



Type III - PT02_Aviso4_0015

ENDURE - Enabling Long-Term Deployments of Underwater Robotic Platforms in Remote Oceanic Locations

DESCRIPTION

The PT02 programme aims to achieve a good environmental status, in accordance with the Marine Strategy Framework Directive and one of the expected outputs consists in the strengthening of the capacity of mobile remote monitoring ocean through the introduction of innovative supporting platforms. Such platforms in remote ocean areas comprise various challenges, particularly as regards the availability of energy.

ENDURE aims at projecting, constructing and testing a cost-effective solution that allows for autonomous underwater vehicles (AUV) to wirelessly recharge their batteries near an underwater charging station, used in remote oceanic areas including deep-sea deployments. By avoiding complex mechanical docking, the proposed solution requires minimal maintenance being therefore cost-effective, and will enable long-term operation in remote oceanic locations. The proposed solution consists in an underwater charging station moored to the seabed and also connected to a surface platform that generates energy through renewable energy sources.

The consortium lead by INESC TEC, involves IPMA (PT), who will provide input on user requirements and specifications, Composite Solutions (PT), who will develop the surface platform and mooring system and MARLO (NO) who will provide input on the identification of potential end-users and development of exploitation business scenarios as well as dissemination and promotion of the project results.

PROJECT PROMOTER

INESC TEC - Institute for Systems and Computer Engineering, Technology and Science

PROJECT PARTNER

Portuguese Sea and Atmosphere Institute (IPMA)

DONOR PROJECT PARTNER

MARLO, AS (Norway)

TOTAL COST

256.682€

TOTAL ELIGIBLE COST

256.655€

EEA Grant

218.157€

OUTCOME

Outcome#2 - Improve monitoring of marine waters

OUTPUT

Capacity on fixed or mobile unmanned oceanic and coastal monitoring operations increased

INDICATOR

Number of energy services for supporting smart platforms for collecting and disseminating marine environment and human activities data at remote oceanic areas

TARGET

1 Service