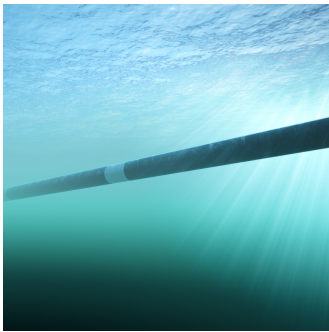


REDSUB

Electricity grid to provide support for experimenting and testing new technologies that use marine energy resources to generate electricity and to connect technologies for observation at increasing depths

Spain



Overview

This project consists of conducting a series of activities that range from the design, acquisition and installation to the commissioning of a **sea-to-shore electricity grid and data network** in the area of the maritime-terrestrial public domain reserved for the Ministry of Economy and Competitiveness. The management of this project has been assigned to the PLOCAN consortium (Oceanic Platform of the Canary Islands).

The electrical system is comprised of medium-voltage wiring and it will be designed, fitted and sized to carry an initial maximum of up to 15MW to shore. Most of this comprises an **underwater cable, connectors and auxiliary electrical equipment (marine electrical system)**, which will be laid from the area of the PLOCAN reserve at sea to the sectioning and protection centre located on the coast, which will allow electrical protection between the 13.2Kv sub-station and the devices connected at sea.

The main function of the electrical and communications infrastructure is to feed the electrical power generated on the test bed into the distribution network and to **transmit data in real time to be processed and analysed in an onshore control centre**.

Results

Two medium voltage cables (13.2 kV) with a capacity of 5MW, each one within the range of $\pm 1\%$ of 50Hz.

Project in figures

Total budget: €5,015,000

EU funding: €5,011,206

EU funding source:

Operational programme 2014-2020
co-funded by European Regional
Development Fund (ERDF)

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<https://www.plocan.net/index.php/en/portfolio-proyectos/1864>

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