



Workshop “Revamping Hydropower Research”

Jointly organized by EERA Joint Programmes Digitalization for Energy, e3s and Hydropower

AGENDA

Date: 24 September 2024

Time: 9:00 – 16:30

Location: [ULB - Maison des Anciens - Campus La Plaine, Avenue R. Lallemand 22, Bruxelles.](#)

TUESDAY 24 SEPTEMBER 2024

8:30 – 9:00	Registration	
9:00 – 9:10	Welcome and Introduction	Michael Belsnes EERA JP Hydropower and e3s Sub-Programme coordinator, <i>SINTEF Energy Research</i>
Opening speeches		
9:10 – 9:25	Setting the scene: the political context for boosting research competitiveness	Adel El Gammal Secretary General, <i>EERA</i>
9:25 – 9:35	Addressing the non-technical challenges of hydropower deployment: a SSH perspective	Alessandro Sciuolo EERA JP e3s coordinator, <i>University of Torino</i>
9:35 – 9:45	tbd	Line Sundt Hansen
9:45 – 12:00	1st session – The role of hydropower in the CET (part 1)	
9:45 – 10:00	Introduction by Alessandro Sciuolo EERA JP e3s coordinator, <i>University of Torino</i>	
10:00 – 10:15	The role of hydropower on energy market: a comparative study in five EU countries	Marina Čerpinska <i>Riga Technical University</i>
10:15 – 10:30	Conceptual Framework for the Analysis of Socio-economic Benefits of Hydropower in EU	Irēna Vaivode <i>Riga Technical University</i>
Coffee Break (30')		
11:00 – 11:15	Preliminary considerations on the role of hydropower in enhancing energy justice in the European Union and Türkiye	Azime Telli <i>Mersin University</i>
11:15 – 11:30	Renewable Energy in the Western Balkans and EU Policy: Pathway to Regional Net-Zero	Milena Rajic <i>University of Niš</i>
11:30 – 12:00	Panel discussion	Moderated by: Alessandro Sciuolo EERA JP e3s coordinator, <i>University of Torino</i>



		<p>& Ayşen Sivrikaya Professor, Hacettepe University</p>
Lunch break (60')		
13:10 - 15:00	2nd session - The role of hydropower in the CET (part 2)	
13.10 - 13.20	Introduction by Ole Gunnar Dahlhaug EERA JP Hydropower coordinator, <i>NTNU</i>	
13:20 - 13:35	Mapping and evaluating potential Italian traditional and Seawater Pumped Hydro Storage Plants: siltation impact and new GIS approaches	Julio Alterach <i>RSE S.p.A.</i>
13:35 - 13:50	On the potential role of flexible Norwegian hydropower in managing challenging renewable energy variability events in Europe	Anders Arvesen <i>SINTEF Energy</i>
13.50 - 14.05	Need for hydro storage due to the challenges arising from expansion of PV electricity generation	Marija Lazarevikj <i>Ss. Cyril and Methodius University of Skopje</i>
14:05 - 14:25	Panel discussion	Moderated by: Ole Gunnar Dahlhaug EERA JP Hydropower coordinator, <i>NTNU</i> & Elena Vagnoni EERA JP Hydropower vice-coordinator, <i>EPFL</i>
Coffee Break (15')		
14:40 - 16:20	3rd session - LCA, biodiversity and public acceptance of hydropower - Digitalisation for unlocking the hydropower potential and the CET	
14:40 - 14:55	Introduction by Eduard Doujak EERA JP Hydropower and Digitalization for Energy - Sub-Programme coordinator, <i>TU Wien</i>	
14:55 - 15:10	Unlocking Hydropower's Potential: Retrofitting Infrastructure and Harnessing Unconventional Sources for Clean Energy Transitions	Marco van Dijk <i>University of Pretoria</i>
15:10 - 15:25	Digital Twin for Vibration Monitoring of Pelton Units	Martin Boden <i>Alpiq AG</i>
15:25 - 15:40	Advancing Sustainable Hydropower Through Digitalization and Innovation: Insights from the Pan-European Network	Dogan Gezer <i>TÜBİTAK</i>
15:40 - 15:55	Methods to prevent or mitigate total dissolved gas supersaturation in the waterways downstream hydropower plants	Wolf Ludwig Kuhn <i>Norwegian Institute for Nature Research</i>
15:55 - 16:20	Panel discussion	Moderated by: Eduard Doujak EERA JP Hydropower and Digitalization for Energy - Sub-Programme coordinator, <i>TU Wien</i> & Michael Belsnes



		EERA JP Hydropower and e3s Sub-Programme coordinator, <i>SINTEF Energy Research</i>
Concluding remarks		
16:20 - 16:30	Concluding remarks and wrap up	Michael Belsnes Research Scientist, <i>SINTEF Energy Research</i>