PRIMRE BLAST

6 March 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!

Announcements

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.

SCGSR Applications Open

The U.S. Department of Energy's (DOE) Office of Science Graduate Student Research (SCGSR) program, which supports PhD students while working at DOE National Laboratories, is accepting applications for its 2026 solicitation. An SCGSR application assistance workshop will be held on 9 April 2026 from 2:00-4:30pm EDT (7:00-9:30pm UTC). Apply by 6 May 2026.

Calls for Abstracts

The Call for Students Abstracts for the Technologies for Innovation, Design, & Environmental Stewardship (TIDES) Conference 2026 is open until 13 March 2026. The TIDES Conference will take place on 23 April 2026 at the University of Washington in Seattle, Washington, USA.

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 8th Asian Offshore Wind, Wave and Tidal Energy Conference (AWTEC 2026) has been extended until 27 March 2026. AWTEC will take place on 6-10 September 2026 in Kaohsiung, Taiwan.

The Partnership for Research in Marine Renewable Energy (PRIMaRE) has opened the Call for Abstracts for the 13th PRIMaRE Conference through 30 March 2026. PRIMaRE 2026 will take place on 23-24 June 2026 at the Loughborough University in Loughborough, England.

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

The American Society of Mechanical Engineers (ASME) is inviting submissions to a special session, “Design and Dynamics for the Blue Economy”, at the International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC-CIE 2026). The session highlights advances in design automation, dynamics, and systems approaches supporting sustainable ocean industries, including marine energy and coastal resilience. Submit papers by 31 March 2026 and presentation-only abstracts by 20 April 2026. For questions, email Prof. Maha Haji. IDETC-CIE will take place on 23-26 August 2026 in Houston, Texas, USA.

The INSITE Programme has opened the Call for Abstracts for the 2026 Structures in the Marine Environment (SIME) Conference through 2 April 2026. SIME will take place on 9-10 June 2026 in Newcastle, England.

The Call for Abstracts for OCEANS 2026 Monterey is now open through 20 April 2026. The conference will take place on 21-24 September 2026 in Monterey, California, USA.

The Call for Abstracts for the 2026 University Marine Energy Research Community (UMERC) Annual Conference and Marine Energy Technology Symposium (METS) is now open through 30 April 2026. UMERC/METS 2026 will take place on 4-6 August 2026, at Stevens Institute of Technology in Hoboken, New Jersey, USA.

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.

The Call for Abstracts for the 3rd Australian Ocean Renewable Energy Symposium (AORES) is open through 31 May 2026. AORES will take place 9-11 November 2026 in Adelaide, Australia.

Funding & Testing Opportunities

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 5 June 2026. TEAMER now provides expertise, non-open water, and open water support, as well as commercialization support.

Career & Internship Opportunities

Fundy Ocean Research Centre for Energy (FORCE) is seeking a Director, Strategic Operations to lead key projects that support the growth of Nova Scotia's tidal energy sector to help advance its mission at a pivotal moment for Canada's renewable energy landscape.

CorPower Ocean is hiring for several positions, including a Head of Assembly & Testing, Senior Composite Design Engineer, and Senior Mechanical Design Engineer – Wave Energy.

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.

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

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.

The International Renewable Energy Agency (IRENA) and the Indian Ocean Rim Association (IORA) are hosting a two-part webinar series, *Toward Ocean Energy Readiness in Indian Ocean Rim Association Member States*. The first webinar, "Offshore Renewable Energy Technologies", will take place on 26 March 2026 from 10:00am-12:00pm GST and the second webinar, "Ocean Energy Technologies", will take place on 30 April 2026 from 10:00am-12:00pm GST.

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 Offshore Geotechnics will take place on 18-19 May 2026 at the University of Southampton in Southampton, 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.

As part of the Offshore for Sure (O4S) project, the Deftiq learning platform is offering their catalogue of Offshore Renewable Energy (ORE) online courses free of charge until the end of 2026. The curriculum covers the full ORE landscape—from technology development and testing to environmental impact, certification, finance, cyber security, digital twins, and more.

Upcoming Workshop

TEAMER is hosting a Deck Ops Workshop on 7-9 July 2026 at the Coastal Studies Institute in Wanchese, North Carolina, USA. This extended, in-person workshop will allow for deep participant engagement, integration of hands-on deployment scenarios, and increased access to experienced marine energy professionals, with emphasis on design-for-deployment, resiliency, and cross-discipline collaboration. Apply by 3 April 2026.

Upcoming Conferences & Summits

The North Carolina Renewable Ocean Energy Program (NCROEP) is hosting the 15th Annual North Carolina Renewable Ocean Energy Symposium on 23-24 March 2026 at the Coastal Studies Institute in Wanchese, North Carolina, USA. Register by 12 March 2026.

Marine Energy Wales is hosting the Marine Energy Wales 2026 Conference on 28-29 April 2026 in Llandudno, Wales.

Marine Renewables Canada is hosting a Marine Renewables Spring Summit on 12 May 2026 in Halifax, Nova Scotia.

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.

Efficient Reconstruction of High-Resolution Tidal Turbine Blade Deflection and Strain Maps Through Sensing Location Optimisation – Munko et al. 2026

> During fatigue tests of tidal turbine blades, digital image correlation (DIC) is used to collect vital information about the specimen. DIC provides high-resolution displacement and strain maps of selected blade sections; however, continuous operation is hindered by the need to acquire, transfer, and process large volumes of high-resolution images, precluding real-time use during long tests. We address this problem by optimising sparse sensing locations on the blade surface so that full-field maps can be accurately reconstructed from a small subset of pixel measurements. In contrast to most DIC improvements found in the literature, which focus on accelerating the processing stage, this approach circumvents the need to collect high-resolution data. We evaluate this approach in a case study at FastBlade, a dedicated testing facility for tidal turbine blades.

Modeling and validation of a small heave plate wave energy converter – Walker et al. 2026

> Wave energy converters (WECs) are increasingly being adapted for smaller-scale applications, such as powering unmanned oceangoing vehicles. For free-floating ocean platforms, there is a need for a simplified modeling framework that can be efficiently applied and used as a foundation for future optimization and design insight. We present the development and validation of a lumped-parameter model representative of a small heave plate WEC designed for short-period waves (1-5 s) typical of moderate wind conditions. The modeled system consists of a negatively buoyant drag plate and a surface buoy connected by a spring-damper power take-off (PTO) that captures the relative motion between the two bodies.

Optimizing energy futures in the Maldives: A study of Ocean Thermal Energy Conversion technology energy Mixes – Saadha et al. 2026

> Ocean Thermal Energy Conversion (OTEC) offers a stable baseload renewable energy source for Small Island Developing States (SIDS), reducing reliance on fossil fuels by harnessing the ocean's temperature gradient. Despite its potential, OTEC remains underdeveloped due to high capital costs and limited integration into SIDS-specific energy models. This study evaluates OTEC's feasibility, developing energy mix scenarios that incorporate OTEC, solar PV, waste-to-energy, and battery storage. Using a high-resolution bottom-up energy system model, it explores transition pathways (2025–2055), assessing OTEC's role in achieving a 100% renewable system.

MHKDR Highlights

The Marine Hydrokinetic Data Repository (MHKDR) is the repository for all data collected using funds from the U.S. DOE's WPTO, including results from tank tests and open sea trials.

TEAMER: Biofouling and Corrosion Study for a Novel Linear Guided Wave Energy Converter – Lou et al. 2025

> This dataset contains data recordings used to generate the figures included in the Post Access Report for the TEAMER project "Biofouling and Corrosion Study for a Novel Linear Guided Wave Energy Converter". The overall objective of this project was to examine the reliability and performance of antibiofouling coatings used for a wave energy converter (WEC) developed by E-Wave Technologies. The particular coatings were selected for their low toxicity and potential compatibility with aquaculture. The aim of this work was to 1) test coating solutions to prevent biofouling growth and saltwater corrosion on the static (paddle and attachment frame surface) components of the WEC that are submerged, 2) determine adhesion of the coatings to system components.

Processed ADCP Current Depth Profiles, Flow Classification, and Power Law Parameters at Tidal Energy Sites – Jang, Neary & Haas 2025

> This dataset contains processed acoustic Doppler current profiler (ADCP) measurements from twenty energetic tidal energy sites in the United States, Scotland, and New Zealand, compiled for the 2025 publication Current Depth Profile Characterization for Tidal Energy Development Measurements were sourced from peer-reviewed literature, the Marine and Hydrokinetic Data Repository, EMEC, and NOAA's C-MIST database, and were selected for sites with depth-averaged current speeds exceeding 1m/s. Data span a range of tidal cycles, depths (5-70m), and flow regimes, and have been quality-controlled, filtered, and transformed into principal flood and ebb flow directions.

TEAMER: Laboratory Evaluation of Dual-Function Oscillating Water Column with Slotted Breakwater - O.H. Hinsdale Wave Research Laboratory – Walker & Lomonaco 2025

> This dataset documents a series of controlled laboratory experiments conducted at the O.H. Hinsdale Wave Research Laboratory to evaluate the performance of a dual-function Oscillating Water Column (OWC) system integrated with a slotted breakwater. The experiments aimed to characterize both wave energy conversion and shoreline protection performance under a range of wave and structural configurations. The OWC array featured ten 1" thick pneumatic chambers (4'x4'x3'), each equipped with a sharp-edged orifice plate, and mounted on a slotted barrier with two tested porosities (10% and 25%). Tests were performed in a wave basin under regular, random, and obliquely incident wave conditions, across two water depths (1.22m and 1.37m).

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.

Contribute to Marine Energy Software

> Like most open-source resources, the more information users contribute, the better the resource becomes! The Marine Energy Software knowledge hub is no different. Visit the Register Software page to find step-by-step instructions on how to add your software to the Marine Energy Software knowledge hub today!

News & Press Releases

Canada's Ocean Supercluster Announces $4.1M AI-powered Monitoring for Sustainable Wave-powered Desalination Project – Oneka Technologies

> Canada's Ocean Supercluster recently announced the $4.1 million AI-powered Monitoring for Sustainable Wave-powered Desalination Project led by Oneka Technologies. This project aims to accelerate the commercialization and AI-enablement of Canadian ocean hardware platforms to support the global scaleup of sustainable wave-powered desalination solutions. This helps expand access to reliable freshwater, and address global challenges including water scarcity, climate change, and environmental sustainability. The project is led by Sherbrooke, QC-based Oneka Technologies, in partnership with Ocean Sonics in Truro Heights, NS, Innovobot Labs in Montreal, QC, and Lengkeek Vessel Engineering in Dartmouth, NS.

Eco Wave Power Reports February 2026 Production Results at Jaffa Port, Achieving Record Output During 3-Meter Wave Conditions – Eco Wave Power

> Eco Wave Power recently announced its wave energy production results for February 2026 at its EWP-EDF One pilot project located at Jaffa Port, Israel. During February 2026, the system operated for approximately nine days under moderate wave conditions, with average daily wave heights ranging between 1 and 2 meters. During these operational days, the project generated approximately 2,000 kWh of electricity. In addition to steady performance under moderate sea states, February marked a significant operational milestone for the Company. Eco Wave Power experienced its highest wave conditions recorded to date at the Jaffa Port site, with waves reaching approximately 3 meters in height.

WavEC releases the source code of ORIOM, its modelling tool for simulating the installation and O&M of offshore renewable energy farms – WavEC Offshore Renewables

WavEC Offshore Renewables announces ORIOM (Offshore Renewables Installation and O&M), an open-code (source available) Python-based modelling tool developed to simulate and assess installation and operations & maintenance (O&M) logistics and costs for offshore renewable energy projects, including (but not limited to) fixed-bottom offshore wind, floating wind, wave energy, and floating solar. ORIOM has been developed and used over the last decade by WavEC in R&D projects and consulting activities. ORIOM was published under the PolyForm Shield License 1.0.0 to improve transparency, peer review, and reproducibility of analyses.

Dutch wave energy device all good during first night at sea – Offshore Energy

A wave energy converter (WEC) developed by Wave Energy Collective (Weco) has spent its first night in the North Sea, with the Hague-based company confirming that everything worked as expected. Weco reported that its Kaizen 2.0 WEC had been deployed with an improved installation procedure and exposed to cold North Sea waters, with all sensors and monitoring and communication equipment working as expected. According to the Dutch company, this gave valuable insights into the system performance and confidence in future testing. The next step will include leaving the system exposed to rougher offshore conditions for an extended period of time and the start of monitoring performance at sea.

A manual for efficient wave energy converter prototyping – University of Michigan

Converting wave motion into electricity holds enormous potential as a renewable energy source, but a lack of standardized prototyping is holding back technological development. A research team led by University of Michigan Engineering designed two small-scale wave energy converter prototypes accompanied by a standardized methodology in an effort to fast-track high-quality wave energy converter research. “This is the first design methodology presented for wave energy converters. Having this standardized methodology will reduce repeated mistakes in early development, launching the technology further towards commercialization,” said Maha Haji, an assistant professor of mechanical engineering at U-M and senior author of the study.

Marine & Energy Working Group Update – States of Alderney

The States of Alderney has broadened the mandate of its Marine and Energy Working Group to drive forward the Island's renewable energy ambitions, following significant progress in 2025. The expanded group will now oversee energy, renewable's, and marine resource development, supported by newly appointed advisor Alex Herschel. A strategic plan has been established to develop Alderney's offshore wind and tidal energy resources for both local use and export, with work covering near term opportunities to 2030 and longer- term potential to 2050. A budget for 2026 has been approved to advance this work, including the development of a Marine Spatial Plan and efforts to secure a viable route to market for exported electricity.