



POWERING EUROPE IN A
SUSTAINABLE WAY

HYDROPOWER EUROPE Nordic Workshop

28 – 29 August 2019

**Lulea University of Technology
Lulea - Sweden**



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.

Agenda

28 August 2019

12:30 – 13:00 **Registrations**

Opening Remarks

13:00 – 13:05 **Staffan Lundström**, Professor, Lulea University of Technology

HYDROPOWER EUROPE: Powering Europe in a Sustainable Way

13:05 – 13:20 *Presentation of the Project*

Jean-Jacques Fry, President European Club (EURCOLD), International Commission on Large Dams

How to Build the Research & Innovation Agenda and Strategic Industry Roadmap for the Hydropower Sector

13:20 – 13:35 *Presentation of the Consultation Process*

Patrick Clerens, Secretary General, EASE – The European Association for Storage of Energy

A Policy Framework that Fosters Research and Innovation for Hydropower in Europe

13:35 – 13:50

Thomas Schleker, Project Officer, Directorate-General for Research and Innovation, European Commission (*web-streaming*)

Views of Swedish high-level officials

Towards a renewable energy system – a Swedish perspective on hydropower and dams

13:50 – 14:20 **Maria Bartsch**, Dam Safety Officer, Svenska Kraftnät

New Legislation and Strategic Plan for Environmental Measures in Hydropower

Johan Kling, Senior Strategist, Swedish Agency for Marine and Water Management

14:20 – 14:40 **Q&A**

14:40 – 15:00 **Coffee Break**

Perspectives and Case Studies for Hydropower: Regional Outlook in Nordic Countries

15:00 – 15:50

Moderator: Staffan Lundström, Professor, Lulea University of Technology

Benefits and Challenges for Nordic Hydropower in a European Perspective

Fredrik Engström, Director Business Control and Asset Management, Vattenfall Vattenkraft

Mappings, Policy and Strategy: the Role of Hydro for the Future

Hege Brende, Executive Director, HydroCen, Norwegian Research Centre for Hydropower Technology

What is next for hydropower in the Baltic States?

Egidijus Kasiulis, Head of Laboratory of Aquatic Ecosystems, Vytautas Magnus University

15:50 – 16:10 **Q&A**

16:10 – 16:40 **Coffee Break**

Perspectives and Case Studies for Hydropower: Regional Outlook in Nordic Countries

Moderator: Staffan Lundström, Professor, Lulea University of Technology

Data driven planning of effective environmental measures – CASE VUOKSI

16:40 – 17:30 **Heini Auvinen**, Environmental Expert, Fortum

Hydropower in Poland – looking forward for a new stimulus

Janusz Steller, President, Polish Hydropower Association

Norwegian Large Hydropower Contributing To European Targets

Jan Petter Haugli, Vice-President for Electro & Mechanical Disciplines, Statkraft

17:30 – 17:50 **Q&A**

Closing Remarks

17:50 – 18:00 **Jean-Jacques Fry**, President European Club (EURCOLD), International Commission on Large Dams

18:00 – 19:30 **Laboratory visit and social drink**

29 August 2019

8:30 – 9:00 **Registrations**

Opening Remarks

9:00 – 9:05 **Patrick Clerens**, Secretary General, EASE – The European Association for Storage of Energy

Structure and Elements of the Research and Innovation Agenda

9:05 – 9:20 **Mathis Rogner**, Senior Analyst, IHA – International Hydropower Association

9:20 – 9:30 **Q&A**

Debating the Research and Innovation Agenda

Participants, divided into focus groups, will have the possibility to discuss strengths, weaknesses, opportunities and threats around specific issues that the Hydropower sector has to face in Europe.

The discussion will be focused on several statements covering the following topics:

- 9:30 – 10:30
- The challenge of increasing storage in existing or with new reservoirs
 - Pumped hydro storage: a tool to enable security and flexibility of the energy system
 - Upgrading existing hydropower plants: technical challenges and opportunities
 - Possible contribution of small hydropower and hydro marine energy solutions
 - Role of hydropower in mitigation of global warming effects considering performance and resilience
 - Innovative design, multi-purpose projects and social acceptance

10:30 – 11:00 **Coffee Break**

Presentation of Focus Group Results

Moderator: **Patrick Clerens**, Secretary General, EASE – The European Association for Storage of Energy

11:00 – 12:00 One representative for each focus group will present the outcome of the discussion and the key needs for the development of a Research and Innovation Agenda for Hydropower.

The presentations will be followed by Q&A.

12:00 – 13:00 **Lunch**

Opening Statement

13.00 – 13.05 **Mario Bacchiesl**, Head of Renewables and Distributed Generation, VGB PowerTech E.V

Structure and Elements of the Strategic Industry Roadmap

13:05 – 13:20 **Jean-Jacques Fry**, President European Club (EURCOLD), International Commission on Large Dams

13:20 – 13:30 **Q&A**

Debating the Strategic Industry Roadmap

Participants, divided into focus groups, will have the possibility to discuss strengths, weaknesses, opportunities and threats that the Hydropower sector has to face in Europe.

The discussion will be focused on several statements covering the following topics:

13:30 – 14:30

- Potential development and research needs
- Challenge of hydropower large scale deployment
- Sustainability and auxiliary services: flood protection, navigation, water supply, irrigation...
- Environmentally friendly solutions: a future business case for hydro?
- Hydropower: a safe long-term investment with high economic return under liberalized and undistorted market conditions

14:30 – 15:00 **Coffee Break**

Presentation of Focus Group Results

Moderator: Mario Bacchiesl, Head of Renewables and Distributed Generation, VGB PowerTech E.V

15:00 – 16:00 One representative for each focus group will present the outcome of the discussion and the key needs for the development of a Strategic Industry Roadmap for Hydropower.

The presentations will be followed by Q&A.

Closing Remarks

16:00 – 16:10 **Jean-Jacques Fry**, President European Club (EURCOLD), International Commission on Large Dams