



16 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!

[Announcements](#)
[Upcoming Events](#)

[Tethys Eng. Documents](#)
[Telesto Highlight](#)

[Marine Atlas Updates](#)
[News & Press Releases](#)

Announcements

Sharing is Caring

Enjoying the PRIMRE Blast? Help us grow the community by sharing it with a colleague, student, or anyone interested in marine energy. A quick recommendation can connect others with the latest research, events, funding opportunities, and industry news. Know someone who would benefit? Forward this issue and [invite them to subscribe here!](#)

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 [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 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 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

Pacific Northwest National Laboratory is hiring a [Research Line Manager 3](#) to serve as Group Leader for the Integrated Coastal Research and Technology Group. The research focus includes marine research and development of technology, marine and coastal operations, biogeochemical processing between the terrestrial aquatic interfaces, critical mineral extraction and mining, bioenergy development, and ecosystem structure and function. Apply by 21 October 2026.

The Crown Estate is looking for a [Senior Engineering Manager \(Geotechnical & Geology\)](#) to provide technical leadership for geological and geotechnical evidence within the Marine Engineering & Analytics team. Apply by 26 October 2026.

The Caribbean Centre for Renewable Energy and Energy Efficiency (CCREEE) is seeking a [Project Manager – Marine Energy](#) to lead the day-to-day implementation and coordination of a multi-country marine/wave energy initiative across Antigua and Barbuda, Barbados, Grenada, and Saint Vincent and the Grenadines. Apply by 27 October 2026.

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.

Oscilla Power, Inc. (OPI) is hiring an [Electrical/Electronics Systems Engineer](#) to join a small but growing team working on the commercialization of marine energy for grid and defense applications. This position will involve the continued development and improvement of the electrical systems for OPI's wave energy systems.

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

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.

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.

Upcoming Hybrid Event

Coastal Studies Institute is hosting the next installment of its Science on the Sound Lecture Series, “[Powering the Oyster Farm: Using Marine Energy to Monitor Coastal Waters](#),” on 22 October 2026 at 6:00pm EDT at the East Carolina University Outer Banks Campus in Wanchese, North Carolina, USA. Research Technician Lindsay Wentzel and Research Assistant Trip Taylor will explore how marine energy and environmental monitoring technologies are being used to better understand conditions at coastal oyster farms. The event will be [livestreamed](#).

Upcoming Conferences

The Supergen ORE Hub is hosting its [2026 Early Career Online Forum](#) on 5 November 2026. Register by 3 November 2026.

The [3rd Australian Ocean Renewable Energy Symposium \(AORES\) 2026](#) will take place on 9–11 November 2026 in Adelaide, Australia.

The [12th Ocean Thermal Energy Conversion \(OTEC\) Symposium 2026](#) will take place from 30 November to 3 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.

Wave-resolved dynamics and power generation at the Mutriku wave farm: Oceanic resonance and evidence of Zipf's law – Ibarra-Berastegui et al. 2026

This study analyzes SCADA data from the Mutriku wave farm, sampled every 0.5 s. 3.2 million pressure cycles were identified in the OWC air chamber and classified into nine daily sea-state categories. From these data, 7,353 operating points linking instantaneous pressure, turbine speed, and power output were extracted to fit the plant's operational surface. The relationship between air-chamber dynamics and ERA5 ocean conditions showed that the chamber behaves as a resonant cavity: wave period is associated with cycle duration, while wave amplitude governs chamber pressure. Finally, the compliance of both wave-farm and ERA5 variables with Zipf's law was assessed, identifying variables that do and do not follow the law, and providing a first step toward a systematic evaluation of Zipfian behavior in ocean processes. A Supplementary Material section includes 3D visualization files and additional plots.

Full-Scale Multistage Pressure-Retarded Osmosis for Osmotic Energy Generation: Optimization of Specific and Net Energy Production – Suárez-Alfonso and Ruiz-García 2026

Salinity gradient energy, also known as blue energy, is a clean and renewable option for electricity generation with no direct CO₂ emissions. Among the available technologies, pressure-retarded osmosis (PRO) stands out, although its large-scale implementation is not yet economically viable, so predictive models are essential to assess its real potential. In the present work, a multistage PRO system of up to three stages, with one–three hollow-fiber membrane modules (HFMMs) arranged in series per stage, was simulated and the operating conditions were optimized. The model accounts for axial pressure drops, feed concentration and draw dilution along each module, considering two salinity gradients of 29.5 and 59.5 g L⁻¹. The maximum net specific energy generation reached 421.48 Wh m⁻³ with three stages under the 59.5 g L⁻¹ gradient. Adding HFMMs in series

benefited the two-stage system but slightly penalized the three-stage one, and the net specific energy decreased monotonically as the ratio of pressure vessels between the first and the second stage increased.

System Integration and Sea Trials of a Containerized Ocean Thermal Energy Conversion Prototype – Liu et al. 2026

Ocean Thermal Energy Conversion (OTEC) is a promising renewable energy technology for remote islands, offshore platforms, and maritime infrastructure, yet its commercialization is constrained by low cycle efficiency, high auxiliary energy demand, and the engineering challenges associated with large-scale seawater transport. This study presents the integration and experimental evaluation of a 20 kW class containerized OTEC prototype using R134a in a closed Rankine cycle. The working fluid circulates within the power-generation module, while warm surface seawater supplies the evaporator and cold deep seawater is pumped through an insulated intake pipe to the container-mounted condenser. The prototype integrates a radial-inflow turbine, stainless-steel heat exchangers, circulation pumps, and a programmable logic controller-based control system.

Telesto Highlight

[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.

Navigating Certification in Marine Energy

Telesto offers valuable information and resources focused on certification processes for marine energy technologies. Certification helps verify that devices meet established standards and performance criteria, supporting market acceptance and project success. Whether you are a device developer or project planner, important questions include:

- What certification pathways are available for marine energy devices?
- How does certification impact device testing and validation?
- What are the benefits of obtaining certification for project financing and deployment?

The Telesto [Certification](#) page provides clear guidance on these topics, helping users understand the certification landscape and requirements. This resource supports the advancement of marine energy technologies by promoting credibility, reliability, and confidence among stakeholders.

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.



News & Press Releases

[Orbital Marine Power secures European Commission approval for landmark tidal energy array](#) – Orbital Marine Power

Orbital Marine Power recently announced that the European Commission has given the Go Decision for EURO-TIDES, clearing the landmark project to move into construction. The tidal energy array will be deployed at the European Marine Energy Centre (EMEC) in Orkney, Scotland. The Go Decision marks a major milestone for a project first announced in October 2023, when the European Commission selected Orbital to lead delivery of the array under Horizon Europe funding. Having successfully passed a formal review of its engineering, permits and financing, EURO-TIDES has now been approved to move into construction, with Orbital targeting deployment in 2028, subject to completion of its current investment round. The array will be made up of four turbines – three of Orbital’s next-generation O2-X turbines and one O2, the company’s proven turbine already generating power for the UK grid – built and connected to operate as a single coordinated tidal energy farm.

[Minesto reaches industry-leading 48-hour service turnaround, supporting competitive LCOE](#) – Minesto

Minesto has validated its industry-leading service turnaround capability as upgraded Dragon 4 tidal power plant returned to operation in only 48 hours following its latest service intervention, demonstrating a unique service concept that delivers high availability and low operating costs. After years of improving the process, Minesto recently successfully achieved its fastest turnaround to date, with a complete service intervention of a Dragon 4 power plant executed within 48 hours in Vestmannastrandir,

Faroe Islands. The intervention included recovery of the power plant, extraction of the nacelle for inspection of the upgraded generator following its first 10 weeks of operation, various maintenance activities, reassembly, quality and functional checks, and finally redeployment offshore. This intervention was conducted during a low-production tidal period, minimizing the impact on overall energy generation.

Weco's wave-powered Denshi buoy proves itself at NATO's REPMUS 2026 – Weco

In collaboration with the Dutch Ministry of Defence, Weco brought its wave energy buoy to the world's largest maritime unmanned systems exercise, showing that offshore sensors and communications no longer have to go dark when the battery runs out. Dutch startup Weco has successfully demonstrated Denshi, its compact wave-powered buoy, at REPMUS 2026 in Portugal. Over the exercise, Denshi turned the constant motion of the Atlantic into a continuous power supply for equipment at sea. The result: persistent monitoring and a set of new capabilities for navies operating uncrewed systems offshore. On board, Denshi carries a battery, compute and LTE/4G/5G communications, with other links available as add-ons. That makes it more than a power source: it is a power and communications platform for whatever payload is integrated.

Minesto and Trayen Power enters collaboration agreement to capture business opportunities in Chile – Minesto

Minesto has signed a Memorandum of Understanding (MOU) with Chilean project developer Trayen Power to collaborate on the development of tidal and ocean current energy projects in Chile. Chile represents a particularly attractive market for Minesto, combining world-class tidal and ocean current resources with both large utility arrays and microgrid opportunities. The collaboration establishes a framework for Minesto and Trayen Power to jointly develop commercial opportunities for Minesto's Dragon Class technology in Chile. The initial focus will be on identifying and evaluating suitable sites, progressing feasibility work and securing funding for project development. The long-term objective is to develop tidal and ocean current energy production supplying renewable electricity to the local grid or directly to local energy users.

How will wave and tidal tech fit into future energy systems? – Enlit

Reflecting the fact that siloed working has always plagued the traditional energy sector, the new breed of ocean energy stakeholders approach their work with a keen eye on how their industry can slot into the energy mix and become a valuable – and complementary – component of the future renewables landscape. Several of these players met up in a session at the Ocean Energy Europe conference this week to discuss how their solutions can be rolled out to complement other forms of renewable energy and to explore what the path to that mutually beneficial future might look like. The session evaluated how tidal and wave energy can strengthen future renewable electricity systems and reduce reliance on storage and hydrogen.