



## PORTOS Newsletter | Apr 2021 - Sep 2021



PORTOS – Ports Towards Energy Self-Sufficiency continues to promote sustainability in the Atlantic Area through advanced research on marine renewable energy for the supply of ports. However, due to the COVID-19 pandemic, some project events had to be rescheduled or adapted to a telematic approach.

A Smart Grid course was given at the École d'ingénieurs en génie des systèmes industriels (EIGSI) on May 20 and 21. This course was held in collaboration with Pole S2E2. The Smart Grid research lab as well as the Energy Battery Storage were presented.



On another note, the second edition of the OpenLab organized by the University of Oviedo was celebrated on June 3. This event was held online due to COVID-19 sanitary restrictions. This was a full-day event which involved 172 registered participants from a wide variety of contexts, so as to promote marine renewable energies at ports.

This event featured activities such as presentations, Q&A sections, a thematic exhibition on renewable energies, an interactive test and the delivery of PORTOS merchandising. The live sessions were recorded and uploaded to the PORTOS website for delayed visualization.



Some of the applications chosen by the selection panel have already been successfully tested within the framework of Work Package 4: Linking Proofs of Concepts and Society. However, the call for marine renewable energy device testing was also hampered by COVID-19 related restrictions. Therefore, the call remains open and the deadline for testing was extended until December 2021.

In June, the company Wedge Global S.L. tested a novel wave energy converter at the wave flume of the University of Santiago de Compostela. This device can change its weight distribution for resonance control. This approach can provide a higher electric output through smaller, safer devices.

On September 6, the third PORTOS Thematic Seminar was organized by the University of Plymouth as a side event of the 14th European Wave and Tidal Energy Conference (EWTEC 2021). The purpose of this online seminar was to inform stakeholders and end users of the PORTOS outputs and to involve them further into the project. The current status and way ahead of the PORTOS project was presented in this webinar, as well as some interesting outputs of the PORTOS project, namely:

- a case study of the Shannon Estuary in terms of hydrokinetic energy exploitation;
- a case study of the Port of Leixões in terms of wave energy characterization and exploitation;
- a case study of the Port of Vigo in terms of numerical modelling of wind energy resource;
- a solar energy estimation study at three case study ports (Port of Leixões, Port of Vigo and Port of Shannon Foynes); and
- a numerical proof of concept of a novel FPV structure for the marine environment.

The fourth PORTOS Coordination meeting was held by the University of Plymouth on September 13. This meeting had to be held online due to COVID-19 restrictions. As usual, the progress of each Work Package was monitored to identify and solve issues. Advances were shared and future steps discussed.

The Port of Vigo organized its second OpenPort event in the context of the Green Energy Ports Conference, on September 22 and 23. The goal of the event is present to the society what actions and decisions are currently being developed by ports, both in a national and international framework, in the fight against Climate Change.



This 2-day event was focused on the role of ports in the Green Deal and, due to sanitary restrictions, had to be held in a hybrid format. A total of 557 attendees participated in it. Around 30 speeches by national and international speakers were made.

To ensure the diffusion of the advances in the scope of PORTOS, 10 articles were published in several scientific journals so far. The outcomes of PORTOS were also presented in 14 different conferences.

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