



UNLEASH MICROHYDRO POTENTIAL IN EUROPE



Co-funded by the Intelligent Energy Europe
Programme of the European Union

RESTOR HYDRO



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Renewable Energy Sources Transforming Our Regions (RESTOR) Hydro is a project is co-financed by the European Commission under the Intelligent Energy Europe programme.
The project runs from June 2012 till May 2015 and has a volume of € 2,581,853.

RESTOR Hydro is coordinated by ESHA, the European Small Hydropower Association.
The consortium brings together technical experts, dissemination networks and associations for the promotion of small hydropower from different European countries.



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Unrealized potential for **small and micro hydropower generation** exists in Europe's thousands of historic mills, water wheels, inoperative hydropower stations, weirs and other lateral structures in rivers.



Repowering abandoned sites results in the generation of hydroelectric power, both for local use and for injection to the European electrical grid.

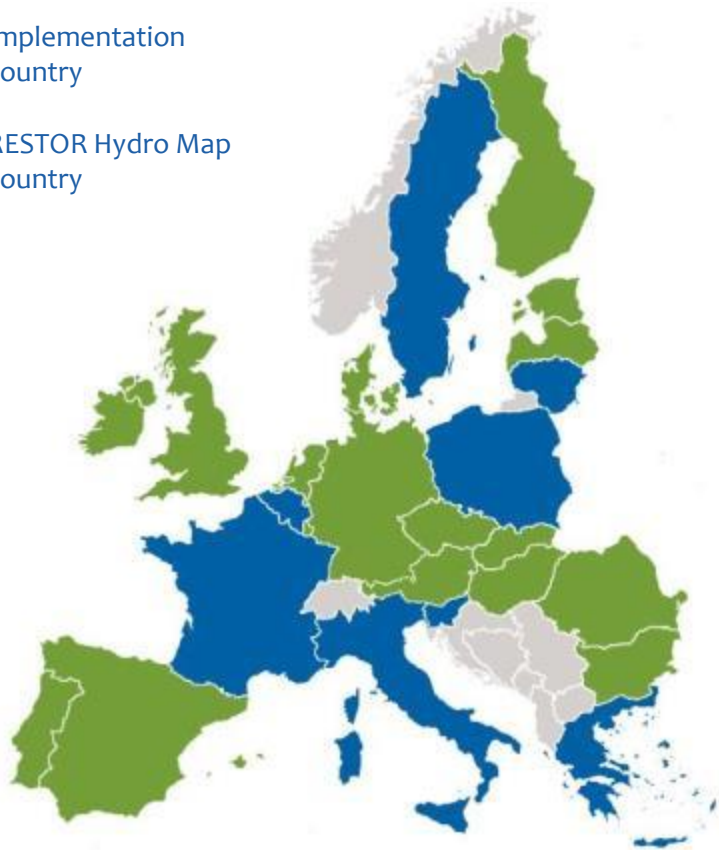
Besides enhancing energy supply security, the creation of local energy sources gives a **boost to local economies**, provides income sources and creates jobs.



The RESTOR Hydro project:

- * identifies the most relevant sites suitable for refurbishment
- * stimulates investment through the development of a market-driven model for regional cooperatives

- Implementation country
- RESTOR Hydro Map country



RESTOR Hydro aims at assessing the state of small hydropower and refurbishment potential in the whole EU-27 region.

Restoration programmes will be implemented in **eight selected target countries**: Belgium, France, Greece, Italy, Lithuania, Poland, Slovenia and Sweden.



HYDI - The European Hydro Database



RESTOR Hydro enhances the **Stream Map** project, which gathers detailed energy, market and policy data into the HYDI (Hydro Data Initiative) central database, which is free of access to the public.

The RESTOR Hydro project benefits from the information collected within the HYDI database; at the same time it contributes to the Stream Map initiative, providing detailed mapping of historic sites with high micro hydropower potential in the EU.

RESTOR Hydro Map

The RESTOR Hydro Map is a tool which provides authoritative information on the hydropower potential of historic water wheels and mills, inoperative hydropower stations, weir sites, and other lateral river structures, covering the entire EU-27 region.

The data collected is freely available to regional authorities, municipalities, local hydropower developers, researchers and any other interested members of the public.

DISCOVER EUROPE'S HYDROPOWER HERITAGE!



The database enables us to identify the **location** and outline the **characteristics** of historic sites with potential for hydropower generation, encouraging the creation of energy cooperatives and facilitating **project development**.

The total number of existing historic small and micro hydropower sites in Europe is estimated to be around 350,000. Within the RESTOR Hydro project, data is currently being collected for **50,000 sites**.

Local cooperatives

The RESTOR Hydro project develops guidelines on how to establish **small and micro hydropower cooperatives**, with a community shares ownership.

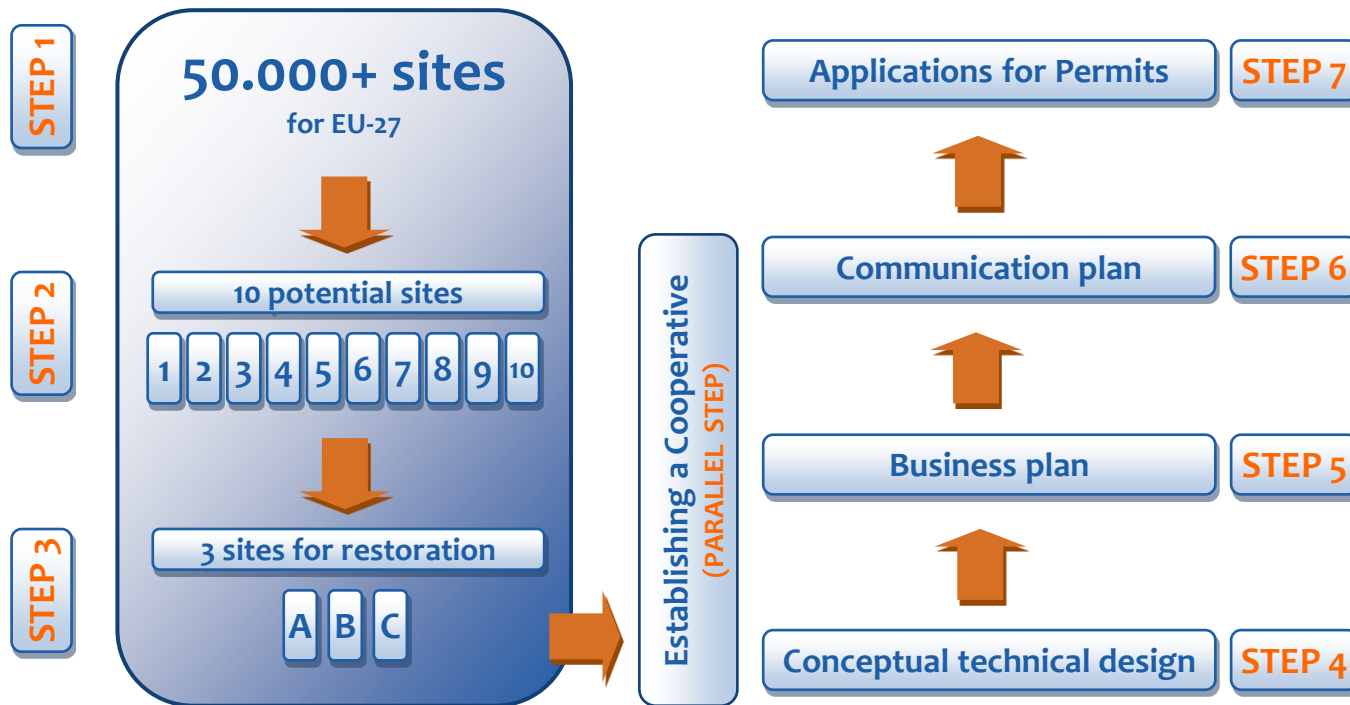
Cooperatives increase the bankability of restoration projects. One or more sites in a region can be aggregated under an umbrella organisation responsible for assessing the sites' potential and preparing a viable financial plan for their refurbishment.



Small and micro hydropower cooperatives bring new dynamism to local communities.

Community collaboration to produce decentralised energy creates economic vibrancy, increases electricity supply security and improves environmental conditions, resulting in win-win outcomes for the region.

7 step methodology for project implementation



Thank you!

Eager to participate?

Contact

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