



The future of electrification and energy storage in the EU

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Meeting the growing demand for electricity storage

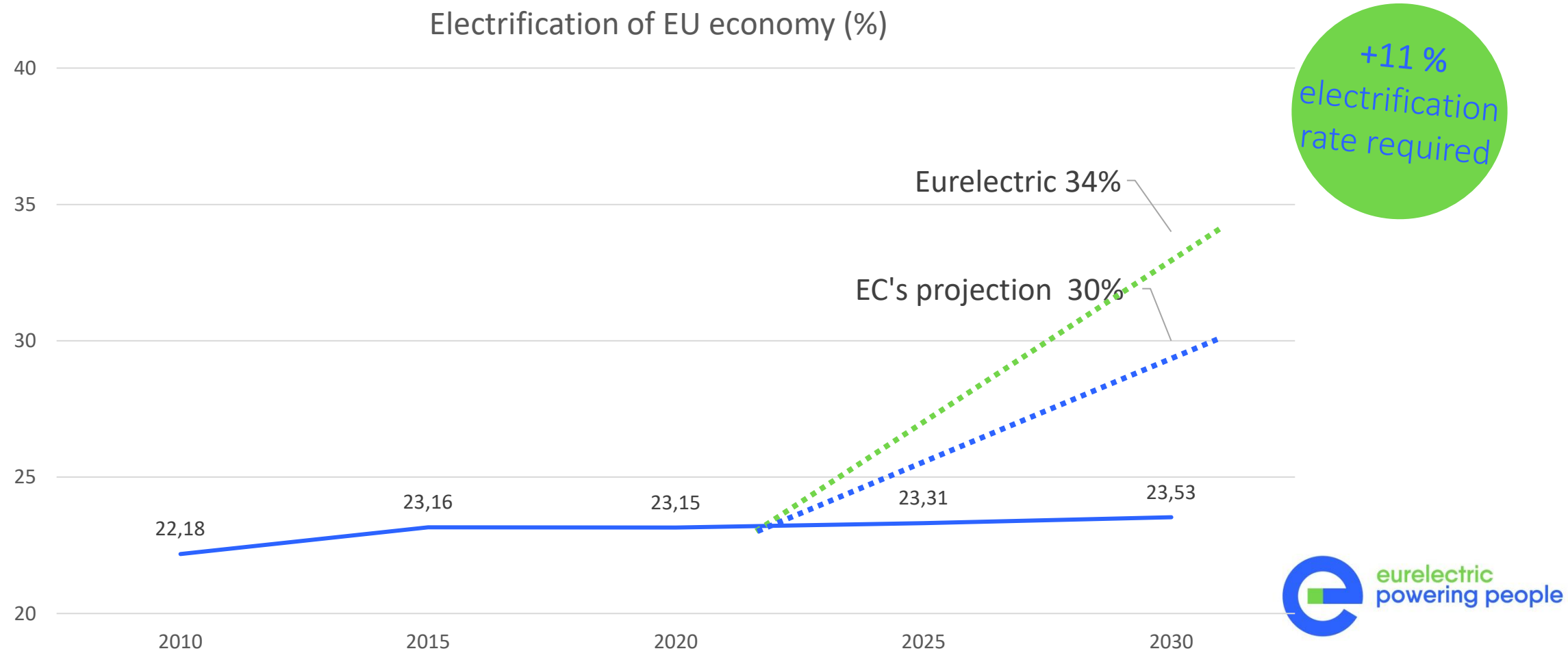
ELECTRIFY now to meet DECARB TARGETS

Increasing RES share raises FLEXIBILITY NEEDS

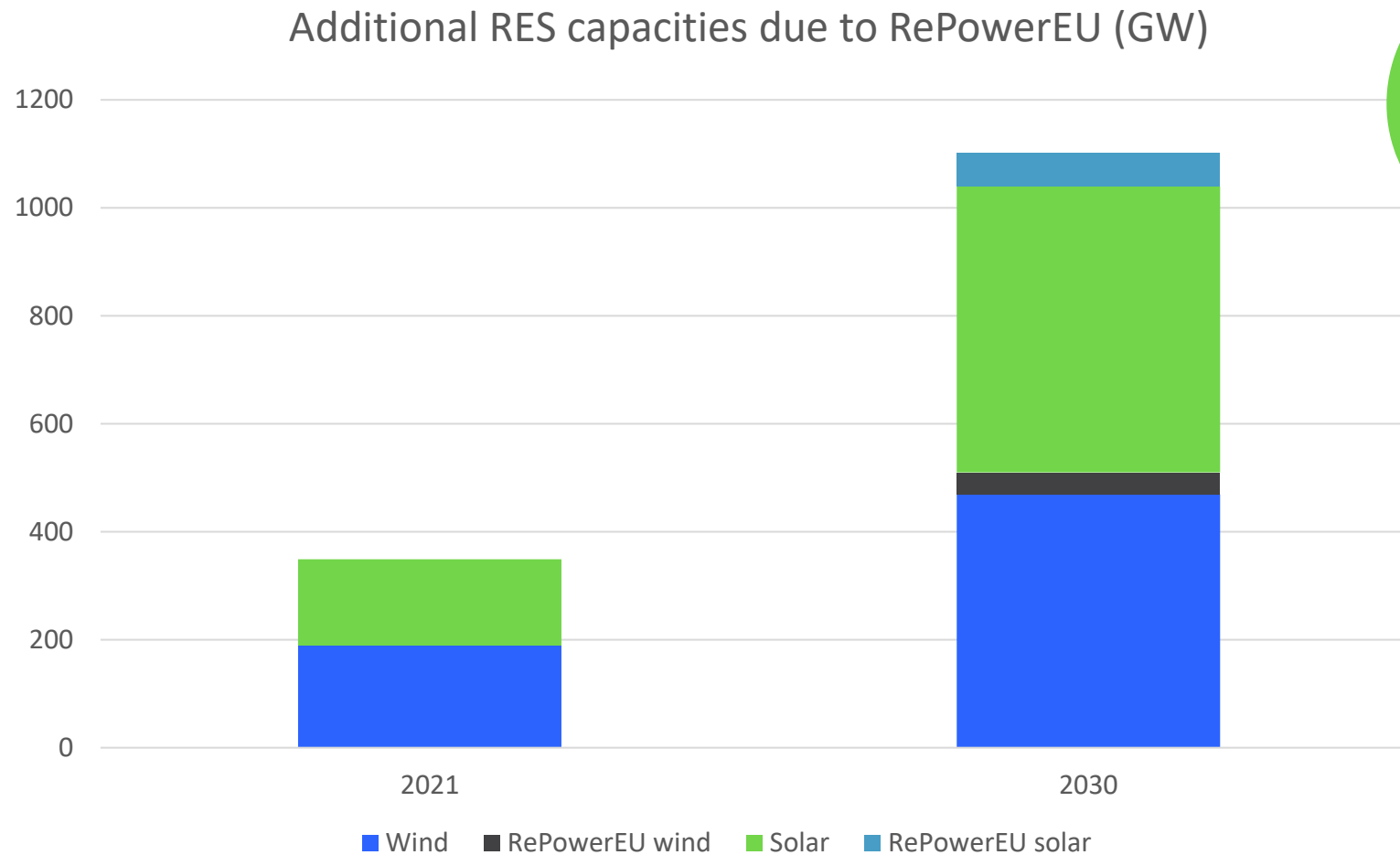
ALL STORAGE TECHNOLOGIES are required

BOTTLENECKS must be overcome

Electrification rate must significantly increase



REPowerEU is raising the bar



+753 GW
of RES
capacity

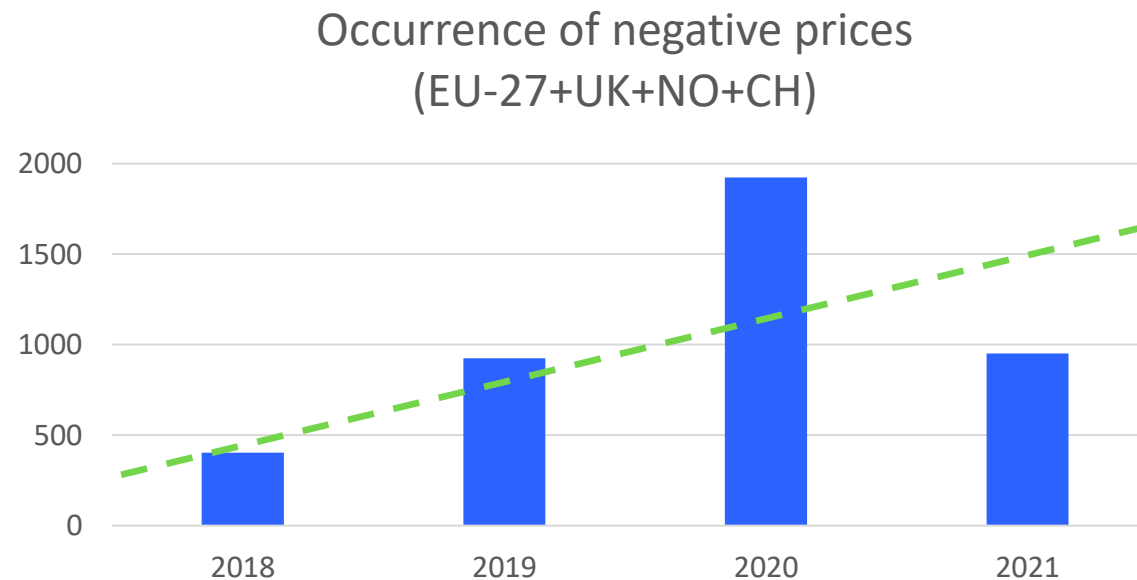


Source: Eurelectric Power Barometer 2022

25/10/2022

Negative electricity prices show the lack of flexibility

- A **growing share of renewable energy** without sufficient storage and flexible resources leads to increased **occurrence of negative day-ahead electricity prices**

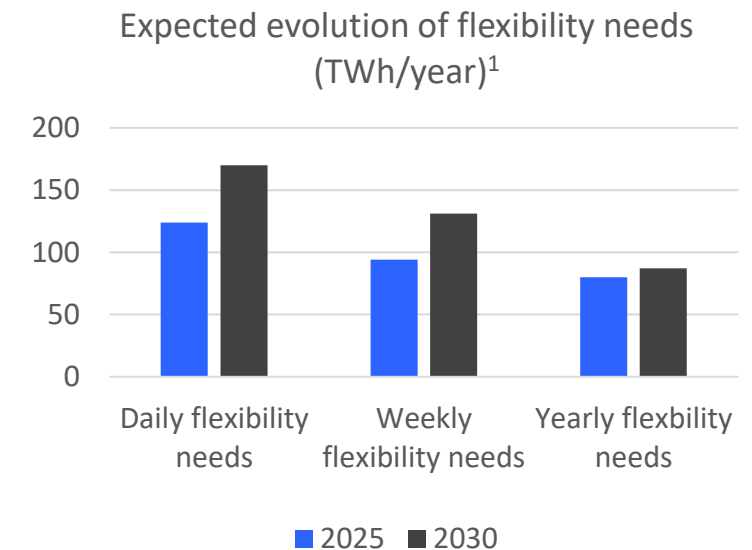
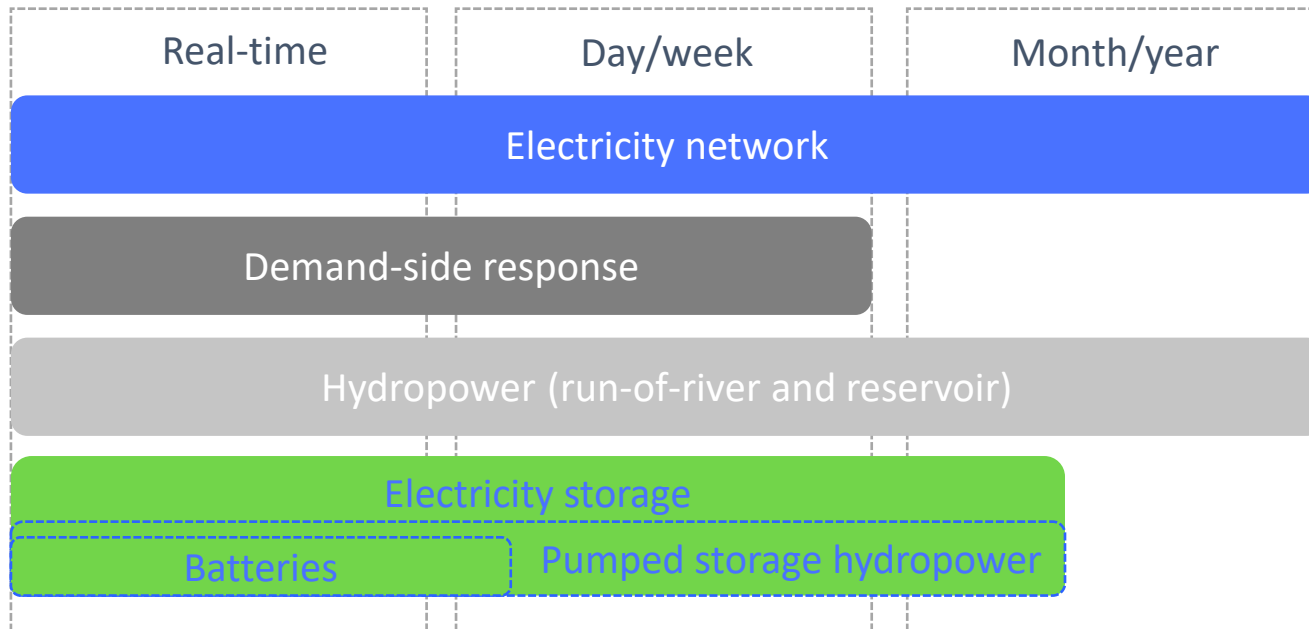


Source: Eurelectric Power Barometer 2022; ENTSO-E transparency platform

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Flexibility needs arise at every possible timeframe

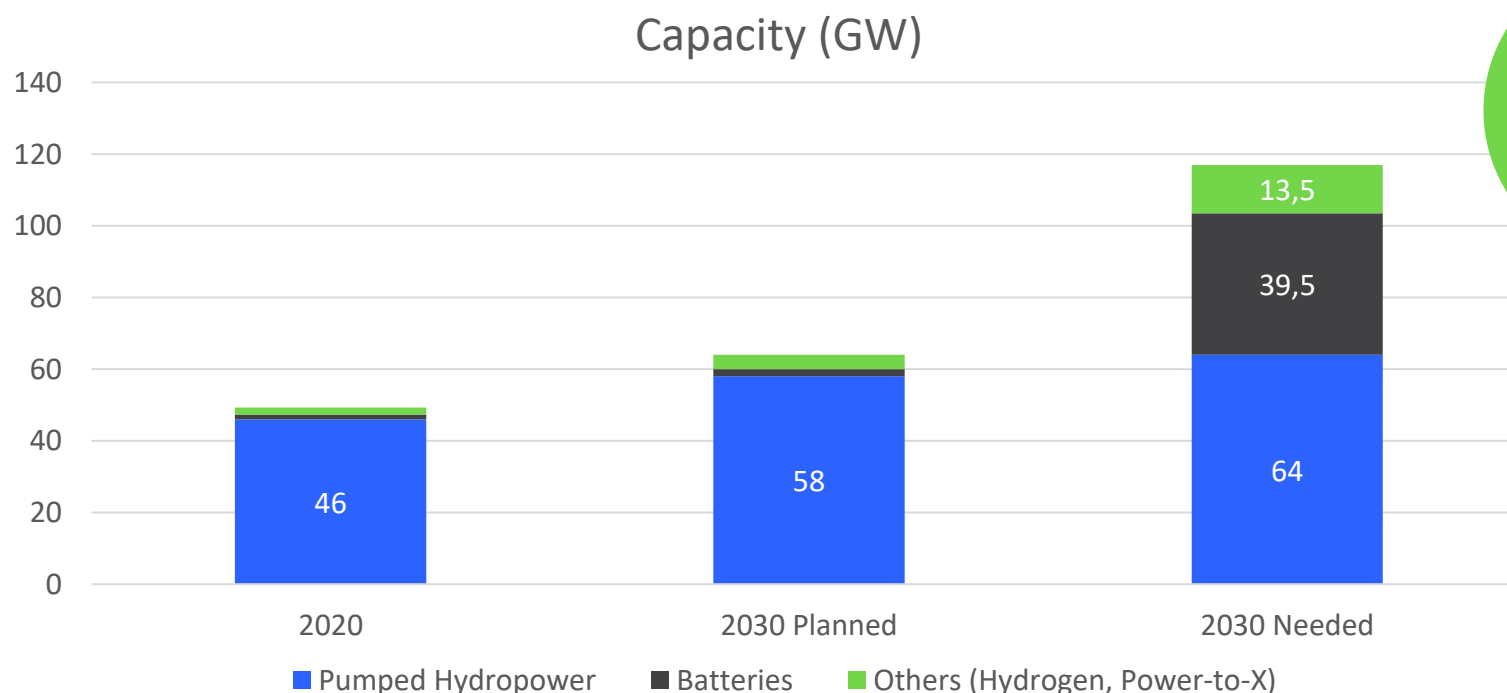
- To replace thermal generation plants, an efficient technology portfolio providing flexibility for short and long durations is required



¹Source: ACER 2022 - Final assessment of the EU Wholesale Electricity Market Design

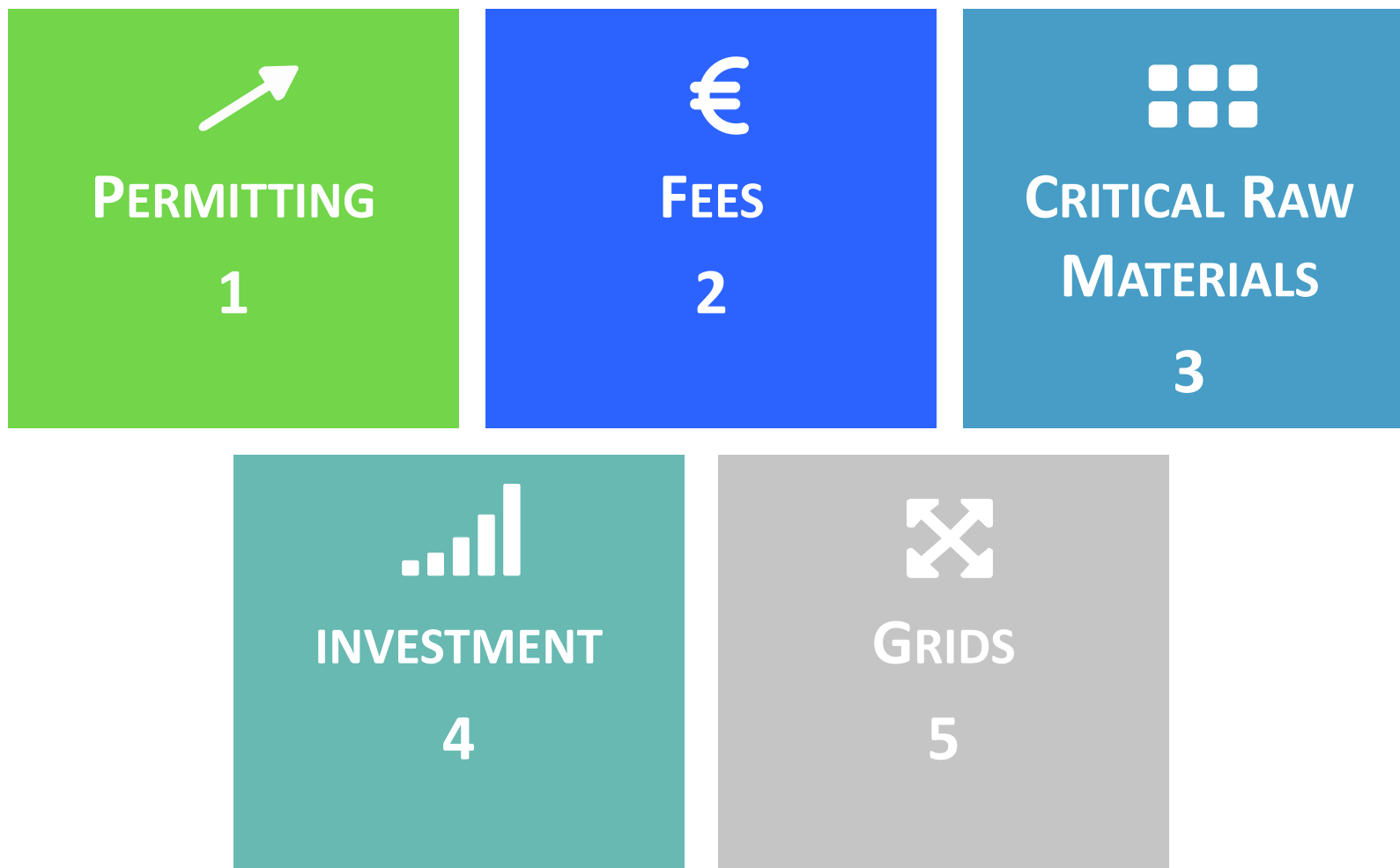
Increase demand for electricity storage

- To ensure security of supply, carbon-neutral, reliable, and flexible capacity must be developed on a large scale to replace fossil fuels



+50 GW
of storage
capacity
needed

Bottlenecks



Eurelectric is calling for

1. Accelerate permitting to achieve faster decarbonisation
2. Holistic and technology neutral approach to create a level playing field for storage facilities
3. Provide clear and stable regulatory frameworks to secure investment in the power system
4. EU funding of research and innovation for storage technologies

To fully decarbonise EU Power well before 2050

