BlueEnergy

Low head fish friendly hydropower plants in rivers

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What challenge or problem are you addressing? What is the need for the project?

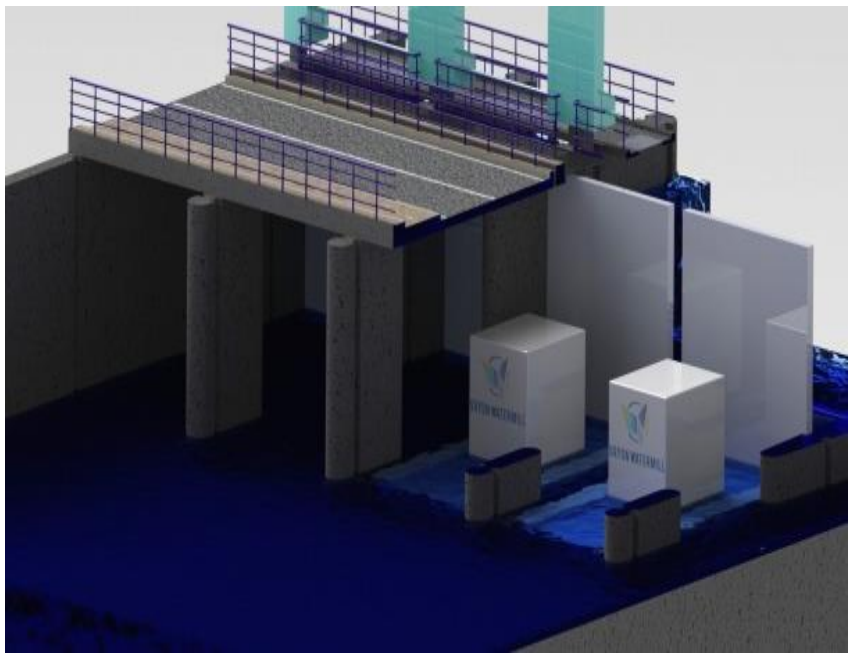
Blue Energy refers to the use of the flow of water to generate electricity. Blue Energy should be part of the national energy targets in line with the Paris Agreement. However, despite its large potentials, the uptake of Blue Energy has been limited. Locations for hydro power plants remain unexplored due to the perceived low yields associated with low head. Additionally, conventional hydro power facilities show high fish mortality rates, which has negatively impacted public opinions.

Objective of the project:

The project aims to demonstrate the cost effectiveness and efficiency of next generation cost-effective, efficient and fish friendly turbines in low head situations, and explore related technical, organizational and policy aspects.

Why do you need transnational cooperation?

Rivers are intrinsically linked, affect each other, and cross national borders. Consequently water (level) management and fish mortality (through bi-directional fish migration) is a transnational matter, as well as water level management, monitoring of environmental impact, and institutional and legislative implications. Key stakeholders will be fully engaged in order to stimulate a broad acceptance of the outcomes and dissemination of results to the constituents.



What kind or partners are you looking for?

Technical partners: turbine technologies, civil contractors
Development partners: universities, technical schools
Policy partners: Water boards, water authorities

Your contact details

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