

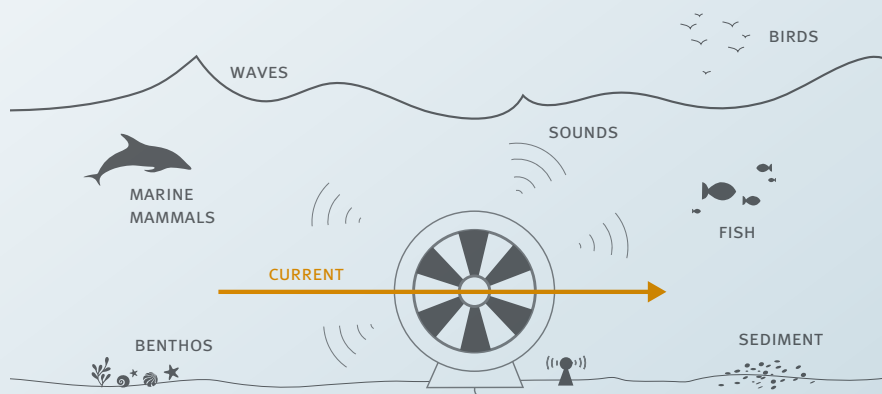


Ghydro



ENVIRONMENTAL IMPACTS METHODOLOGY GUIDE FOR MARINE TIDAL DEVICE TECHNOLOGY

GHYDRO is a methodology guide that will provide stakeholders in tidal stream energy projects with decision-making help for the environmental integration of generators and tidal farms.



The document gives an initial series of recommendations and methods to:

- describe the baseline state,
- identify and analyse potential ecological changes,
- draw up an environmental monitoring programme.

The scope of the GHYDRO project encompasses the 3 phases of a tidal current project (installation, operation and dismantling) as well as all of its marine components (turbines, converter, cable, vessels, etc.).

To bring together the broadest range of expertise, France Energies Marines has created a consortium of specialists in tidal power technologies and in the marine environment. They come

from both research institutes and companies. Amongst its members, France Energies Marines has also consulted numerous experts in the marine environment field, technology developers and users of coastal areas.

The methodology guide is widely distributed to:

- environmental authorities,
- developers of tidal current power projects,
- environmental consultancy firms,
- users in sectors concerned by future tidal stream projects.

GHYDRO will evolve through an iterative process as the various stream energy projects progress and as feedback becomes available on interactions with the marine environment.



ARCOQUEST TIDAL GENERATOR



MONITORING OF CABLE COLONIZATION AT PAIMPOL-BRÉHAT

Environmental compartments covered

- Oceanography (waves, currents)
- Seabeds
- Underwater acoustics
- Benthic ecology
- Fisheries resources
- Marine mammals
- Sea birds



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