

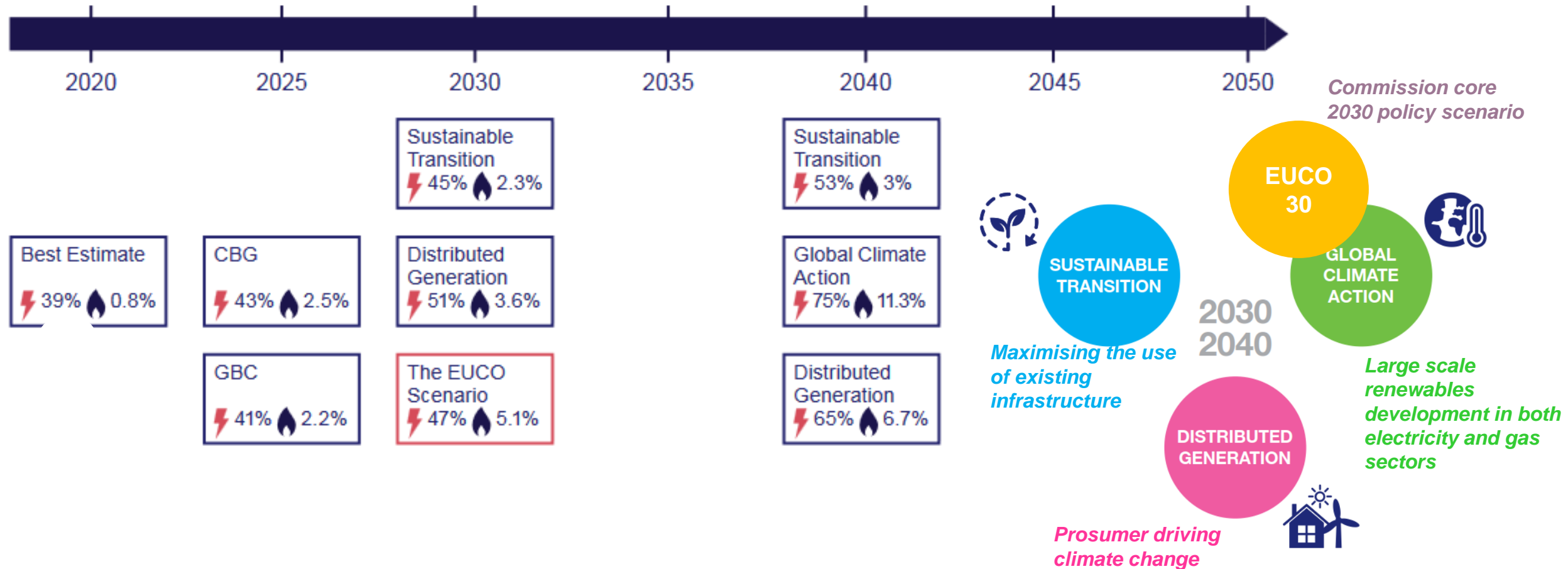
TYNDP 2018 : key takeaways


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ENTSO-E

ENTSO-E Ten Years Network Development Plan 2018

- 1 What are credible and sound pathways to reaching emission targets and to 2040?
- 2 What investments are needed to keep costs of a reliable system at a minimum?
- 3 How can ongoing storage or transmission projects contribute?

Sound scenarios

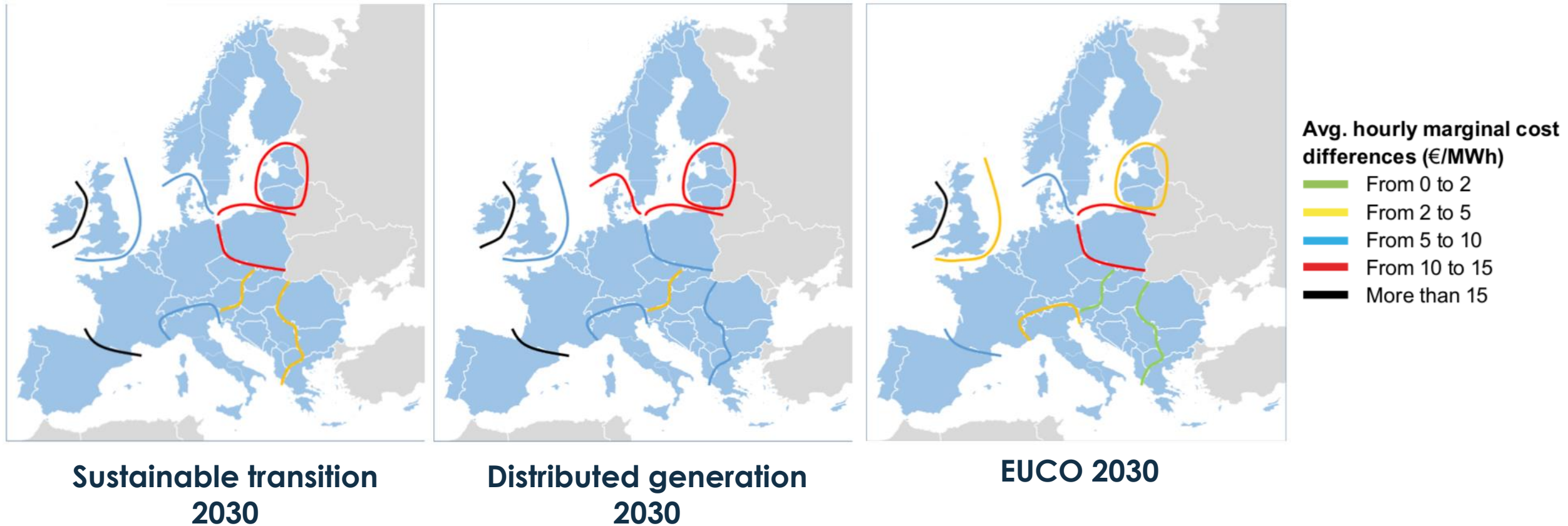




2030
2040

What the
system
needs?

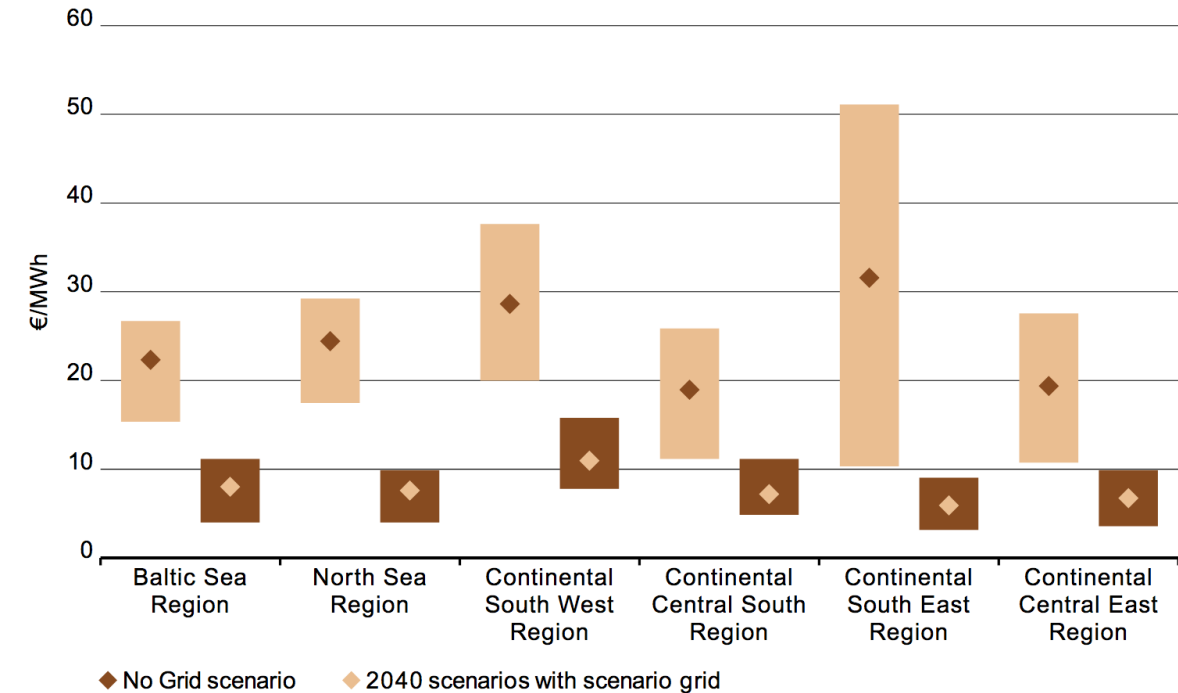
The system in 2030: high price spreads can be mitigated by targeted solutions



Impact of the implementation of existing mature projects (reference grid) by 2030 compared to a “no new projects” approach

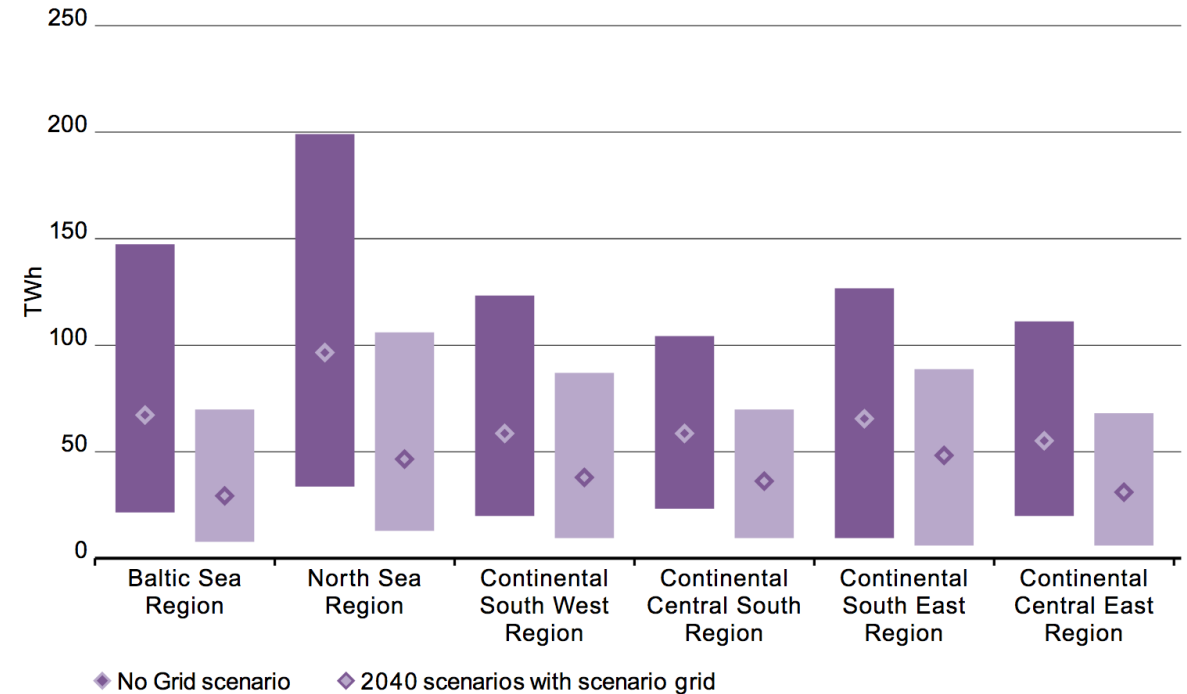
The system in 2040: high RES create new needs

Range and average of all scenarios and climate years



43 Md €/year

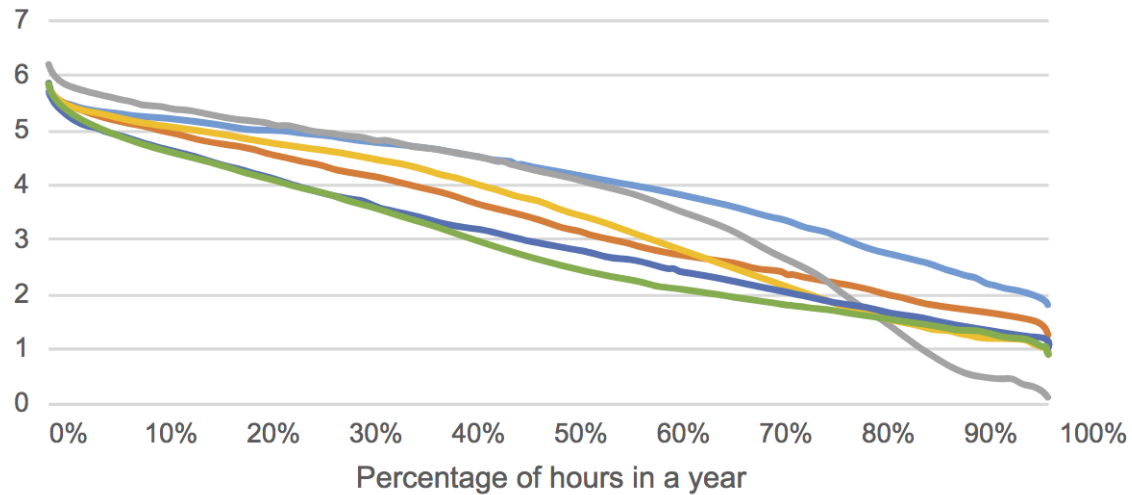
European – Curtailed energy
Range and average of all scenarios and climate years



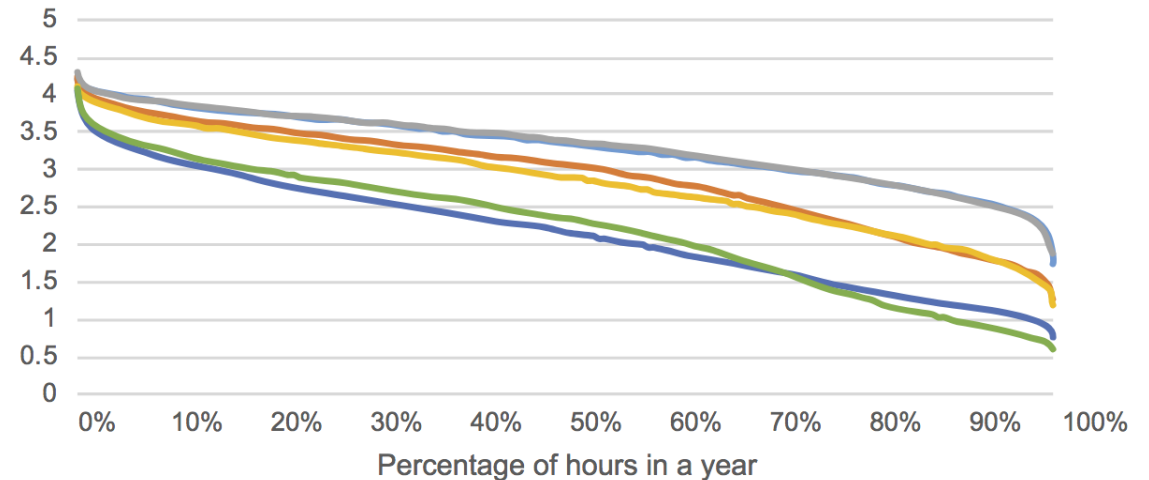
156 TWh/year

Operational needs: a game changer for electricity markets

Synchronous Area Inertia (H(s)) – Ireland



Synchronous Area Inertia (H(s)) – CE



The image features two large, white, wireframe sculptures of human figures standing on a dark, rocky shore. The figures are positioned side-by-side, facing forward, with their arms raised and hands joined. They appear to be holding onto thin, vertical lines that stretch from the top of the frame down to their hands. The background consists of a hazy, overcast sky and distant, low mountains. The overall mood is contemplative and artistic.

Ongoing projects across Europe

