



2 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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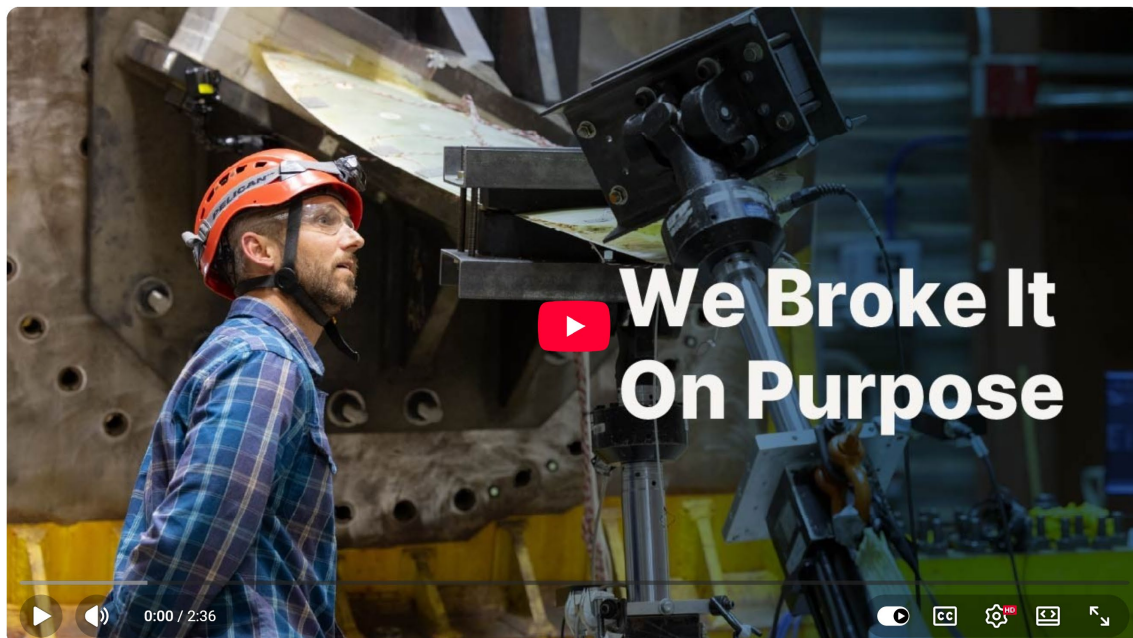
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Announcements

New NLR Video

The National Laboratory of the Rockies (NLR) recently released a new video, [Testing a Tidal Energy Blade to the Breaking Point](#), to highlight how its materials testing allows manufacturers to validate their designs and materials prior to deployment.



Call for MECC Mentors

NLR is seeking energy professionals from industry, government, and academia to mentor student teams participating in the [2027 Marine Energy Collegiate Competition \(MECC\)](#). Mentors provide approximately 15–24 hours of guidance between October 2026 and May 2027, helping students strengthen their projects, explore career pathways, and better understand real-world industry challenges. Professionals at all career stages are encouraged to apply, including young professionals. To give back to the energy community and help develop its future workforce, please [submit the short interest form](#) by 5 October 2026.

LEEP Fellowship

The U.S. Department of Energy (DOE) Office of Technology Commercialization (OTC) recently announced that applications are open for the 2027 cohort of the [Lab-Embedded Entrepreneurship Program \(LEEP\)](#), which provides innovators who have early-stage energy startups and/or emerging technologies with a two-year funded fellowship in one of four National Laboratories, supporting them as they develop and transition their ideas into the market. The 2027 program includes a *Water Power and Energy-Water Technologies* topic area. Apply by 30 October 2026.

ETIPP Applications Open

The U.S. 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.

Calls for Abstracts

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

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.

Funding & Testing Opportunities

The California Ocean Protection Council and California Sea Grant College Program have released a [Request for Proposals for Monitoring and Synthesis to Inform Offshore Development and Marine Ecosystem Management in California](#). This solicitation supports two complementary tracks to assess baseline conditions for current and/or future offshore development in California, including offshore energy. Letters of intent are due by 9 October 2026, and full proposals are due 17 November 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 \(RFTS\) 19](#) applications until 16 October 2026. TEAMER now provides [expertise, non-open water, and open water support](#), as well as [commercialization support](#).

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

The Centre for Ocean Energy Research (COER) at Maynooth University is recruiting a [PhD Researcher in Ocean Energy](#) to work on control co-design for marine renewable energy systems. The PhD student must be able to start by January 2027.

Ocean Renewable Power Company (ORPC) is seeking a [Regulatory Affairs Manager](#) who bridges the gap between complex science, engineering, and public policy to lead the permitting, licensing, and compliance strategies for its global portfolio.

Offshore Renewable Energy Catapult is hiring an [Engineer](#) to join its Research & Engineering team and undertake the technical delivery of research and development projects, programs, and commercial services across the offshore renewables sector.

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

[OES-Environmental](#) is hosting a public webinar, “[Navigating Consenting Processes for Environmental Effects of Marine Renewable Energy: Regulatory and Industry Perspectives](#)” on 13 October 2026 from 8:00–9:30am PDT (3:00–4:30pm UTC). The webinar will include presentations from OES-Environmental on ongoing research and coordination efforts, CorPower Ocean on their current projects and future developments in Portugal and Scotland, and FORCE on its work to advance next generation monitoring tools and approaches in Minas Passage.

TEAMER 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 [13th Program of International Platform on Ocean Energy for Young Researcher 2026](#) will take place 19–23 October 2026 in Saga, Japan. Register to attend virtually by 5 October 2026.

The [Australian Ocean Renewable Energy Symposium \(AORES\) 2026](#) will take place on 9–11 November 2026 in Adelaide, Australia.

The [Marine Renewables Canada 2026 Conference & Exhibition](#) will take place on 17–19 November 2026 in Ottawa, Canada.

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.

Experimental and numerical characterization of a large-stroke winch-based power take-off for wave energy converters – Hsu et al. 2026

Point absorber wave energy converters face critical survivability and efficiency challenges due to limited stroke constraints and destructive end-stop collisions in extreme seas. This study presents a 1 kW-scale winch-driven power take-off system with a 10 m active stroke, designed to geometrically decouple the internal drivetrain from constrained motion rails. To evaluate the drivetrain without hydrodynamic uncertainty, land-based crane trials imposed repeatable 10 m tether displacements, while the prescribed 1 m/s line velocity was selected to be broadly consistent with a 1:6 Froude-scaled representation of full-scale extreme vertical motion. The controlled actuation isolated the internal energy cascade and enabled stage-wise separation of speed-dependent mechanical losses from load-dependent electromagnetic losses across resistive loads of 4.5 to 45 Ω .

A risk-informed multicriteria framework for ocean current energy site selection for Small Island Developing States – Oladejo et al. 2026

Small Island Developing States (SIDS) such as Cabo Verde (CV) face persistent energy insecurity due to heavy reliance on imported fossil fuels and limited deployment of land-based renewables. This study develops a transferable, risk-informed multicriteria decision analysis (MCDA) framework for ocean current energy site selection, integrating high-resolution hydrodynamic modeling, environmental constraints, techno-economic factors, and tropical cyclone (TC) exposure. Using a high-resolution ocean circulation model that resolves tidal and inter-island flow dynamics, we characterize the spatial and temporal variability of surface currents and associated power densities across CV. These resource layers are combined with depth, distance-to-coast, protected areas, shipping routes, and TC hazard fields within an MCDA structure supported by sensitivity analysis.

A modular system identification approach to spread mooring dynamics: Numerical and experimental case studies – Paduano et al. 2026

Numerical simulation of mooring dynamics is computationally expensive, which limits its use in optimisation and control loops; data-driven system identification (SI) offers a complementary route. This work reviews the state-of-the-art of SI for mooring modelling and proposes a modular framework in which the empirical transfer function of a single mooring line is identified in the frequency domain and used, via a coordinate change, to reconstruct the global response of spread taut and semi-taut mooring configurations. The framework is assessed on a numerical wave energy converter benchmark and validated experimentally on a 1:96 reduced-scale floating offshore wind turbine with a taut-leg mooring.

MHKDR Highlight

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.

TEAMER: Numerical Modeling, Analysis, and Optimization of Oscillo-Drive Wave Energy Converter – Dhanak et al. 2026

A numerical modeling and optimization framework has been developed for the Oscillo-Drive Wave Energy Converter (WEC) being developed by Wave Water Works LLC, with technical assistance from Florida Atlantic University under the DOE TEAMER program. The primary objective was to establish a wave-to-wire modeling capability to investigate the influence of float geometry, submergence level, power take-off (PTO) characteristics, and sea-state conditions on device performance. This was achieved by integrating Capytaine, BEMIO, WEC-Sim, MATLAB, and WECOPTtool into a unified workflow spanning hydrodynamic analysis (boundary-element generation of hydrodynamic coefficients), time-domain simulation, and system optimization under both regular and irregular wave conditions.

Hydrophone Data from Wave-Powered Water Pump Ocean Deployment - March 2023 – Kimball and Wosnik 2026

This submission includes acoustic data from two hydrophones, moored near the surface collecting environmental data during a wave-powered water pump ocean deployment. The provided resources consist of two compressed .zip folders containing a total of 700 GB of uncompressed data, with each folder representing one of the two hydrophones. The folder identification numbers 5592 and 5600 refer to the serial numbers of the hydrophones. Please see [MHKDR Submission #499](#) for additional details surrounding the deployment, including hydrophone information, mooring set up, locations and dates. The appendix of the master's thesis provided in the linked MHKDR submission contains relevant information regarding the events surrounding the deployment.

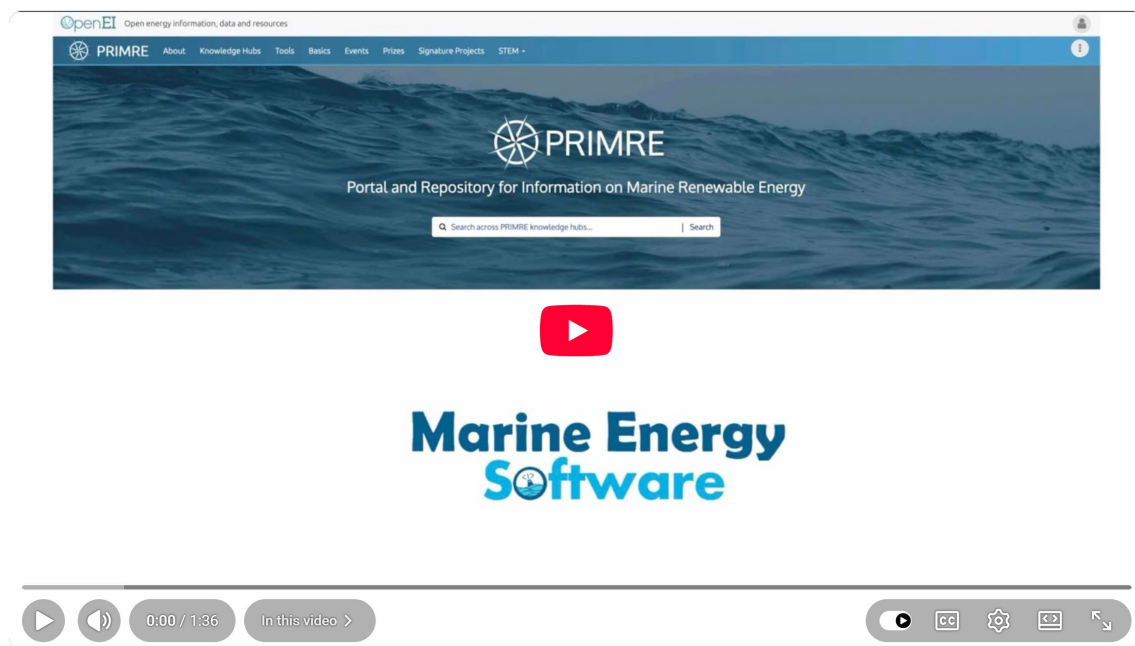
[TEAMER: Dynamometer Testing of a Magnetically Geared Electrical Generator](#) – Bassett & Gibbs 2025

Ocean Renewable Power Company's (ORCP) RivGen device is a horizontal cross-flow turbine featuring a proprietary power takeoff unit. This system has been proven in real-world conditions in Alaska and is now the longest operating hydrokinetic project in the Americas. ORPC systems typically use direct drive permanent magnet (PM) generators which are highly efficient, but large and relatively costly. To reduce cost ORPC has identified several geared PM generators that may be suitable as replacements, however the efficiency of these components has not been evaluated across a range of operating conditions. The data included here were derived from dynamometer testing of a candidate replacement generator for RivGen, installed a deployment-ready, submersible enclosure and all relevant mechanical components.

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.

[Marine Energy Software Overview Video](#)



News & Press Releases

Wales' Marine Energy Test Area secures investment from The Crown Estate – Marine Energy Test Area

Wales' Marine Energy Test Area (META), has secured a one-year investment from The Crown Estate, strengthening its position as a nationally significant asset for marine energy innovation. The investment will help sustain META's operations and support the development and testing of the next generation of energy technologies, helping to accelerate the UK's transition to net zero. Located in and around the Milford Haven Waterway in Pembrokeshire, META, Wales' national marine energy test centre, plays a critical role in advancing innovation across the sector. It offers eight unique, pre-consented sites for at-sea testing of devices and components. By providing access to these dedicated test sites, alongside extensive marine data and operational support, META helps reduce the time, risk and cost associated with technology deployment, enabling early-stage testing for wave, tidal, floating offshore wind and offshore hydrogen components.

Bahamas studying ocean thermal energy conversion potential – Offshore Energy

A consortium of Global OTEC, a UK-based pioneer in ocean thermal energy conversion (OTEC) development, and the Oceanic Platform of the Canary Islands (PLOCAN) has been selected to study a site in the Bahamas for OTEC. This has been requested by the Government of the Bahamas to provide an evidence base for a go or no-go decision on advancing OTEC toward project implementation. According to Global OTEC, the lead technical partner, over 90% of electricity in the Bahamas is generated from imported diesel and heavy fuel oil, leaving households and businesses exposed to volatile international fuel prices and some of the highest electricity tariffs in the Caribbean. The feasibility study will assess integration with seawater reverse osmosis, seawater district cooling, and data center cooling alongside the core power system, as well as matters related to environmental and social concerns and considerations.

ACHIEVE Update: Fabrication, Assembly and Deployment Prep – Carnegie Clean Energy

Carnegie Clean Energy is pleased to provide an update on the recent fabrication, assembly and deployment preparation activities undertaken on the Company's leading wave energy technology, CETO, under the ACHIEVE Programme, which is funding CETO's grid connected build and installation at the Biscay Marine Energy Platform (BiMEP). Recent ACHIEVE activities include the foundation structures have had the finishing touches completed in preparation for deployment. - Fabrication and assembly of the PTO modules have continued with supply chain partners. Challenges with interfaces between suppliers have been encountered but thoughtfully addressed by the technical team, delivering valuable learnings from the first ever CETO rotary electric power take-off system built.

CETO wave energy unit's foundation ready for deployment at BiMEP – Offshore Energy

Carnegie Clean Energy has completed the foundation structures of the scaled CETO wave energy unit in preparation for deployment at Biscay Marine Energy Platform (BiMEP) as part of the ACHIEVE Programme. CETO is a fully submerged, point absorber-type wave energy technology device. A submerged buoy sits a few meters below the surface and moves with the ocean's waves. This orbital motion drives a PTO system that converts this motion into electricity. Carnegie Clean Energy reported today, September 22, that the final preparations had been completed for the foundation, making it ready for deployment of the CETO Buoyant Actuator commencing in October as the first step in ACHIEVE Programme's staged deployment, commissioning and testing at BiMEP.

Can Surge Wave Tech Survive the Open Ocean? – NLR

For a West Coast kid who fears ocean waves, marine energy would seem like an odd path to pursue—and the mountains a strange place to start. But Brittany Lydon did both. “I grew up like an hour from Seattle, so I love the water. I love the Sound. I love the lakes,” she said. “And I'm actually very, very scared of ocean waves. I find them so terrifying.” Yet, when she first encountered marine energy as a floundering University of Washington (UW) undergrad, she was hooked. “I was in civil and environmental engineering, and they had us do a seminar where [people from] all the subsections of civil give a talk to help you learn more about each field,” she said. “And I hated all of them.” Until one person gave a presentation on marine energy. It was a pivotal event that set her on the path toward a career in the emerging field. And that path eventually led to the Sea Wave Environmental Lab (SWEL) at NLR.