



POWERING EUROPE IN A SUSTAINABLE WAY

The HYDROPOWER EUROPE project is built on the ambition to achieve a research and innovation agenda and a technology roadmap for the hydropower sector, based on the synthesis of technical and transparent public debates through a forum that gathers all relevant stakeholders of the hydropower sector.

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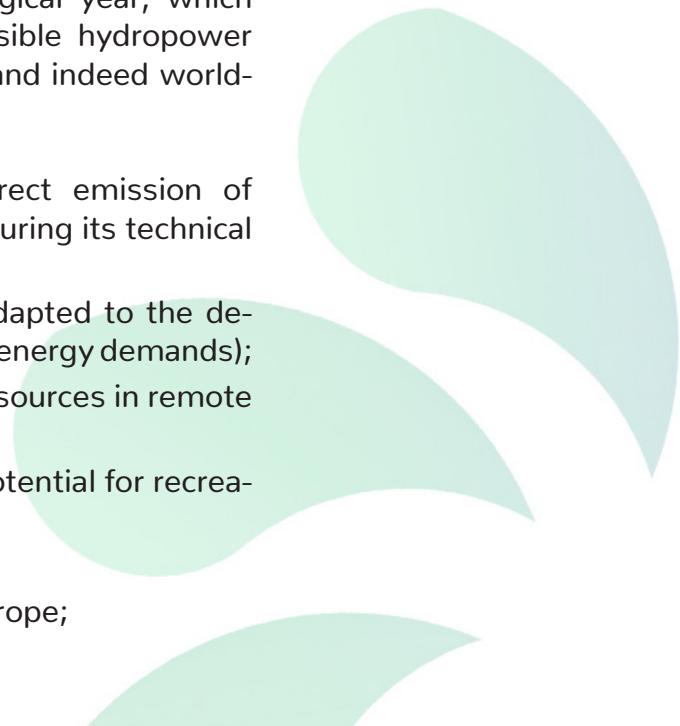
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Hydropower Energy

Hydropower has a long history in Europe and in the first half of the last century contributed significantly to industrial development and welfare in most of the countries of Europe. Today, almost 600TWh of energy are generated in an average hydrological year, which equates to about 60% of the economically feasible hydropower potential within Europe. Hydropower in Europe, and indeed worldwide, has many advantages such as providing:

- A renewable energy supply without the direct emission of CO₂ and with an unbeatable energy pay-back during its technical lifetime;
- Excellent efficiency, production can be easily adapted to the demand (very flexible and timely response to peak energy demands);
- In country energy, creating jobs and financial resources in remote areas (taxes and concession fees);
- An improvement of infrastructure along with potential for recreational and tourism activities;
- A contribution to flood and drought protection;
- Support for navigation on the large rivers in Europe;





Hydropower has all the characteristics to serve as an excellent catalyst for a successful energy transition. However, this will require a more flexible, efficient, environmentally and socially acceptable approach to increasing hydropower production to complement wind and solar energy production. In particular by:

- Increasing hydropower production through the implementation of new environmentally friendly, multipurpose hydropower schemes and by using the hidden potential in existing infrastructure.
- Increasing the flexibility of generation from existing hydropower plants and mitigation of environmental impacts.
- Increasing storage, which will have to ensure not only flexible energy supply, but also support food and water supply contributing to the Water-Energy-Food NEXUS and achievement of the Sustainable Development Goals of the United Nations.
- Strengthening the contribution of flexibility from pumped-storage power plants by developing and building innovative arrangements in combination with existing water infrastructure.



Why HYDROPOWER EUROPE?

The HYDROPOWER EUROPE initiative is built on the ambition to achieve a Research and Innovation Agenda (RIA) and a Technology Roadmap (TR) for the hydropower sector. These will be based on the synthesis of technical fora and transparent public debates through a forum that gathers all relevant stakeholders of the hydropower sector.

Through an extensive programme of review and consultation addressing the whole hydropower sector and stakeholders (including construction, production, environmental and social issues), the HYDROPOWER EUROPE Forum will provide a focal point for reviewing and developing hydropower in Europe, and subsequently European hydropower in the wider world.







Are you engaged in Europe's Hydropower?

The HYDROPOWER EUROPE Forum will gather a range of stakeholders who contribute to the hydropower sector in Europe on a range of different topics and areas, such as:

- Research and Academia;
- Electricity Generation;
- Policy Making and Public Bodies;
- Finance, Business and Insurance Sectors;
- Energy storage (technology and service providers);
- Hydro Industry and Engineering;
- Civil Society and Environment;
- Consumers;
- Equipment Manufacturers and Suppliers;
- Regulators;

Would you like to be part of our network? Find out how on www.hydropower-europe.eu



HYDROPOWER EUROPE Stakeholders



Research &
Academia



Electricity
Generation



Policy Makers
Public Bodies



Finance, Bus.
& Insurance



Energy
Storage



Hydro Industry
& Engineering



Civil Society &
Environment



Consumers



Equipment
Manufacturers



Regulators

Would you like to be involved?

To ensure that we consult with experts covering all stakeholder and topic sectors for hydropower industry, we are asking each consultee to register their contact details along with a summary of their areas of expertise through our consultation platform.

This process only takes a few minutes to complete; follow the Consultation Platform link from the project website.

Take part in **HYDROPOWER EUROPE** events!

HYDROPOWER EUROPE will organise a range of consultation events – both online and through workshops and meetings – with all stakeholders from the hydropower sector.

Find out more at: hydropower-europe.eu/upcoming-events/

Contact us:

 contact@hydropower-europe.eu

 [@euhydropower](https://twitter.com/euhydropower)

 [/company/hydropower-europe/](https://www.linkedin.com/company/hydropower-europe/)

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