



POWERING EUROPE IN A SUSTAINABLE WAY

HYDROPOWER EUROPE – REGIONAL CONSULTATION WORKSHOPS

The **Energy Union Strategy** proposes a fundamental transformation of Europe's energy system with the ambition to achieve a low-carbon climate-resilient future in a cost-effective way. One of the best energy contributors towards a low-carbon climate-resilient future is hydropower.

The **Integrated Strategic Energy Technology (SET) plan** draws up the framework for moving to more sustainable, secure and competitive energy sources. Hydropower is a very flexible energy supply which can also be used to secure the new energy system by storing and supplying electricity generated by other sources, so providing an essential link for aiding the integration of different renewable supplies within the grid. A comprehensive roadmap is now needed for the sustainable use of existing hydropower and the development of the untapped hydropower potential under environmental and socio-economical constraints.

Hence, the HYDROPOWER EUROPE initiative (www.hydropower-europe.eu) is built on the ambition to achieve a **Research and Innovation Agenda** and a **Strategic Industry Roadmap** for the hydropower sector, based on the synthesis of technical fora and transparent public debates through a forum that gathers all relevant stakeholders of the hydropower sector. This wide-ranging consultation process will be initiated through the HYDROPOWER EUROPE consultation platform (<http://consultation.hydropower-europe.eu>) and via **regional workshops**, integrating feedback from online consultation, workshops and expert working groups.



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 The HYDROPOWER EUROPE Forum is supported by a project that has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 826010

Participation in the Regional Workshops is free of charge.
For more information and to register:
www.hydropower-europe.eu



Three Regional Workshops:

Consultation workshops will take place in 3 different climatic regions to gather both general feedback and address specific regional issues (for example: political, social, funding and environmental aspects).

- **Nordic Region: Luleå (Luleå University of Technology), Sweden - 28 - 29th Aug 2019**
- **Alpine Region: Lausanne (EPFL), Switzerland - 11 - 12th September 2019**
- **Mediterranean Region: Chania (Cultural Center), Greece - 30th Sept – 1st Oct 2019**

Each workshop will comprise a 1.5-day event and will offer the opportunity to discuss hydropower regional issues with regional high-level officials and stakeholders from the hydropower sector. The broad programme will comprise:

- **Day 1:** Half-day - HYDROPOWER EUROPE introduction; presentation and discussion of key regional issues;
- **Day 2:** Half-day – Introduction to the Research and Innovation Agenda followed by topic group discussion and feedback (see details over)
- **Day 2:** Half-day – Introduction to the Strategic Industry Roadmap followed by topic group discussion and feedback (see details over)

The HYDROPOWER EUROPE Regional Workshops are supported by:



ΠΕΡΙΦΕΡΕΙΑ ΚΡΗΤΗΣ
REGION OF CRETE
ΠΕΡΙΦΕΡΕΙΑΚΗ ΕΝΟΤΗΤΑ ΧΑΝΙΩΝ

Region of Crete –
Regional Section
of Chania



Ecole Polytechnique
Fédérale de Lausanne
(EPFL)



Luleå
UNIVERSITY
OF TECHNOLOGY

Luleå University of
Technology

Topic Group Discussion:

A key aspect of the workshops will be discussion and feedback around specific issues related to hydropower. Participants will be able to choose and divide into groups to undertake discussion and a SWOT analysis based around the statements below.

Addressing research and innovation agenda issues (morning group discussion):

- The increase of storage by new reservoirs or increasing the volume of existing reservoirs is urgently needed to improve the safety and flexibility of the new energy system in Europe.
- Projects of new pumped storage plants have to be urgently started to ensure the safety and flexibility of the new energy system in the next decade.
- The upgrading (increase of installed capacity and efficiency, modernization) of existing hydropower plants and the optimization of their operation (automation, digitalisation and forecast systems) is urgently needed to ensure the reliability and safety of the energy system in Europe to support the energy transition.
- Small hydropower has a significant potential to increase hydro generation in Europe in an environmentally friendly way.
- The performance and resilience of hydropower infrastructures and the generation can be threatened in the future by climate change hazards and ageing.
- Hydro marine energy solutions can contribute to a significant increase in hydropower generation in the future.

- Innovative design (supported by research and development and wide stakeholder consultation in early design phases) in combination with multipurpose schemes can lead to environmentally friendly solutions and wider social acceptance of hydro.
- Hydropower plants and reservoirs will play an important role in the mitigation of the effects of global warming and will contribute towards achieving NEXUS and the SDGs

Addressing strategic industry roadmap issues (afternoon group discussion):

- Hydropower is a mature technology but still has considerable potential for development and research is still needed.
- Hydropower can overcome barriers to large scale deployment required by the energy transition
- Hydropower is one of the most sustainable energy source amongst renewables and has the ability to provide other services for civil society such as flood protection, navigation, water supply, irrigation and recreation.
- Environmentally friendly hydropower solutions could provide a stronger future business case for hydro (Eco-labels, certification,..).
- In a fully liberalised and undistorted market, hydropower is one of the cheapest renewable energy sources which maintains its investment value in the longer term (more than 100 years).

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