### Offshore operations at MeyGen's tidal array – EMEC

Last month, EMEC were invited to join the MeyGen and Proteus Marine Renewables teams to observe a series of offshore operations in the Pentland Firth. The campaign involved cable works, turbine recovery and re-installation, maintenance and upgrades, providing a valuable opportunity to see a tidal energy array in action and experience firsthand how offshore activities are delivered at sites beyond EMEC. MeyGen has been operating a 6 MW tidal energy array in the Pentland Firth since 2018, with earlier iterations of the tidal turbines tested at EMEC's Fall of Warness demonstration site in Orkney.

### Wavepiston signs a Memorandum of Understanding with Export Barbados (BIDC) – Wavepiston

Wavepiston has strengthened its partnership with the government of Barbados. Wavepiston recently signed a Memorandum of Understanding (MoU) with Export Barbados (BIDC) Barbados Investment Development Corporation. This marks an important step forward in our journey towards commercial deployment in the Caribbean and positioning Barbados as the regional light-house of wave energy. This MoU builds directly on solid relations that have been formed under the completed pre-feasibility study for Wave Energy in Barbados (Project WEB) and signals a clear move towards a commercial pilot wave energy project.

**Minesto accelerates market development in Taiwan through Swedish Energy Agency's Global Innovation Accelerator Programme – Minesto**

Minesto, leading ocean energy developer, has been awarded 24,000 EUR grant funding from the Swedish Energy Agency (SEA) through the Global Innovation Accelerator (GIA) programme, aiming to accelerate the company's market development in Taiwan. As part of the programme, Minesto officially took part in the high-level Nordic-Taiwan Sustainable Energy Forum, held in Taipei in December. With the 24,000 EUR grant funded by SEA through the GIA programme, Minesto targets to secure investments and partnerships for build out of tidal energy power plants at identified sites near Keelung and at Green Island.

**Scottish wave energy firm to launch demo projects in Taiwan and Guam – Offshore Energy**

Scotland-based marine energy company ZOEX Power has secured the first-ever sale of its wave energy prototype device, after completing real-world sea trials on the Turkish Black Sea coast. The purchase order was secured from a fully owned subsidiary of Türkiye's Ordu municipality, named Oren Ordu Enerji A.S., following long-term sea trials at Belde Park. The municipality had invested a six-figure sum to build a new test platform and control room for hosting the ZOEX, and will now convert the Belde Park test site into a microgrid. According to ZOEX, the prototype set a sector benchmark by generating meaningful energy from sea-states as low as 50 cm thanks to its patented hinge mechanism.

**Underwater Cameras Could Help Unlock America's Tidal Energy Industry – Inside Climate News**

At the narrow entrance to Sequim Bay's tidal channel, an underwater, four-bladed turbine spinning above the seabed might look like a hazard. But here, in Washington state, underwater acoustic cameras bring to life a different story: Schools of Pacific herring swim through the rotors; harbor seals stop and curiously approach; diving cormorants instinctively steer clear. An analysis of 1,044 unique interactions between marine life and this small-scale tidal turbine found zero collisions for seals or seabirds, and a 98 percent safety rate for fish, according to a study by the Pacific Northwest National Laboratory, whose facility overlooks the high-flow test site.