






LET'S GET ANSWERS TOGETHER

Join the FlatEMF study to discover the impact of subsea electricity cables on marine wildlife




PHASE ONE | Starting in May 2023

To transport electricity generated offshore to consumers on land, subsea cables are needed. These cables generate electromagnetic fields (EMFs). Anecdotal evidence suggests that EMFs can influence the behaviour of commercial flatfish, which caused the **fishing community to express their concerns**. However, the evidence for these concerns is thin and more research is needed. To address this knowledge gap and **facilitate fact-based discussions between all users of the sea**, we decided to combine forces and conduct a study on the impacts that EMFs might have on commercially important flatfish species. The study aims to achieve the following:

-  **ecology** Investigate the effects of AC cables on adult flatfish through bottom trawling
-  **technical** Develop and validate an EMF model with field measurements on AC cables
-  **communication** Disseminate knowledge for fact-based discussion

PHASE TWO | *Project partners needed*

The current project partners would like to use this study as an opportunity to examine as many important aspects of the issue as possible. Therefore, the partners invite interested parties to join the next phase of this research to **investigate different flatfish life stages, additional species, and new geographical areas**. To build our knowledge on responsible and sustainable use of the seas, next research steps would include:

-  **ecology** Effects of DC power cables and other life stages, such as larvae and juveniles
-  **technical** Additional mitigation field tests for both AC and DC power cables
-  **communication** An EMF knowledge summit

With your support, we can make phase two a reality.

FlatEMF is a joint project between 50Hertz, EirGrid, Europacable, TenneT and RGI. All project partners have agreed to invest resources and contribute expertise throughout the project.

Contact Ana Rusan (ana@renewables-grid.eu) at RGI for more information on how to get involved.



The FlatEMF study is a collaboration between:

