

OPENING REMARKS

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CHAIR GOVERNING BOARD ETIP HYDROPOWER



Funded by the European Union

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Chair of ETIP HYDROPOWER Gov. Board Head of Technology EDF Hydro Engineering Center (France)

<u>Co-chairs</u> :

<u>Antonella FRIGERIO</u> – RSE (Italy) <u>Peter STETTNER</u> – ANDRITZ-Hydro (Austria)



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- Support from the European Commission is essential
- Coordination with our strategic partners is essential, beyond those already involved in the ETIP : European Hydropower Alliance, EURELECTRIC, other ETIP's, ...
- ETIP HYDROPOWER : now one key component of the Hydropower sector to help strengthen the Hydropower Technology pillar of the European electric system



ETIP HYDROPOWER under action

- An operational structure in place the Secretariat
- An industry-driven **Governance** in place, with all stakeholders sectors
- A widely-open Scientific Advisory Board
- 3 prioritized Working Groups are launched and aligned on EC priorities :
 - Flexibility and Storage issues
 - Biodiversity and E&S issues
 - Climate Change : Risks and Opportunities
- 1 cross-sectoral Working Group : overview of R&I projects
- Practical products are coming : <u>HERI platform</u>





Hydropower Day 2024 : focus on Flexibility and Storage, for the security and stability of a clean electric system

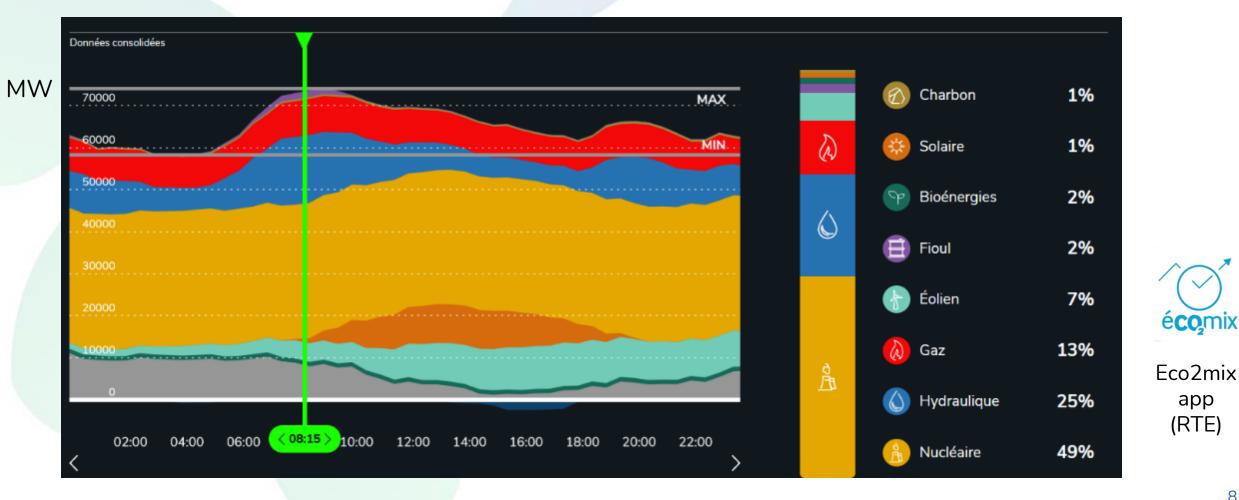
Need to explain to decision-makers & stakeholders what does flexibility mean

- Securing Frequency and Voltage regulation at short time-scale from ms to few seconds
- Ensuring Generation Demand balance at each time horizon from min. to seasons / decades





- One day on the French TSO system : Monday APRIL 4, 2022
 - Daily generation mix evolution managing variability and flexibility

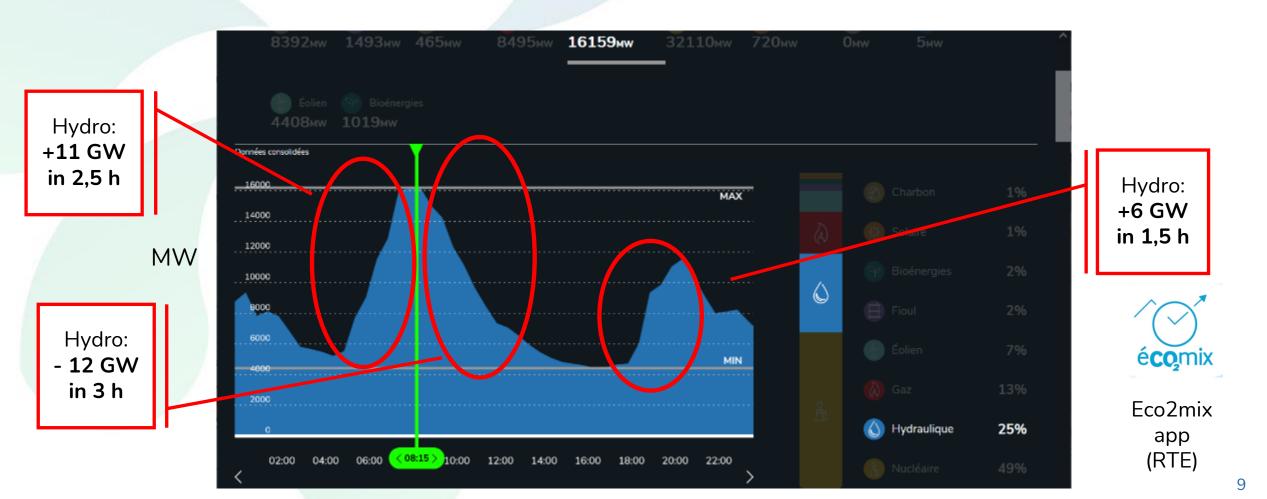


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app (RTE)



- One day on the French TSO system : Monday APRIL 4, 2022
 - FOCUS : Hydro generation flexibility value : + or ramping rate 5 GW / hour





To get <u>clean</u> and <u>safe energy</u>

we will need more and more

Flexible power and Storage



THANK YOU!

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