

PROJECT PARTNERS



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HYDRO4U

Sustainable Small-Scale
Hydropower in Central Asia



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ABOUT

Hydro4U is an EU-funded project that aims at demonstrating European small-scale hydropower technologies in Central Asia. The project will employ demonstration and planning activities as a two-fold approach to elaborate, demonstrate and disseminate reproducible ecologically, economically and socio-politically sustainable hydropower solutions. The consortium will install and assess two demo hydropower plants in Central Asia together with local partners and stakeholders.

Hydro4U will offer innovative, modular and standardised hydropower solutions for both low-head and medium-head application. In addition to direct market access for the participating project partners, Hydro4U will facilitate market access for European hydropower manufacturers and service providers in Central Asia as a whole.

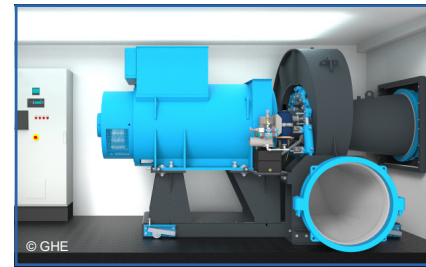
HYDRO4U IN A NUTSHELL

- Funding programme: EU Horizon 2020 research and innovation programme
- Project duration: 06/2021 – 01/2027
- Consortium: 13 partners from 8 countries
- EU contribution: 9,95 million €

TECHNICAL SOLUTIONS

Francis Container Power Solution – a standardised and modular medium head power solution

The Francis Container Power Solution corresponds to a classic medium pressure concept for the lower power range. In Hydro4U, the structural part of the plant is rigorously reduced and standardised by eliminating the traditional powerhouse and installing the turbines in a prefabricated container.



Hydroshaft Power Solution – a modular low-head run-of-river power system with fish-friendly intake

The Hydroshaft Power Solution is an innovative and sustainable concept that was developed at the Technical University of Munich. It is a low-head, run-of-river hydropower solution that combines efficient power generation with ecological consistency for the river, which will be further optimised within Hydro4U into a pre-assembled equipment-rig.