

Welcome and introduction to ETIP HYDROPOWER

Anton SCHLEISS

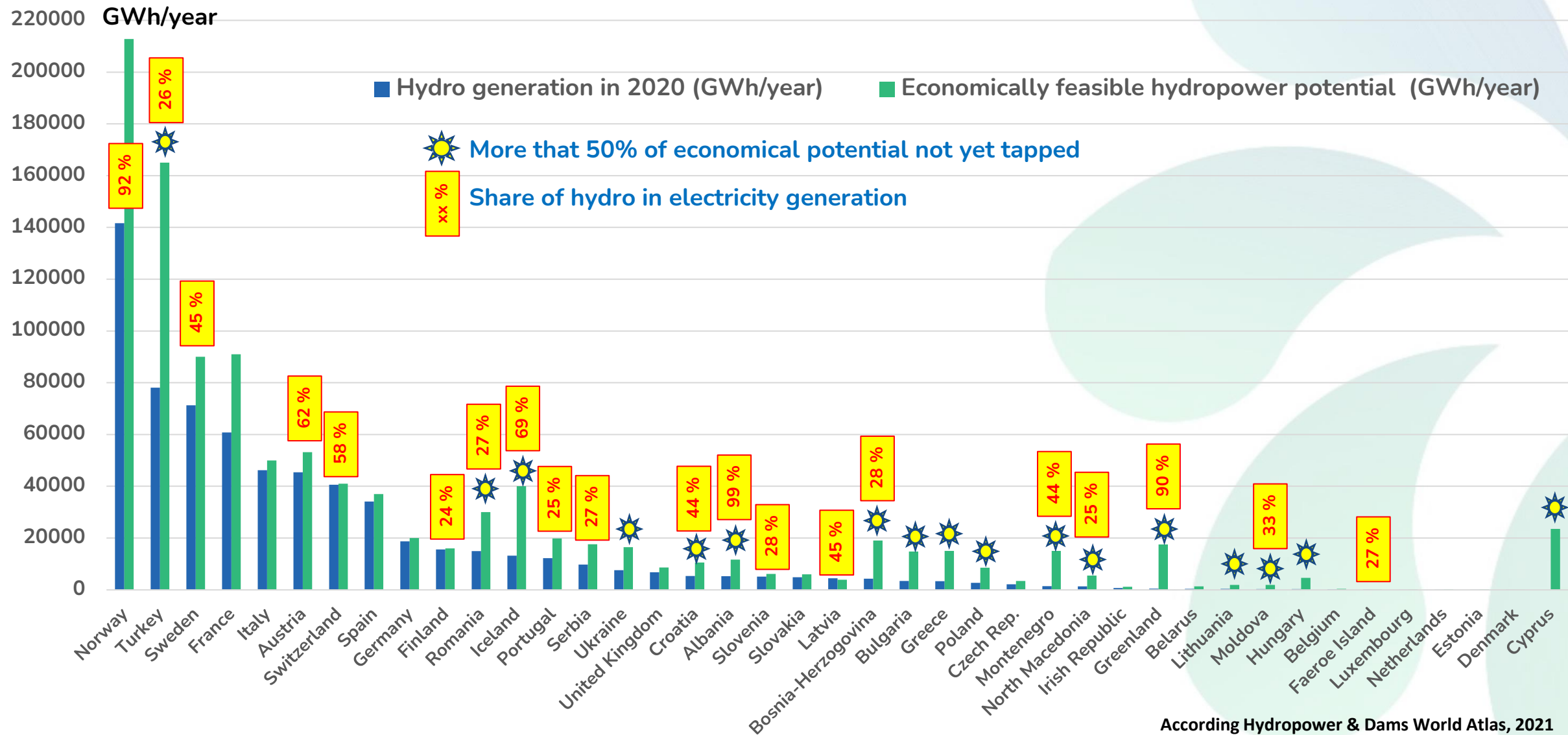
Scientific Coordinator ETIP HYDROPOWER

ICOLD-EPFL

Energy crises and role of hydropower

- The energy crisis after the start of the war in Ukraine revealed **the important and vital role of hydropower in Europe to ensure a safe and supply of electricity**
- **Storage and pumped-storage hydropower will be the most vital to avoid blackouts** in Europe the next severe and critical winters with “Dunkelflaute” in case of gas supply problems
- There is a **renaissance of hydropower in Europe: 9000 MW to 12000 MW** are under planning
- The recent blackout event in Spain and Portugal revealed **the importance of hydropower for grid stabilization and restauration with black start**

Generation and Potential of Hydropower in Europe



Situation of Hydropower in Europe

Installed capacity in MW under construction since 2005 without Turkey



According Hydropower & Dams World Atlas 2024

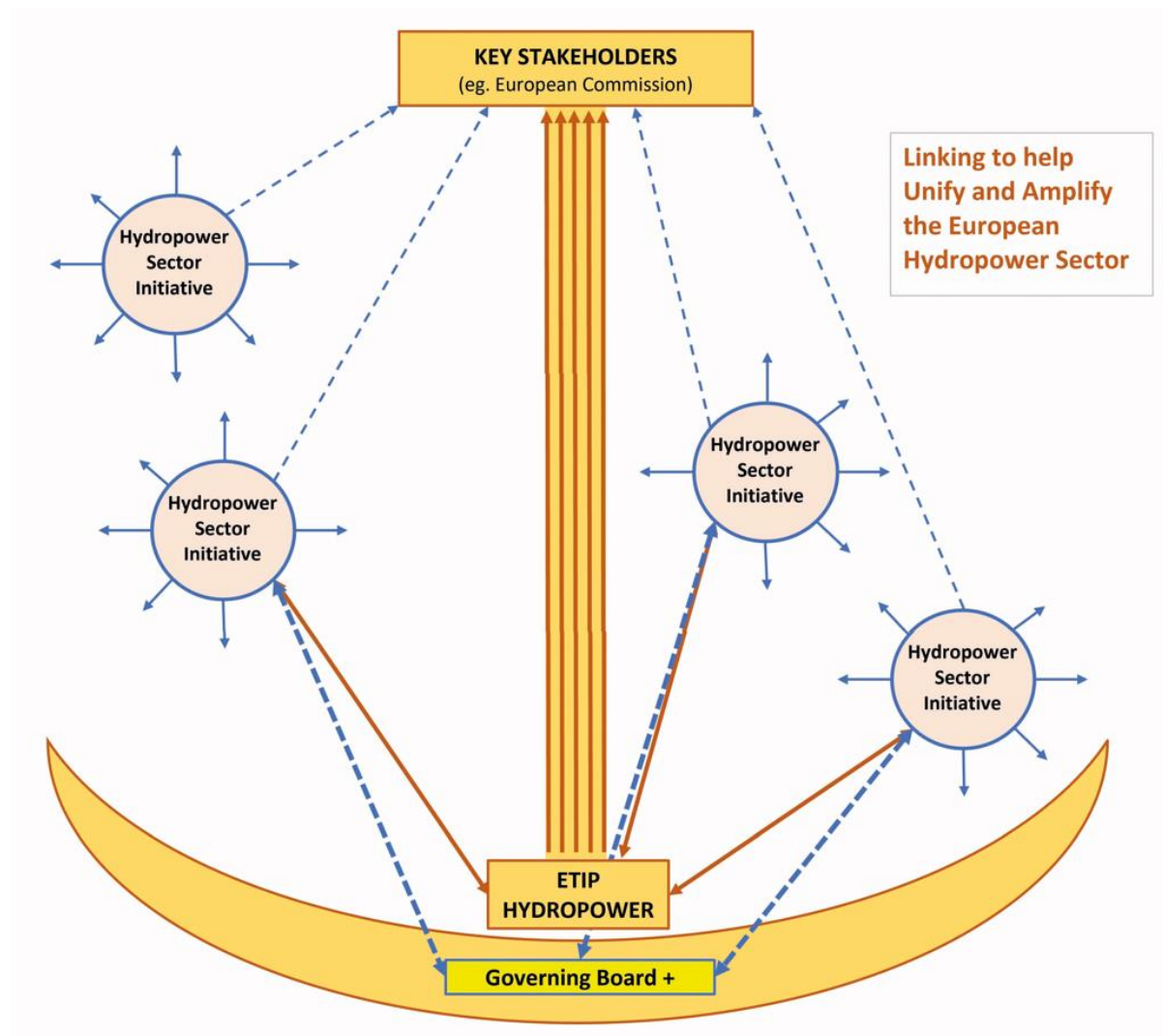
Objectives of ETIP HYDROPOWER

- ETIP HYDROPOWER Consortium – **Horizon Europe project 2022-2025** (Grant Agreement No. 101075620) providing secretariat to the newly established ETIP-Hydropower
- **Project partners:**



- ETIP HYDROPOWER will enhance and disseminate the RIA and SIR **taking into consideration the future needs of the sector and the R&I targets and the emerging policy priorities.**
- ETIP HYDROPOWER will **consolidate the strong network of the HYDROPOWER EUROPE Forum into a sustainable organization** which helps to unify the voices of hydropower in Europe

The intended role is to help unify & amplify...



A key role for the ETIP HYDROPOWER is to help **unify** the hydropower sector in Europe, presenting a **single voice on key issues**.

This function does not duplicate the role of existing groups and associations – it **enhances**.

We are working with the **Hydropower Alliance** to confirm complementary roles.

ETIP HYDROPOWER under action

- An operational structure in place – **the Secretariat**
- An **industry-driven Governance** in place, with all stakeholder sectors
- A widely-open **Scientific Advisory Board**: 26 members

Chairperson:

- **Denis Aelbrecht** - Electricite de France (EDF) - Hydro Engineering Center (France)

Co-chairs:

- **Antonella Frigerio** - Ricerca sul Sistema Energetico - RSE S.p.A. (Italy)
- **Peter Stettner** - Andritz Hydro GmbH (Austria)

- Practical products: **HERI platform**



ETIP HYDROPOWER under action

Working Groups

Four working groups are active since early summer 2024:

1. **Hydropower role for flexibility & storage**
2. **Hydropower and biodiversity**
3. **Hydropower and climate change**
4. **Promotion, dissemination and uptake of past and current European R&I projects**

First expected results:

White papers will be published in summer 2025



ETIP HYDROPOWER Working Group one focuses on hydropower's role in providing grid flexibility and energy storage.

WG-A: Overview on past and current European R&I projects for hydropower

Follow up and Results Dissemination

- **Follow-up the Horizon projects** related to hydropower
- Inform regularly with a **newsletter on the progress of these projects**
- Motivate and facilitate the **organization of Special sessions at conferences with hydropower as a topic on the outcomes of these projects**. A first session moderated by ETIP HYDROPOWER could be during HYDRO 2025 in Thessaloniki in Greece.
- **Create a discussion forum among these projects with short webinars** (21.5.24 / 18.9.24 / 6.12.24 / 26.02.2025, 14.5.25,)

ETIP Secretariat: ICOLD
Confirmed Members: ~20

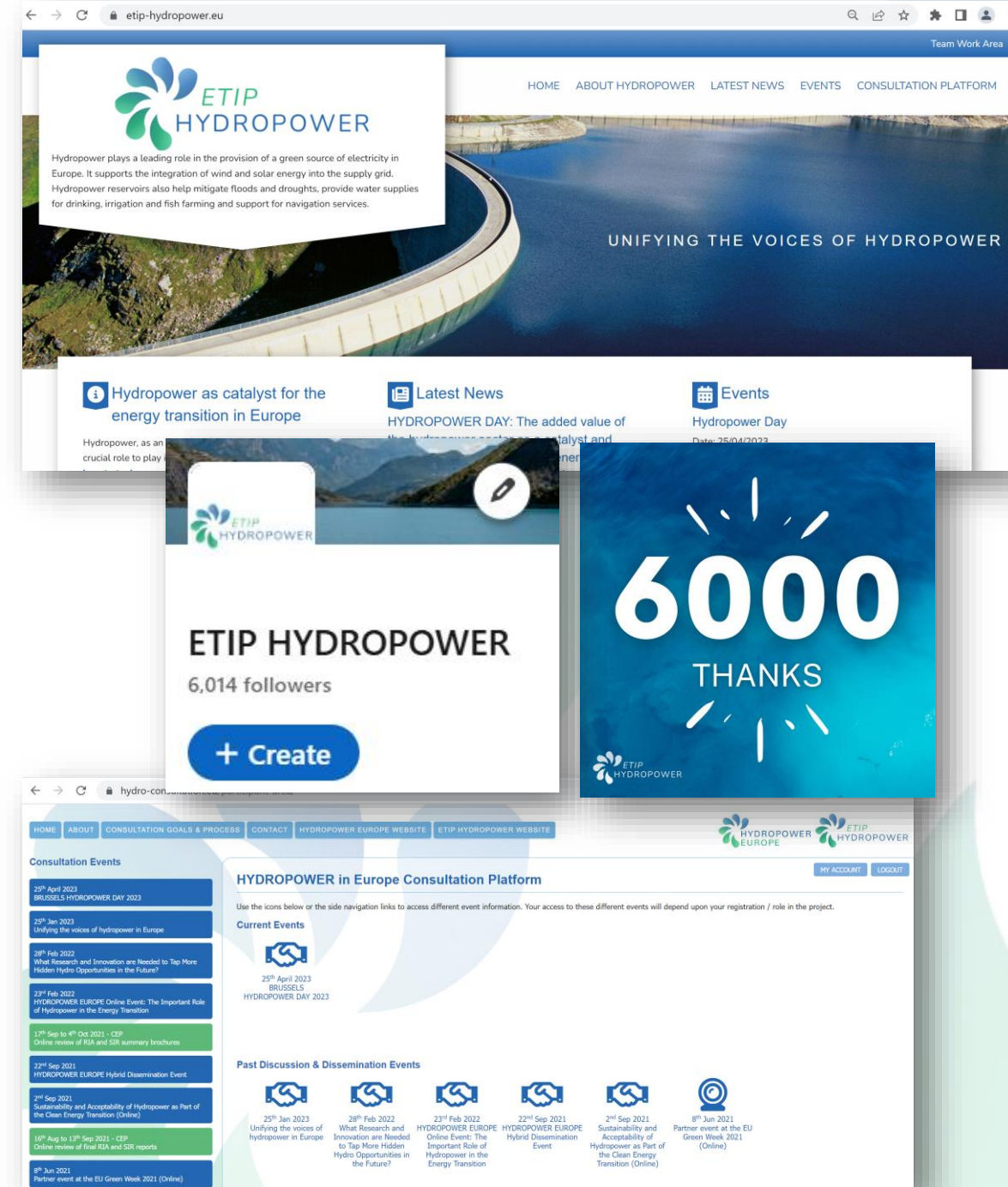
WG-A

Chair:	Emanuele Quaranta, JRC, Italy
Co Chairs:	Stevcho Mitovski, University Ss C&M, Macedonia Llias Zafeiropoulos, Ubitech Energy, Belgium

In conclusion

A reminder that:

- We provide information via our website at www.etip-hydropower.eu
- We have active social media accounts: **LinkedIn, X and YouTube**
- We undertake consultation and communication events via our consultation platform at <https://hydro-consultation.eu>
 - ✓ Currently >1000 consultees registered



BRUSSELS HYDROPOWER DAY

8 APRIL 2025 | Le Bouche à Oreille

Contribution of hydropower flexibility and storage in the safe energy transition in partnership with environment under climate change

ORGANIZED BY



**You can find the
presentations on our
consultation platform**