STHYF

STABILITY OF MRE CABLES ON THE SEABED

STHYF intends to develop methods for calculating the stability of seabed cables as required by tidal turbine sites with a view to minimising installation and maintenance costs.

Several pieces of research will be undertaken during the project, namely:

- Identifying the seabed's key physical processes,
- Establishing how subsea cables currently behave and what the state-of-the-art solutions are for stabilising them,
- Defining the methods for the in situ, laboratory and numerical measuring required to observe the relevant physical processes and cable displacement at tidal turbine sites,
- Carrying out tank testing to validate numerical tools.

The results and methodologies obtained as part of the STHYF project will serve as a basis for defining a larger-scale project aimed, in particular, at in-situ measuring of cable displacement at tidal turbine sites.

Partners

Companies

EDF, Clamart
Innosea, Nantes
Naval Group, Brest
RTE France

Research centers

France Energies Marines / EDF R&D, Plouzané [Project Developer]
Ecole Nationale des Ponts et Chaussés (ENPC), Marne la vallée
Ifremer, Brest

Funders

Agence Nationale de la Recherche
Conseil régional Normandie

Labelisation

17/02/2017

Overall budget

426 K€