PRIMRE BLAST

30 October 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

ETIPP Applications Open

The U.S. Department of Energy (DOE) recently opened applications for the Energy Technology Innovation Partnership Project (ETIPP), which helps coastal, remote, and island communities develop more affordable, reliable, and secure energy systems through strategic energy planning support and deep-dive technical assistance. Apply by 18 November 2026.

Tribal Energy Capacity Expansion Prize

The U.S. DOE is accepting submissions for the Tribal Energy Capacity Expansion Prize, which is a multi-phase, technology-neutral that aims to expand capacity to represent Tribal priorities in energy permitting and decision-making activities. An informational webinar will take place on 4 November 2026 at 3:00pm EDT. Submissions are due by 4 December 2026.

SULI & CCI Applications Open

The U.S. DOE has opened applications for the Summer 2027 term of the Science Undergraduate Laboratory Internships (SULI) and Community College Internships (CCI) programs, which connect students with participating DOE laboratories/facilities. Application assistance workshops, virtual internship fairs, alumni panel discussions, and office hours are available for both programs in November and December 2026. Apply by 6 January 2027.

Calls for Abstracts

The Call for Abstracts for the 13th International Conference on Scour and Erosion (ICSE) has been extended to 31 October 2026. ICSE will take place from 31 August to 3 September 2027 in Porto, Portugal.

The Call for Abstracts for OCEANS 2027 Aberdeen is open until 15 January 2027. OCEANS will take place from 21–24 June 2027 in Aberdeen, Scotland.

Funding & Testing Opportunities

The Supergen Offshore Renewable Energy (ORE) Hub has opened its Call for Proposals for its Early Career Research Fund, which is designed to help individuals develop as early career researchers and to help develop the science, engineering and technology to deliver offshore renewable energy (offshore wind, wave, or tidal). Apply by 9 November 2026.

The Research Infrastructure Services for Renewable Energy (RISEnergy) project has opened the 5th Transnational Access Call focused on innovative solutions to improve energy systems and/or reduce the life cycle cost of energy technologies. Apply by 18 November 2026.

Career & Internship Opportunities

National Laboratory of the Rockies (NLR) is seeking a Graduate Intern to serve as a curator for the Marine & Hydrokinetic Data Repository (MHKDR) and support other related domain-specific data repositories. Work will consist of curating individual data submissions and advising researchers and scientists on better organizing their project data for submission.

The University of Minnesota Duluth has funding available to support two McKnight Teaching Postdoctoral Fellows broadly focused on real-time cabled-observatories for marine ecosystems, marine/maritime engineering, and marine energy technology development.

The Florida Institute of Technology is inviting applications for a 9-month, tenure-track Assistant Professor in Ocean Engineering, with expertise in marine materials engineering, offshore renewable energy, and/or naval architecture.

Panthalassa is looking to fill numerous positions, including Director of Marine Environmental Impact, Director of Site Operations, and Global Supply Manager for Compute.

University of Strathclyde Glasgow is offering a PhD opportunity in hydroelasticity of floating platforms for tidal turbines. The project will investigate the coupled interaction between platform flexibility, hydrodynamic loading, and tidal turbine forces. Apply by 31 October 2026.

King's College London is offering a fully funded PhD scholarship in tip vortex and turbine wakes control. The project will investigate how coherent vortical structures generated by wind and tidal turbine rotors can be controlled to improve wake recovery and reduce undesirable flow

effects, which are critical challenges to enhance the performance of wind and tidal farms and accelerate our net-zero transition. Apply by 1 November 2026.

Professor Jeff Dusek will be hosting an Undergraduate Researcher at Baldwin Wallace University in summer 2027 through the new Barry Goldwater Summer Research Internship Program. The researcher will support the "User-Centered Design of Marine Energy for Lake Erie" project. Apply by 3 November 2026.

Pacific Northwest National Laboratory is hiring a Masters Intern to work on projects associated with environmental and socioeconomic effects of marine energy (wave, tidal, ocean current, thermal and salinity gradients). The successful candidate will help synthesize and interpret scientific information for interdisciplinary projects and disseminate that knowledge to stakeholders. Apply by 5 November 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

The Supergen ORE Hub is hosting a webinar, "The Offshore Renewable Energy Strategic Research Agenda," on 16 November 2026 from 1:00–2:00pm BST (12:00–1:00pm UTC). Chaired by Professor Deborah Greaves, this webinar will examine the new Strategic Research Agenda report, which sets out the key research challenges and opportunities shaping the future of offshore renewable energy in the United Kingdom.

The U.S. Testing Expertise and Access for Marine Energy Research (TEAMER) program is hosting its next TEAMER Facilities Showcase Webinar on 18 November 2026 from 11:00am–12:45pm PDT (6:00–7:45pm UTC). Join for a live webinar as representatives of TEAMER facilities share the various ways their organizations can help marine energy developers advance their technologies and their businesses.

Upcoming Conferences

The Supergen ORE Hub is hosting its 2026 Early Career Online Forum on 5 November 2026. Register by 3 November 2026.

Marine Renewables Canada is hosting the Marine Renewables Canada: 2026 Conference & Exhibition on 17–19 November 2026 in Ottawa, Canada.

The 12th International Ocean Thermal Energy Conversion (OTEC) Symposium will take place from 30 November to 4 December 2026 in Bora Bora, French Polynesia.

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.

A parametric Morison-inspired model for wave-induced torque fluctuations on a vertical axis tidal turbine – Saouli et al. 2026

> This paper investigates the effect of surface waves on the hydrodynamic torque fluctuations of vertical axis tidal turbines. Wave-induced orbital velocities and accelerations are shown to generate periodic variations of the incoming flow, leading to significant unsteady torque loads. A reduced-order torque model inspired by Morison-type formulations is here developed to study wave-induced effects on vertical axis tidal turbines. The model is derived and expressed in terms of the instantaneous wave-modified tip-speed ratio and decomposes the torque response into three main parameters: a mean shift term, a linear sensitivity coefficient linking torque fluctuations to tip-speed ratio variations and an inertial coefficient proportional to the orbital acceleration.

Mooring control co-design for wave energy systems: Models, algorithms, and opportunities – Said and Ringwood 2026

> Control co-design (CCD) has gained popularity in recent years as a framework for optimising various design aspects of wave energy systems. The mooring system is a key component of floating wave energy converters (WECs), essential for station-keeping, but also significantly affects the overall dynamic response of a WEC. The integration of CCD with a focus on mooring optimisation presents a significant opportunity to enhance the techno-economic viability of WECs, given the substantial costs associated with mooring systems. This paper provides a comprehensive assessment of potential WEC CCD solutions for mooring optimisation, including the identification of key components of the CCD framework and the theoretical and simulation requirements for each part.

Coastal and nearshore aquaculture: Assessing energy use and application of renewable energy resources – Mengual et al. 2027

> This study examined the energy requirements of shellfish (oyster and geoduck) and finfish (sablefish) production in nearshore and coastal aquaculture facilities in Washington State and Hawai'i and assessed the potential for meeting those requirements with renewable energy technologies such as marine, solar, and land-based wind energy. The energy consumption of the various aquaculture operations was calculated through energy models built based on data collected through site visits and operator interviews. The total annual energy use per million shellfish seeds was 15,298 kWh, and the energy use per thousand finfish was 64,420 kWh. Major drivers of energy use were found to be the production of algae, rotifer, and artemia to feed the shellfish and finfish, the processes required to sustain finfish broodstock, and the pumping energy required for seawater distribution.

Marine Energy Projects Database Updates

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

Igiugig Alaska Phase 3 – Ocean Renewable Power Company (ORPC)

Igiugig is a remote Alaskan village that previously relied on diesel generators for power. Since 2014, the Igiugig Village Council and Ocean Renewable Power Company, amongst many other collaborators have partnered to supply the community with hydrokinetic power through multiple phases. Phase 1 involved testing the ORPC's RivGen® device through two summers in 2014 and 2015. Phase 2 was the installation of the RivGen in 2019 and has been supplying power to the village since. The project's permit, authorized in 2019 by the Federal Energy Regulatory Commission, allotted for a second system to be added. Phase 3 involves the installation of RivGen 2.1 in 2022. RivGen 2.1 shares the same capacity and specs as the first RivGen installed in Igiugig.

Open Sea Lab – Energia Marina SpA

This initiative developed a unique experimental project in Latin America, where six research and development groups and business teams from Chile, Italy and the United States joined forces to study the behavior of a laboratory in the open sea powered by a wave energy converter (WEC). The "Open Sea Lab" platform provided important information on ocean conditions, not only for research on marine energy, but also on many other relevant areas of the coastal ocean, such as climate change, currents and swells. For this, submerged sensors collected data on the energy produced, the magnitude and direction of the waves and currents, the temperature, turbidity, pH, oxygen and the forces exerted on anchor lines, all data of high scientific interest.

Herring Shoal Shellfish Tidal Powered Aquaculutre Demo – Coastal Science Institute

Researchers at the Coastal Studies Institute developed and deployed a low cost sensor package powered by a coaxial tidal turbine developed by North Carolina State. The system is designed to measure and transmit dissolved oxygen, water temperature, conductivity, pH, and pressure. Data were transmitted to a mobile dashboard every 10 minutes and are helpful to oyster cultivators, like Herring Shoal Shellfish Co. The system was deployed at Herring Shoals' Blossie Creek location from March 20, 2026 to May 27, 2026 (69 days). Sensor battery charging was successful for the first three weeks of the deployment. It was determined after system recovery that a short in the charging circuit caused the loss of charging capabilities. A recorded webinar about the deployment is available here. After system upgrades, future deployments are planned at the site in 2027.

MHKDR Highlights

The Marine Hydrokinetic Data Repository (MHKDR) is the repository for all data collected using funds from the U.S. DOE's H2O, including results from tank tests and open sea trials.

Ocean Surface Wave Model Hindcast Data-US East Coast, Gulf of Mexico, Caribbean Sea (Puerto Rico & US Virgin Islands) – Meuris et al. 2025

> This dataset contains the raw model outputs from long-term (42 years), high-resolution (approximately 200 m in the nearshore regions) Simulating WAves Nearshore (SWAN) hindcasts covering the East Coast, Gulf of Mexico, Puerto Rico, and US Virgin Islands regions of the US Exclusive Economic Zone (EEZ). Comprehensive bulk wave data is available at the model output nodes and full, directionally resolved, 2D wave spectra are available at "virtual buoy" locations covering select National Data Buoy Center (NDBC) and Coastal Data Information Program (CDIP) stations as well as select wave energy converter test sites. The bulk wave data is available at a 3-hr temporal resolution, and the full 2D wave spectra is available at a 1-hr temporal resolution.

Integral Baseline Environmental Assessment of Preliminary Site for Marine Hydrokinetic Device off the Southeast Coast of Florida – Flanary et al. 2026

> This submission contains data and supporting materials developed for a TEAMER-supported project that evaluated a proposed marine hydrokinetic turbine deployment area within Outer Continental Shelf Block NG17-06, approximately 18.5 km offshore of southeast Florida within the Gulf Stream corridor. The study was conducted as a desktop-based baseline environmental assessment to support future project planning, environmental review, and permitting. Existing publicly available information was compiled and analyzed to characterize environmental conditions, identify potentially sensitive resources and ocean uses, evaluate potential project-environment interactions, and identify information gaps requiring additional investigation.

TEAMER: Oscilla Power Triton Wave Energy Converter – Mundon et al. 2026

> Oscilla Power (OPI) is developing the Triton wave energy converter architecture. This system is a two-body, multi-mode point absorber consisting of a surface float connected to a submerged ring via three tendons. As the surface float is articulated by waves, the two bodies react against each other in all modes of motion to capture mechanical power. The resulting tension variation in each tendon is transmitted to power take-offs (PTO's) housed inside the surface float. The system has the ability to submerge in extreme waves to mitigate storm loadings, a strategy that has been validated both numerically and in physical experiments. OPI is developing different WEC variants based on the Triton architecture that will share these core operating principles.

News & Press Releases

AI wildlife detection announced for Inyanga's pioneering tidal stream energy project – HydroWing

> HydroWing Ltd, the tidal energy division of Inyanga Marine Energy Group, has signed a contract with Ecodetect to introduce AI-driven environmental monitoring solutions to its pioneering tidal stream energy project at Morlais in Wales. Inyanga's 30MW project at Morlais, which is backed by the Welsh Government and the UK government, will use Inyanga's patented HydroWing technology. Ecodetect designs, deploys and operates end-to-end marine wildlife monitoring systems for offshore renewable energy projects. Its surface and seabed-mounted sensor systems, combining underwater cameras and sonar, integrate directly with offshore renewable energy infrastructure. Ecodetect's AI processes the data as it is collected, automatically distinguishing marine wildlife, such as seals, dolphins, fish and diving seabirds, from seaweed, debris and algae.

Eco Wave Power Announces Major Milestone in Collaboration with Fortune 500 Energy Giant Bharat Petroleum as First Purchase Order Is Issued for Wave Energy Project in India – Eco Wave Power

> Eco Wave Power recently announced a significant milestone in its collaboration with Bharat Petroleum Corporation Limited (BPCL), one of India's largest government-owned energy companies and a Fortune 500 corporation, following the issuance of a purchase order for the initial site assessment phase of the companies' planned wave energy project in Mumbai, India. The purchase order, was issued by BPCL for a comprehensive site assessment study at its Marine Oil Terminals at Jawahar Deep, Mumbai. The study represents the first implementation phase following the Memorandum of Understanding (MoU) signed between Eco Wave Power and BPCL in 2025 during India Energy Week, in the presence of India's Minister of Petroleum and Natural Gas, Hardeep Singh Puri, and BPCL's then Chairman and Managing Director, G. Krishnakumar.

Minesto and Morteza Capital join forces to commercialize tidal energy in the Maldives – Minesto

> Minesto has signed a Memorandum of Understanding (MOU) with Morteza Capital, an investment manager and project developer with a strong regional network. The collaboration aims to develop commercial tidal energy opportunities in the Maldives, where Minesto's unique Dragon technology has the potential to contribute to the country's challenging renewable energy transition while preserving its unique natural environment. The Maldives faces significant challenges in transitioning towards renewable energy. Its geographically dispersed islands rely heavily on imported diesel for electricity generation, resulting in high energy costs and carbon emissions. Minesto's Dragon technology offers a promising solution to these challenges.

CETO wave energy unit to hit the water in November – Offshore Energy

Carnegie Clean Energy has completed the fabrication of the buoyant actuator, the prime mover of the CETO wave energy system, and is now preparing it for transport to the Port of Bilbao, Spain, for final quayside activities. The CETO Buoyant Actuator was built locally in the Basque Country using a modular design to simplify road transport, Carnegie said. At the Port of Bilbao, three modular sections will be reassembled on the quayside and finishing elements such as fenders will be attached, after which the buoyant actuator will be lifted into the water portside and towed to Carnegie's berth at the Biscay Marine Energy Platform (BiMEP). Simultaneously, an initial mooring system will be deployed at the berth for the first stage of deployment. The activities representing the first stage of ocean deployment under the ACHIEVE Programme will begin in November.

Ocean Power Technologies and Stratum Holdings Sign Letter of Intent for Proposed Strategic Collaboration to Demonstrate Offshore Renewable-Powered Data Center Assets – Ocean Power Technologies

Ocean Power Technologies recently announced that they have entered into a non-binding letter of intent (LOI) for a proposed strategic collaboration to demonstrate offshore data center assets powered by renewable wave, wind, and solar energy. The LOI contemplates that OPT and Stratum negotiate definitive agreements pursuant to which OPT would grant Stratum a limited, non-exclusive license to certain of its PowerBuoy® patents for use in the demonstration program and make available certain prototype PowerBuoy® assets currently on hand, and Stratum would make available certain GPU assets, including its latest generation NVIDIA B300 GPUs, and related integration expertise. Stratum would also pay OPT a monthly retainer under the terms of the definitive agreements.

Commercialization Hub Aims To Ease Marine Energy Path to Market – NLR

Ocean waves, tides, and river currents contain a tremendous amount of energy. In the United States alone, marine energy could generate enough power to meet nearly 60% of the country's annual electricity needs. Until that vast, largely untapped potential can be realized, marine energy technologies offer plenty of near-term opportunities to generate localized power for small-scale applications ranging from coastal security and defense to ocean observation. But the journey to market was not always smooth sailing for Ocean Motion. Marine energy is still an emerging field, and commercializing new technologies can be fraught with obstacles. Enter the Water Power Commercialization Hub—a home for resources that can offer critical support for marine energy developers navigating the often-circuitous route from concept to commercialization.