



3 January 2025

The [Tethys](#) team here at the [Pacific Northwest National Laboratory](#) wishes you a very happy holiday season and a wonderful New Year! This special end-of-the-year edition of the [Tethys Blast](#) features a few announcements, opportunities, and upcoming events, as well as a brief look at some 2024 Tethys statistics! Thank you for contributing to Tethys throughout the year!

[Announcements](#)

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[2024 Tethys Stats](#)

Announcements

New Tethys Story

[Establishing Baseline Data on Bat Activity in The Offshore Environment: Developing Tools and Models to Quantify Risk of Offshore Wind Energy Development](#) by EPRI

The Electric Power Research Institute (EPRI) is spearheading a collaborative study to assess the potential risks that offshore wind development may pose to bats along the U.S. Pacific Coast. In Phase 1 (2023), the team started identifying potential locations and site partners to host bat detector equipment. In Phase 2 (2024 to 2026), the team will deploy the equipment and collect, analyze, and model data in relation to weather and geospatial activity. Guided by EPRI, the project team—which includes Bat Conservation International, Stantec, the U.S. Geological Survey, and Woods Hole Group—is collaborating with various private, non-profit, academic, and state/federal regulatory stakeholders. [Read more in the latest Tethys Story here.](#)

Marine Energy Illustrations Survey

Pacific Northwest National Laboratory (PNNL) is currently developing new marine energy illustrations and is [seeking input from marine energy scientists and educators](#) regarding which graphics would be most beneficial to their work. The survey solicits preferences on illustration styles, types of graphics, and ideas for illustrations, with some example illustrations provided. The final illustrations will be made publicly available on [Tethys](#) and [Tethys Engineering](#).

SCRAM Update

A major update to the SCRAM collision risk model for Endangered Species Act-listed birds in the U.S. Atlantic (“SCRAM 2”) has been released by the Bureau of Ocean Energy Management (BOEM). The BOEM report, web application, user manual, and other materials are available at <https://www.collisionrisk.org/scram>. Continued use of the original version of SCRAM is not recommended; SCRAM 2 includes major updates and is considered the best available science for estimating collision risk for protected bird species in the U.S. Atlantic.

WINDEXchange Community Benefits Resources

WINDEXchange features a variety of community benefits resources, including the [Wind Energy Community Benefits Guide](#) and a [Wind Energy Community Benefits Database](#) that provide examples and information on structuring community benefit agreements that align with local needs and promote equity. Check out [WINDEXchange](#) for more wind energy resources!

Calls for Abstracts

The [Call for Abstracts](#) for the [40th International Workshop on Water Waves and Floating Bodies \(IWWWFB 2025\)](#) is open through 10 January 2025. The workshop will take place on 11-14 May 2025 in Shanghai, China.

The [Call for Abstracts & Paper Submissions](#) for the [16th European Wave and Tidal Energy Conference \(EWTEC 2025\)](#) has now opened until 13 January 2025. EWTEC will take place on 7-11 September 2025 in Madeira, Portugal.

The [Call for Abstracts](#) for the [European Geoscience Union \(EGU\) General Assembly 2025](#) is now open through 15 January 2025. The EGU General Assembly 2025 will take place on 27 April–2 May 2025 in Vienna, Austria and online.

The [Call for Abstracts](#) for the [8th Conference on Wind Energy & Wildlife Impacts \(CWW 2025\)](#) is now open until 31 January 2025. CWW will take place on 8-12 September 2025 in Montpellier, France.

Funding & Testing Opportunities

Washington Maritime Blue, a leading maritime innovation cluster in the Pacific Northwest, has opened applications for its [2025 Blue Ventures Programs](#), which will support early-stage founders validating their technology and preparing for market entry, including for renewable ocean energy. Applications are due 6 January 2025.

The U.S. DOE’s Wind Energy Technologies Office has issued a [Funding Opportunity Announcement](#) in coordination with Innovation Fund Denmark to support U.S.-Danish consortia collaborating on shared research objectives to improve floating offshore wind energy mooring and anchoring technologies and methods towards commercialization and industry growth. Submissions are due 14 January 2025.

The U.S. State of Maine's is [seeking applications](#) for science-based services from consultants with strong knowledge of Gulf of Maine science and research, Gulf of Maine stakeholders, state government, and offshore wind to address high priority research needs identified by the Maine Offshore Wind Research Consortium. Applications are due 17 January 2025.

Career Opportunity

PNNL is soliciting applications for a [Postdoctoral Research Associate – Coastal Biogeochemistry](#) to study different marine carbon dioxide removal (mCDR) technologies. Applications are due 13 January 2025.

Upcoming Events

Upcoming Webinars

France Énergies Marines is hosting a webinar, "[Suivre les effets des parcs éoliens en mer sur les poissons \(Tracking the effects of offshore wind farms on fish\)](#)", on 23 January 2025 from 10:30am-12:00pm CET (9:30-11:00am UTC). The webinar will be hosted in French and will discuss the use of acoustic telemetry during the 2-year FISHOWF project.

The U.S. Offshore Wind Synthesis of Environmental Effects Research ([SEER](#)) project is hosting a webinar, "[Exploring the Potential Environmental Effects of Offshore Wind Energy in the U.S. Gulf of Mexico](#)" on 23 January 2025 from 9:00-11:00am PST (5:00-7:00pm UTC). Speakers will discuss offshore wind siting/permitting in the U.S. Gulf of Mexico, relevant technologies and infrastructure, potential environmental effects of offshore wind development in the region, monitoring and mitigation methodologies, and knowledge gaps and data needs. [Register here.](#)

The Nature Conservancy is hosting a webinar, "[Sharing the Social Value of Offshore Wind Through Community Benefits Agreements](#)", on 23 January 2025 at 12:00pm EST (5:00pm UTC). Speakers will discuss their experience supporting community benefit agreements across Europe and Japan, and a new report which reviews examples of how the U.S. federal government and states are incentivizing and incorporating community benefits agreements into their offshore wind development processes.

Renewables Grid Initiative and OCEaN - North & Baltic Seas are kicking off a new webinar series to present highlights from their [recent report](#) and lessons learned from OCEaN's exploration of the topic of mitigation. The webinar, "[Fostering Healthy Seas: Avoidance and Minimisation of Environmental Impacts from Offshore Wind and Grids](#)", will take place on 23 January 2025 from 11:00am-12:15pm CET (10:00-11:15am UTC).

The Supergen Offshore Renewable Energy Hub is hosting a webinar, "[The use of Dynamic Bayesian Network Modelling for the Spatial and Temporal Understanding of Marine Ecosystem Dynamics](#)", on 29 January 2025 from 1:00-2:00pm UTC. During the webinar, Dr. Neda Trivonova from the University of Aberdeen will discuss marine ecosystem dynamics.

Upcoming Conferences

The Oceanic Network is hosting the [2025 International Partnering Forum \(IPF\)](#) from 28 April to 1 May 2025 in Virginia Beach, Virginia, U.S. Early bird registration is open until 3 March 2025.

Save the date! The University Marine Energy Research Community (UMERC) will be holding their [UMERC 2025 Conference](#) from 12-14 August 2025 in Corvallis, Oregon, U.S. Registration information, agenda, calls for abstracts/posters, and more information will be coming soon.

Upcoming Course

The Atlantic Marine Energy Center is hosting a fully funded, intensive course, [Introduction to Marine Energy](#), from 3-9 August 2025 at the University of New Hampshire in Durham, New Hampshire, U.S. The course is designed for U.S. undergraduate students (rising juniors and seniors) and beginning graduate students interested in the field of marine energy. Applications are due 10 January 2025.

2024 Tethys Stats

Over the past year, the Tethys Team has added over 750 marine and wind energy documents to the [Tethys Knowledge Base](#), reaching over 10,000 documents total! Tethys has also received over 465,000 pageviews and been visited by over 230,000 users!

Top 10 Viewed Marine Energy Documents

1. [OES-Environmental 2024 State of the Science Report: Environmental Effects of Marine Renewable Energy Development Around the World](#) – Garavelli et al. 2024
2. [OES-Environmental 2020 State of the Science Report: Environmental Effects of Marine Renewable Energy Development Around the World](#) – Copping & Hemery (Eds.) 2020
3. [Harnessing the Power of Ocean Energy a Comprehensive Review of Power Generation Technologies and Future Perspectives](#) – Thennakoon et al. 2023
4. [Environmental Effects of Tidal Energy Development: Proceedings of a Scientific Workshop](#) – Polagye et al. 2011
5. [Animal displacement from marine energy development: Mechanisms and consequences](#) – Hemery et al. 2024
6. [Annex IV 2016 State of the Science Report: Environmental Effects of Marine Renewable Energy Development Around the World](#) – Copping et al. 2016
7. [Offshore Aquaculture: A Market for Ocean Renewable Energy](#) – Freeman et al. 2022
8. [La Rance Tidal Power Plant: 40-Year Operation Feedback - Lessons Learnt](#) – de Laleu 2009
9. [Islay Limpet Wave Power Plant Report](#) – The Queen's University of Belfast 2002
10. [Country-Specific Guidance Document: United States](#) – OES-Environmental 2021

Top 10 Viewed Wind Energy Documents

1. [Electromagnetic Fields \(EMFs\) from subsea power cables in the natural marine environment](#) – Gill et al. 2023
2. [Characterisation of underwater operational noise of two types of floating offshore wind turbines](#) – Risch et al. 2023
3. [Environmental Impacts of Offshore Wind Farms in the Belgian Part of the North Sea: Progressive Insights in Changing Species Distribution Patterns Informing Marine Management](#) – Degraer et al. 2024
4. [Is it safe for honey bee colonies to locate apiaries near wind turbines?](#) – Fourrier et al. 2023
5. [U.S. Offshore Wind Energy Noise Reduction Associated with Installation of Fixed-Bottom Foundations: Workshop Report](#) – Green et al. 2023
6. [Long-term impacts of the Smøla wind farm on a local population of white-tailed eagles \(*Haliaeetus albicilla*\)](#) – Stokke et al. 2024
7. [Review of seabird monitoring technologies for offshore wind farms](#) – Nicholls et al. 2022
8. [Standard Investigation of the Impacts of Offshore Wind Turbines on the Marine Environment \(StUK4\)](#) – German Federal Maritime and Hydrographic Agency 2013
9. [Noise pollution from wind turbines and its effects on wildlife: A cross-national analysis of current policies and planning regulations](#) – Teff-Seker et al. 2022
10. [Life-cycle green-house gas emissions of onshore and offshore wind turbines](#) – Wang & Jinxiang 2019

Top 10 Countries Visiting Tethys

1. United States
2. United Kingdom
3. India
4. Canada
5. China
6. Singapore
7. Australia
8. Germany
9. France
10. Netherlands

Top 10 Cities Visiting Tethys

1. Richland, WA, U.S.
 2. London, UK
 3. Washington, DC, U.S.
 4. Fort Meade, MD, U.S.
 5. Seattle, WA, U.S.
 6. New York, NY, U.S.
 7. Moses Lake, WA, U.S.
 8. Lakewood, CA, U.S.
 9. Los Angeles, CA, U.S.
 10. Cheyenne, WY, U.S.
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The Tethys Team

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