

DTOceanPlus, a European project dedicated to ocean energy in which French actors are strongly involved

With a total budget of €8 million, this H2020 project aims to develop and test a suite of digital design tools for tidal and wave systems. With 18 partners, DTOceanPlus gives pride of place to the French players in the sector.

An ambitious project for the ocean energy sector

The objective of the DTOceanPlus partners is to develop a suite of open source software tools for the design and optimisation of wave and tidal farms.

On the basis of the work carried out under the previous FP7 - DTOcean project, software tools are developed taking into account the expectations of end-users identified during a consultation, but also the functionalities not covered by the various tools available on the market. Once developed, the various tools will be integrated into a software suite and tested with real scenarios.

At the end of the project, this suite will be made available to all, and in the first place: farm and technology developers, project leaders, design offices, public and private investors. It will also provide standards data formats for the description of ocean energy technologies at different levels of complexity and farm design improvement routines based on global assessment metrics. This will allow more robustness in technological choices with a significant impact in lowering the average cost of the energy produced by these systems.

4 French partners operate 26.8% of the total project budget

The 4 French partners operate a total of €2.12 million, i.e. 26.8% of the total budget. Thanks to their complementary skills, they are able to contribute to all stages of the project:

- France Energies Marines, the Institute for Energy Transition dedicated to offshore renewable energies, which is distinguished by a transversal approach allowing it to develop 3 modules of the software suite, namely: site characterisation, anchor and foundation design and environmental and socio-economic impact assessment.
- Open Cascade, an SME specialized in scientific and technical computing, ensures the supervision of digital developments and the integration of tools in the same software suite.
- Sabella, an internationally recognized SME in the tidal sector, which develops the D10 tidal turbine, whose contribution is focused on testing the "tidal technology" part of the software suite.
- Bureau Veritas, one of the world leaders in certification, inspection and testing in many fields, supports the other partners in the tool testing phases.

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DTOceanPlus in short

Subject: development and testing of a suite of digital tools for the design of tidal and wave systems

Duration: 3 years (May 2018 to April 2021)

Budget: €8 million

Funding: EU Research and Innovation Programme H2020 (Grant Agreement No 785921)

Leader: Tecnia (Spain)

Partners:



Learn more at dtoceanplus.eu



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