

THE PERSPECTIVE OF ENERGY STORAGE IN THE ENERGY COMMUNITY CONTRACTING PARTIES

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IENE Online Webinar

The Role of Energy Storage in Advancing Large Scale RES Penetration

27th April 2021

THE ENERGY COMMUNITY

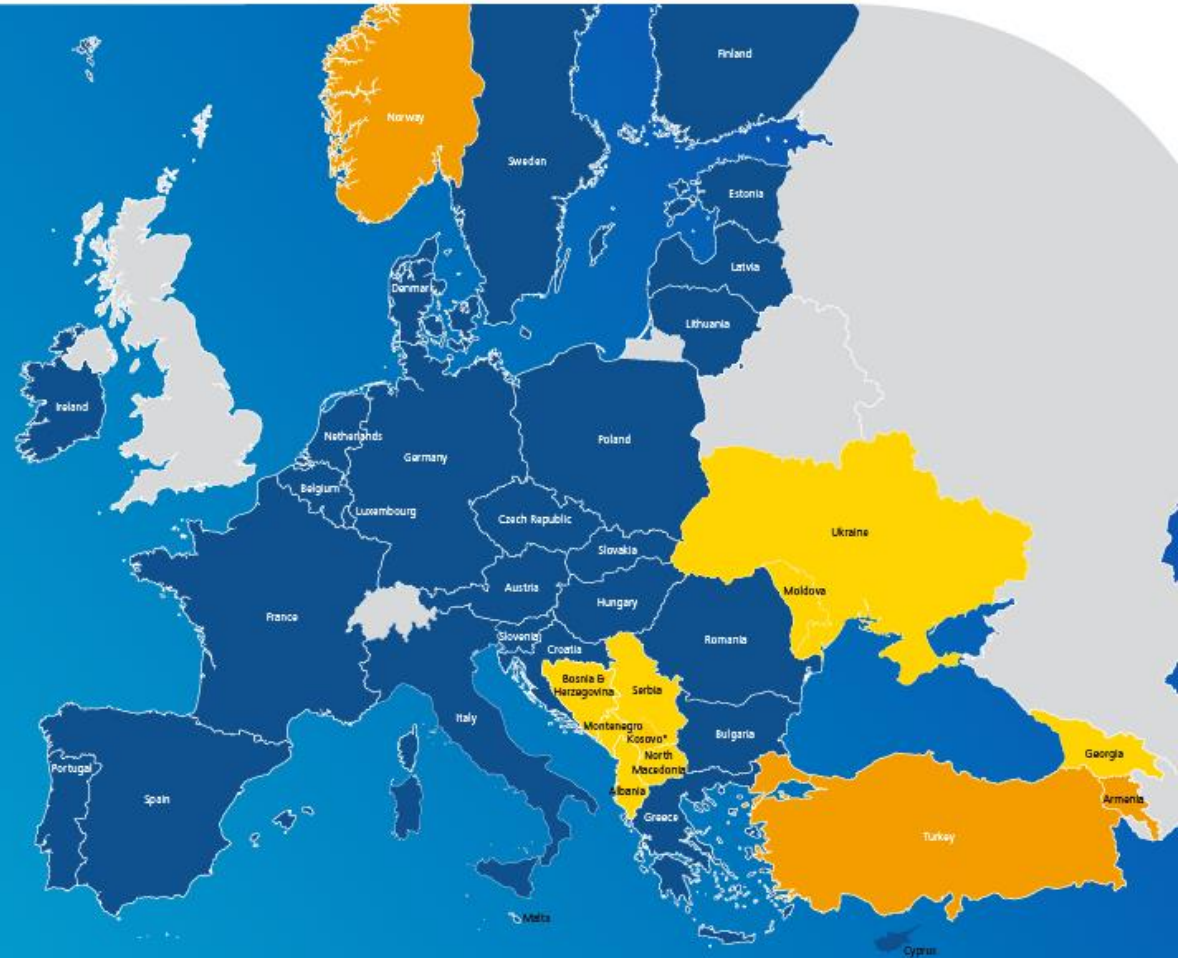
- International organization established in 2005 by the Treaty establishing the Energy Community;
- Extends the EU internal energy market to South East Europe and beyond to create a sustainable pan-European Energy Market;
- Instrument to assist countries in the EU's neighbourhood to reform their energy markets in line with EU law and principles;

GOALS

- Establish a stable regulatory and market framework capable of attracting investment in power generation and networks;
- Create an integrated energy market allowing for cross-border energy trade and integration with the EU market;
- Enhance the security of supply to ensure stable and continuous energy supply that is essential for economic development and social stability;
- Improve the environmental situation in relation with energy supply in the region and foster the use of renewable energy and energy efficiency;
- Develop competition at regional level and exploit economies of scale

OUR MEMBERS

- Contracting Parties
- European Union
- Observers



MAIN AREAS OF WORK

Statistics



Electricity



Renewable energy



Value added tax



Competition/
state aid



Environment



Cyber security



Regulator



Gas



Climate



Energy efficiency



Oil



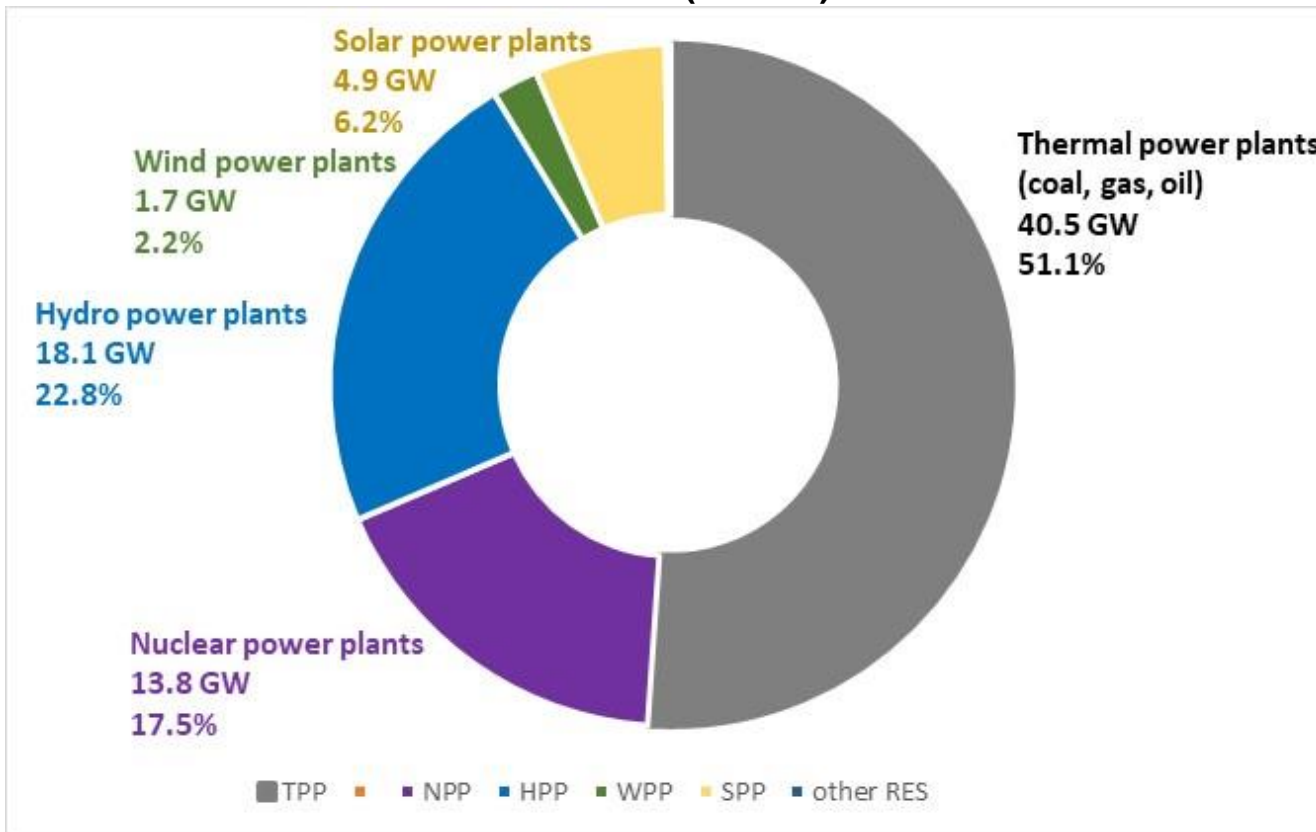
Security of energy supply



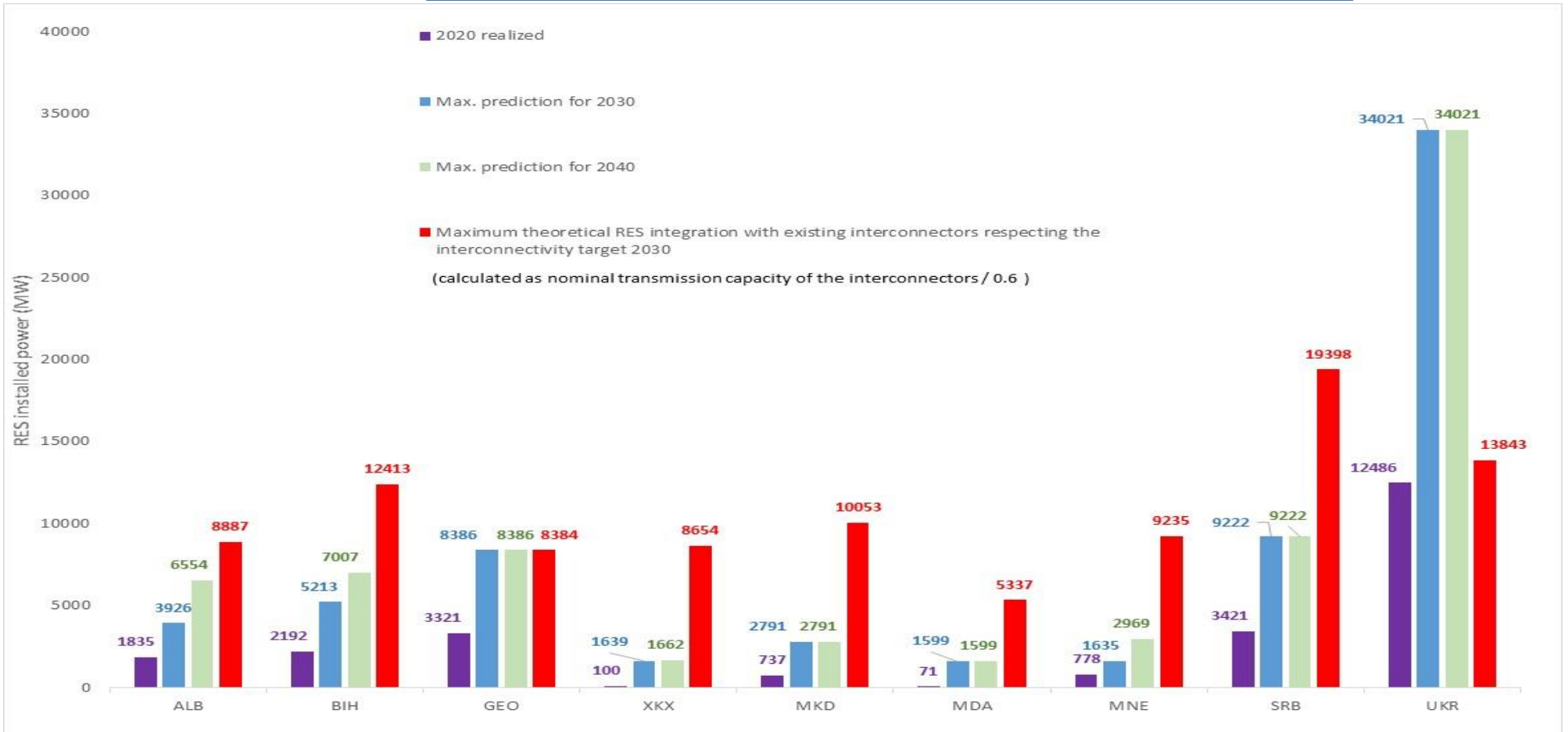
General services



INSTALLED GENERATION CAPACITY (all CPs)

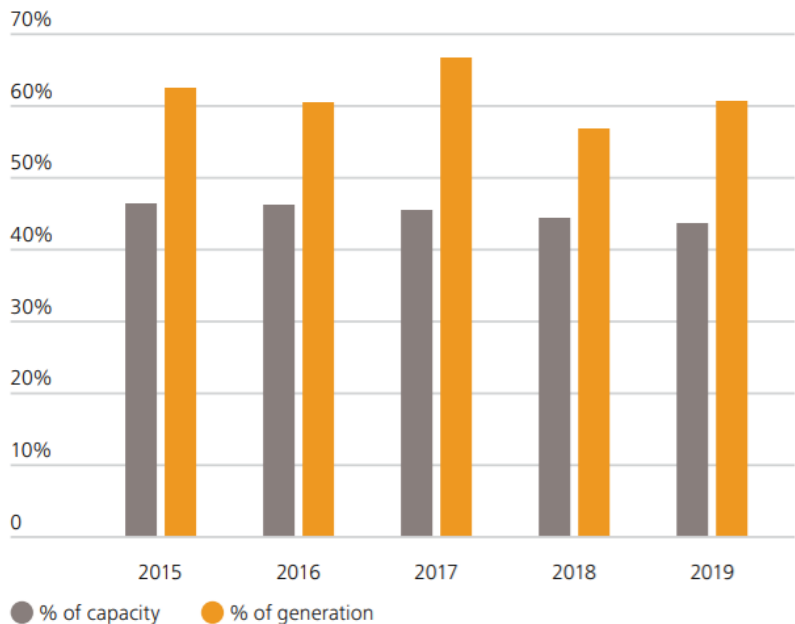


RENEWABLE ENERGY SOURCES IN THE EnC CPs



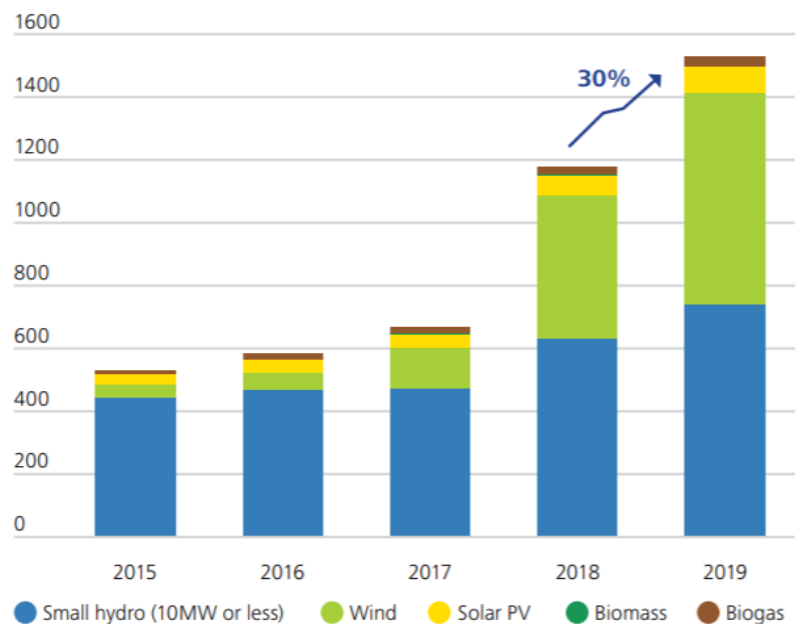
GENERATION MIX (WB6 COUNTRIES)

Share of coal-based capacity/production in total WB6 capacity/production (%)



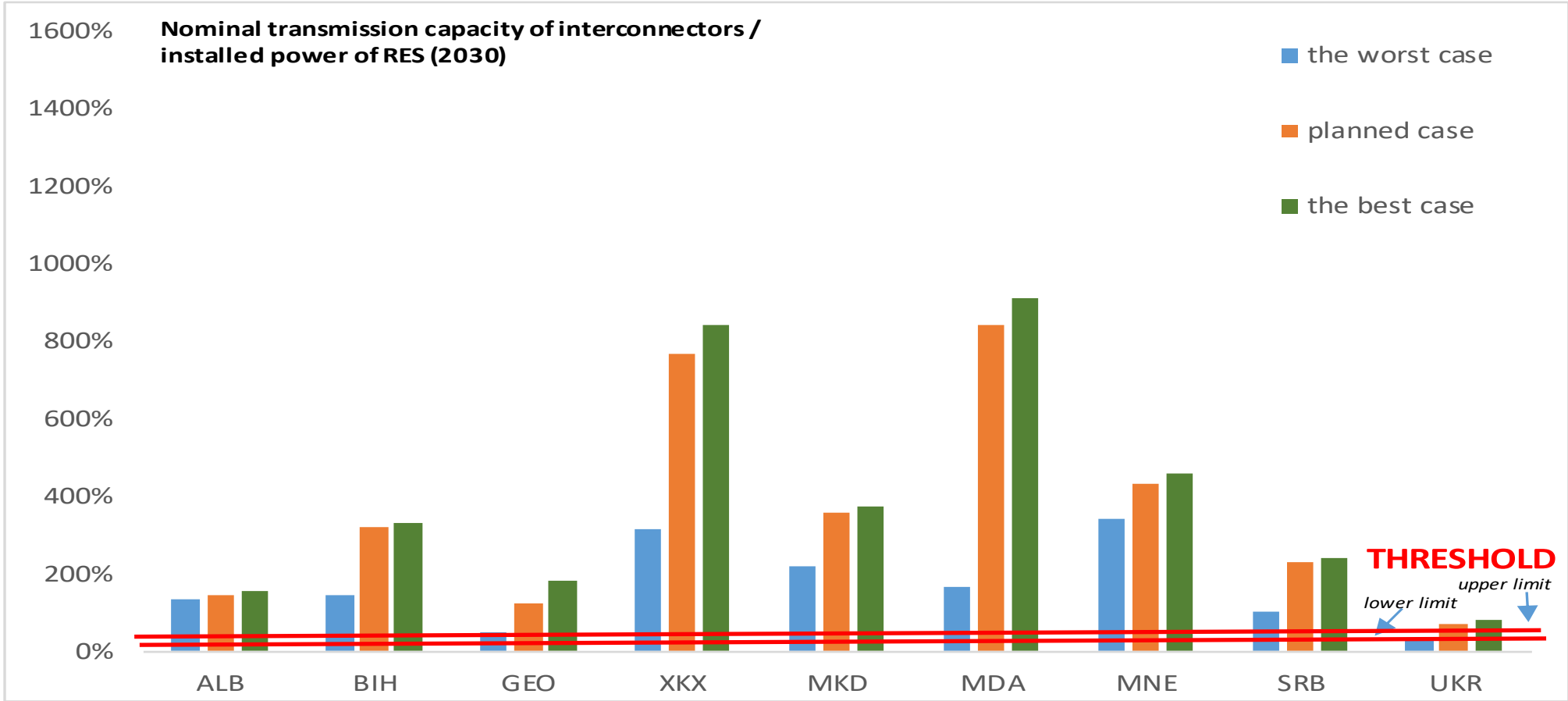
Source: compiled and calculated by the Energy Community Secretariat.

Installed electricity generation capacities from RES (excl. large hydro) (MW)



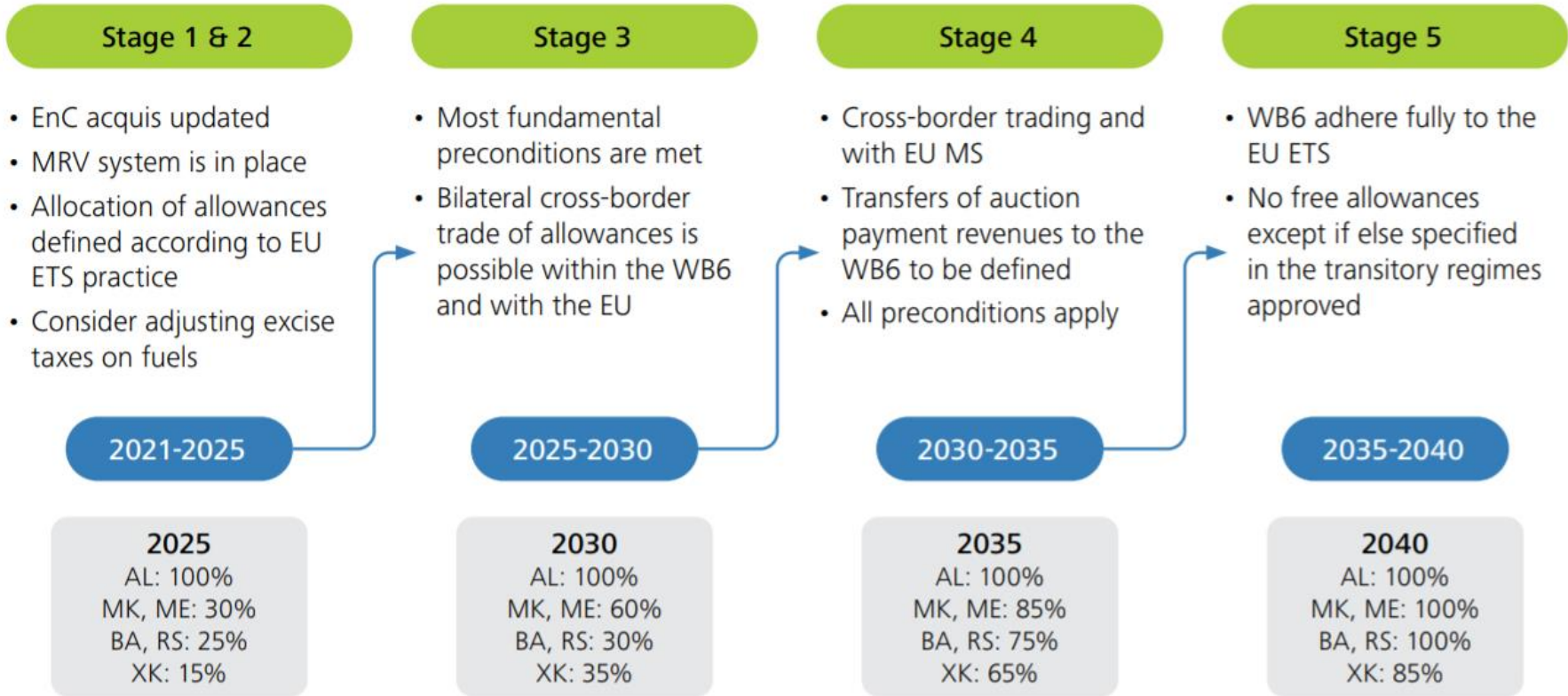
Source: compiled and calculated by the Energy Community Secretariat.

COMPLIANCE WITH THE INTERCONNECTIVITY TARGETS 2030

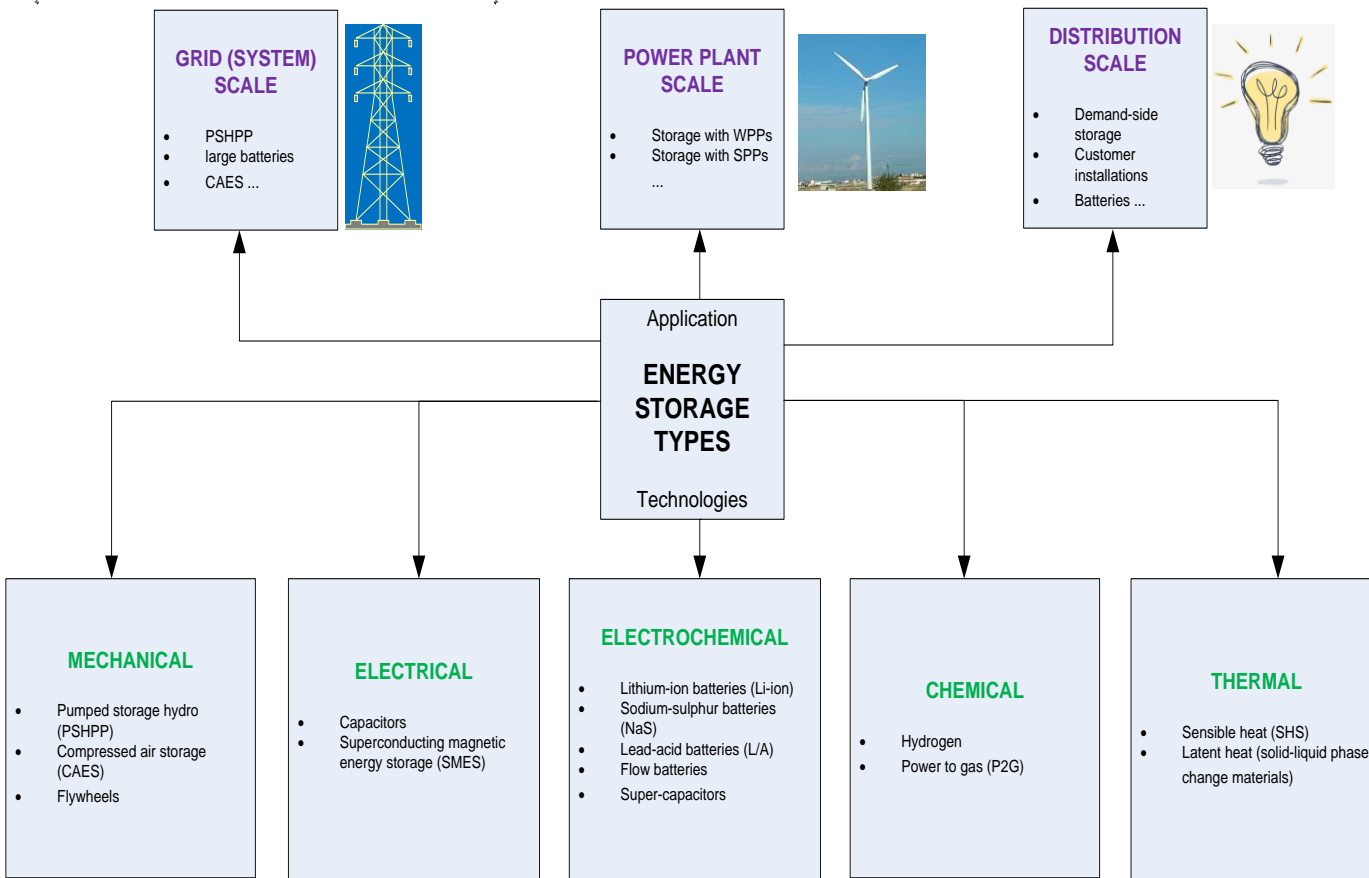


INTRODUCING CARBON PRICING

Indicative timeline and steps for joining EU ETS



THE ROLE OF ENERGY STORAGE IN THE EnC CONTRACTING PARTIES



Today:

Grid scale - PSHPPs (Serbia, BiH)

Power plant scale – N/A

Distribution scale – minor

New projects:

PSHPPs (Serbia, N. Macedonia)

Batteries (Kosovo, Ukraine)

Power system flexibility needs:

- **Gas fired power plants, HPPs**

- **Energy storage**

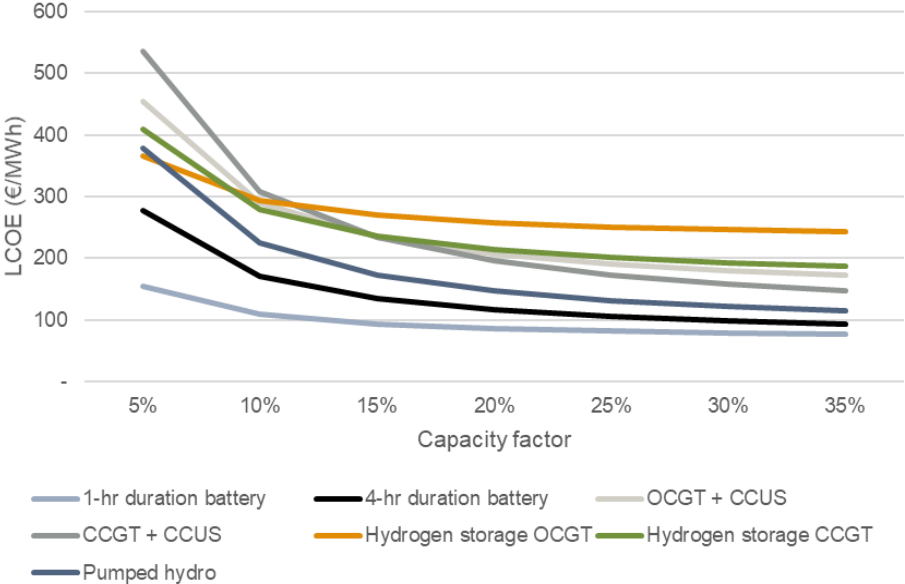
- **PSHPPs**

- **Batteries**

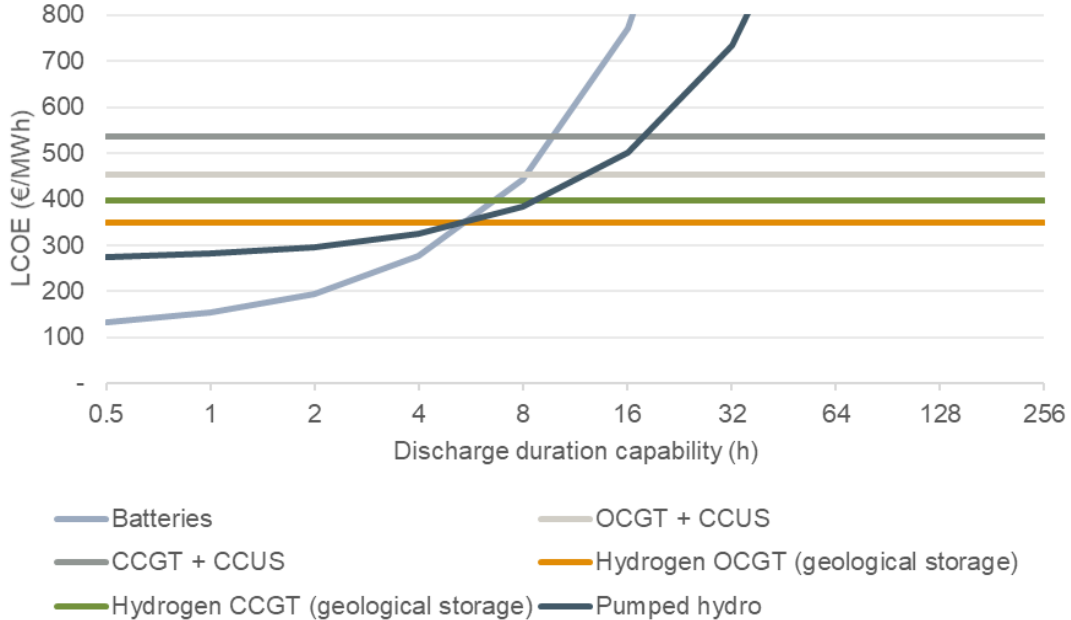
- **Hydrogen**

THE ROLE OF ENERGY STORAGE (Hydrogen)

Competitiveness of mature renewable hydrogen power generation by capacity factor (Base-cost case)



Competitiveness of mature technology costs for different dispatch duration capabilities with 5% capacity factor



Source:



HYDROGEN WILL STRUGGLE TO BE ECONOMICALLY COMPETITIVE COMPARED TO BATTERIES AT SHORT DISPATCH DURATIONS OR GAS WITH CCUS FOR LONGER DISPATCH DURATIONS AND AT HIGHER CAPACITY FACTORS



THANK YOU FOR YOUR ATTENTION

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