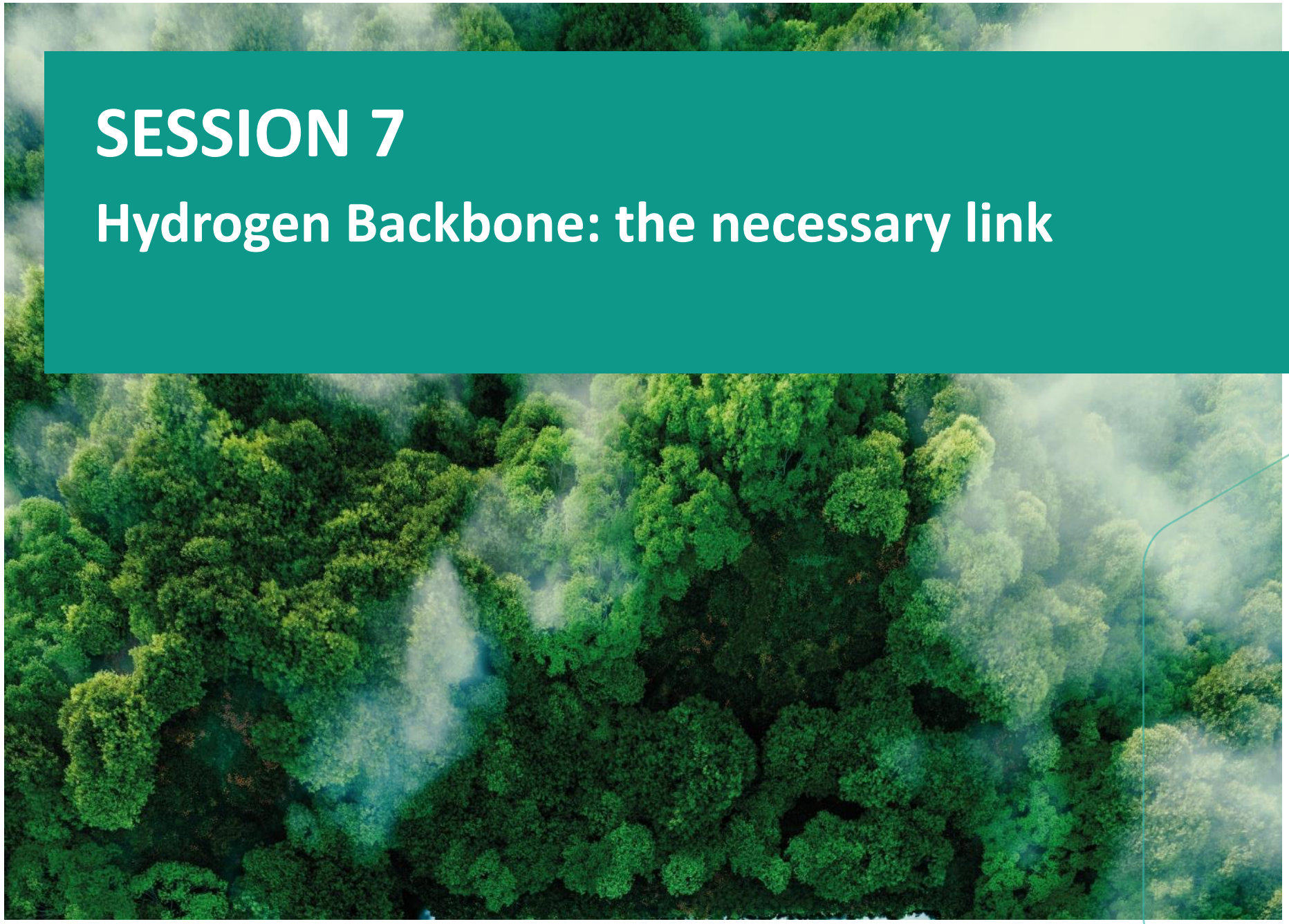
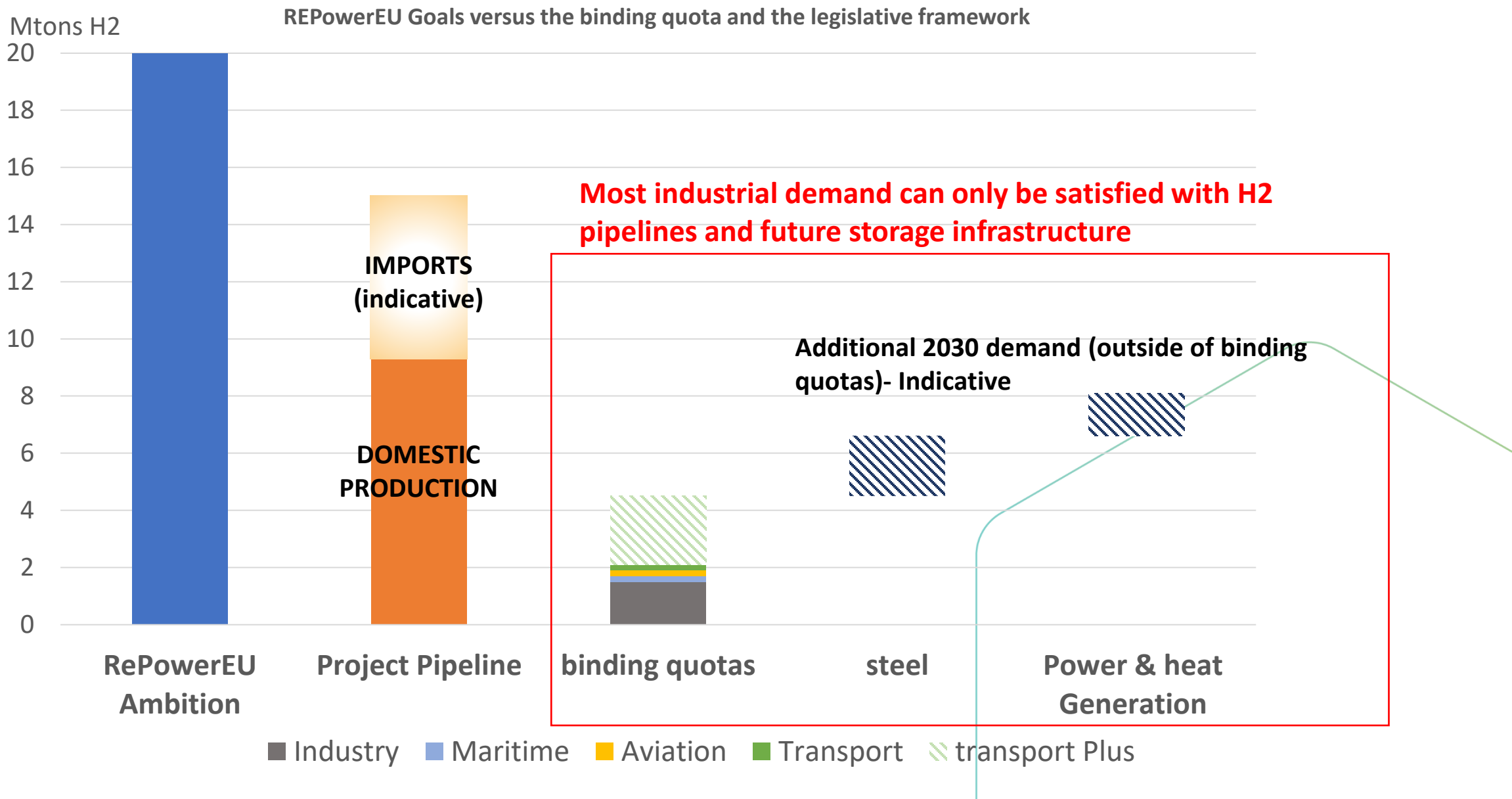


SESSION 7

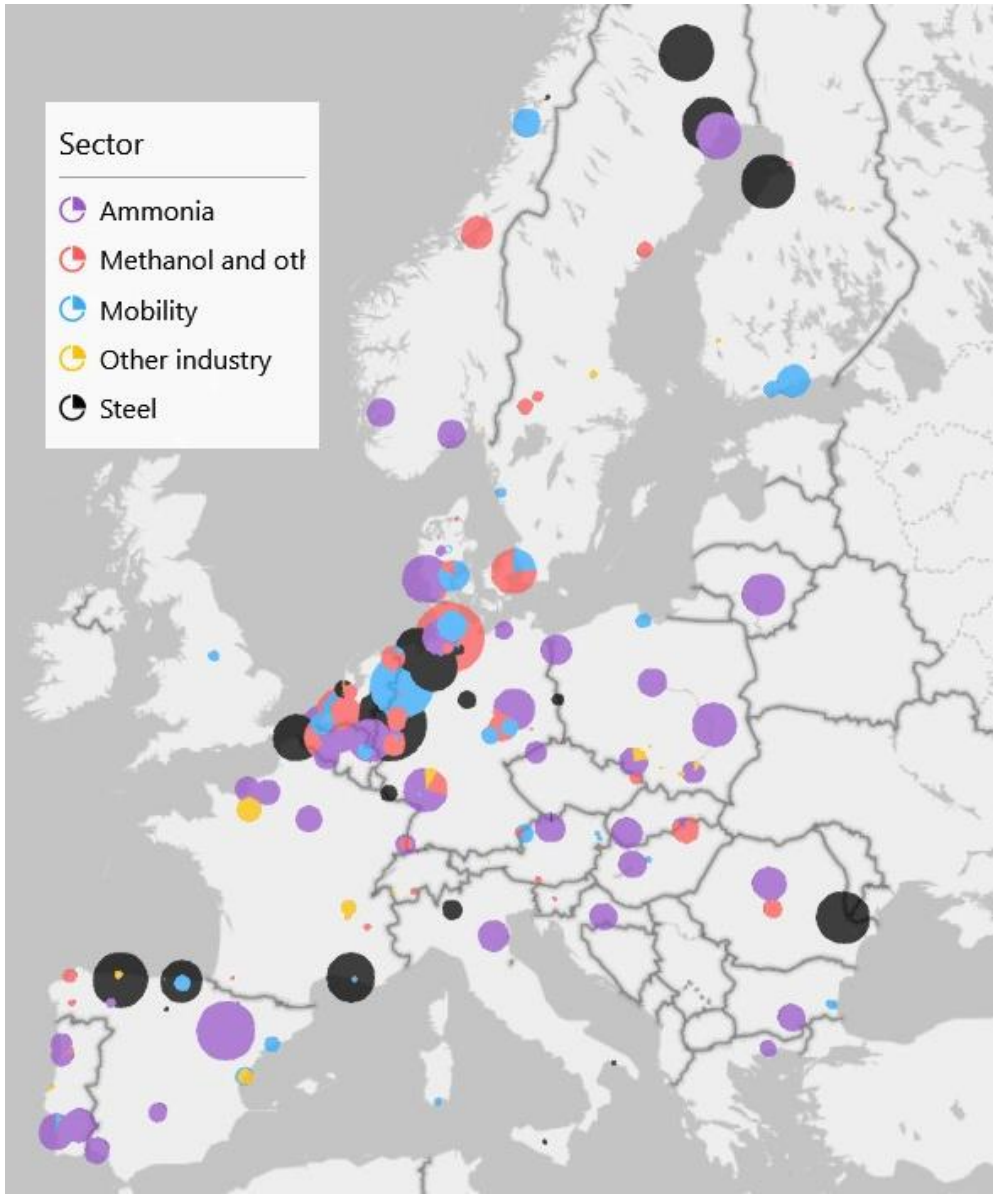
Hydrogen Backbone: the necessary link

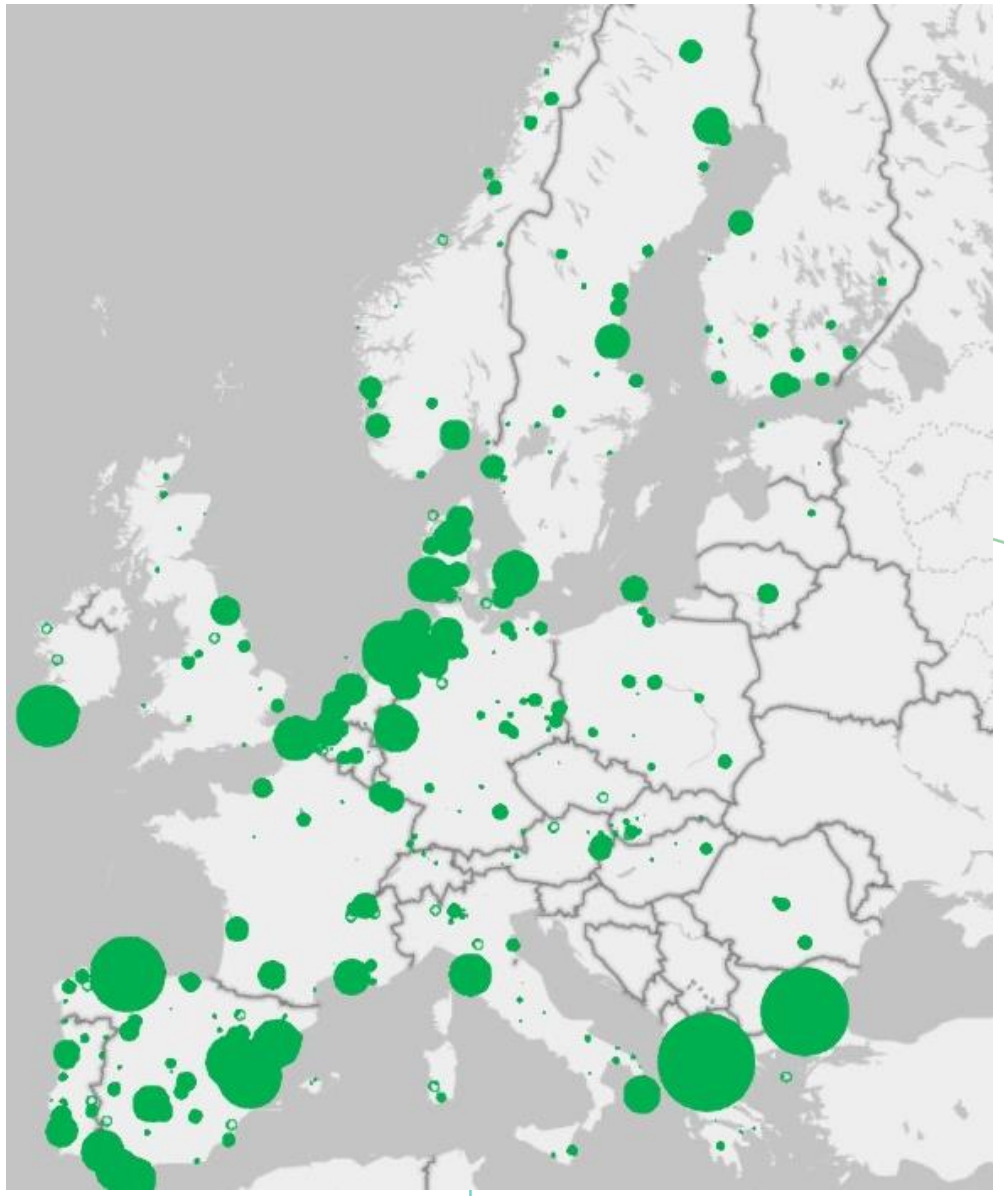
Hydrogen Europe

2030 RepowerEU Targets will require investments in infrastructure

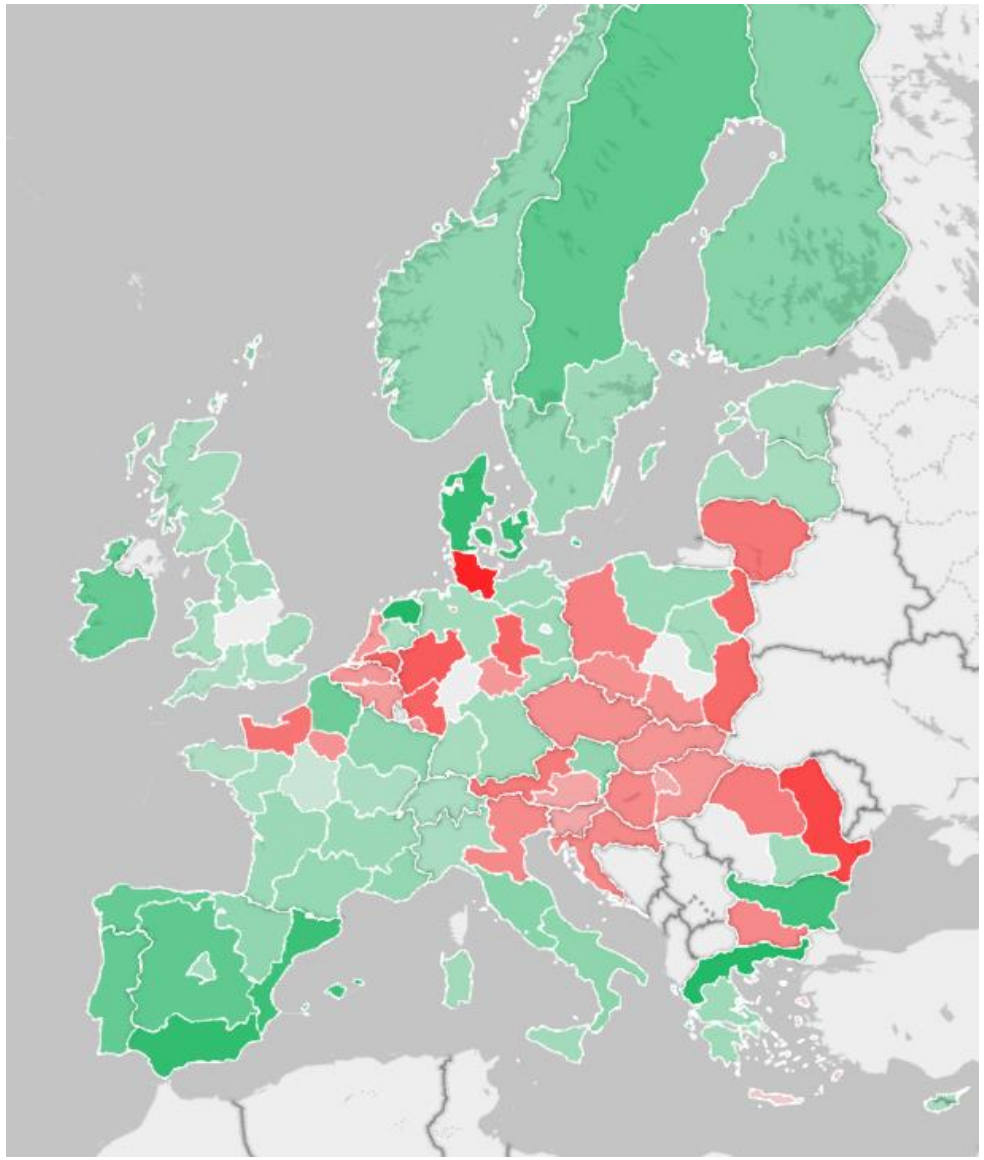


Hydrogen demand and supply by 2030





Hydrogen supply and demand balance



Hourly correlation makes onsite generation almost impossible.

➢ **WE NEED H2 PIPELINES AND STORAGE SITES**

Hydrogen Infrastructure

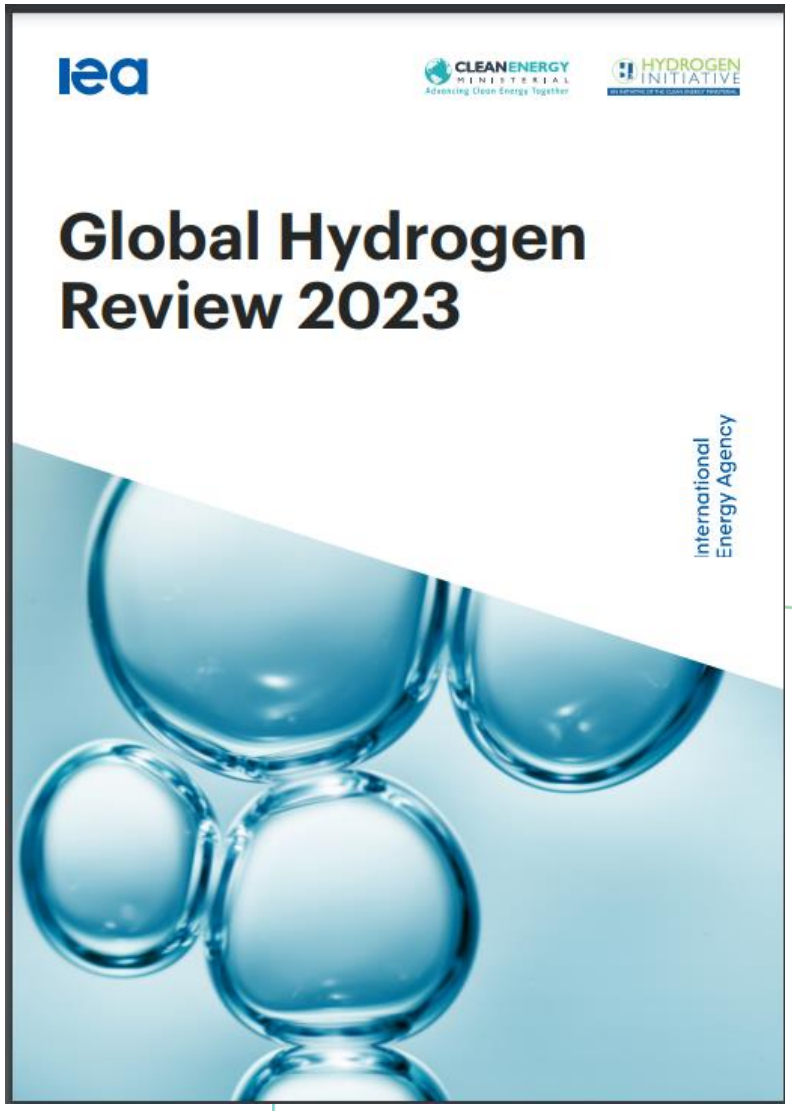
A global hydrogen market depends on:

- off-takers
- certification schemes
- **necessary infrastructure**

- 50 terminals and port infrastructure announced.

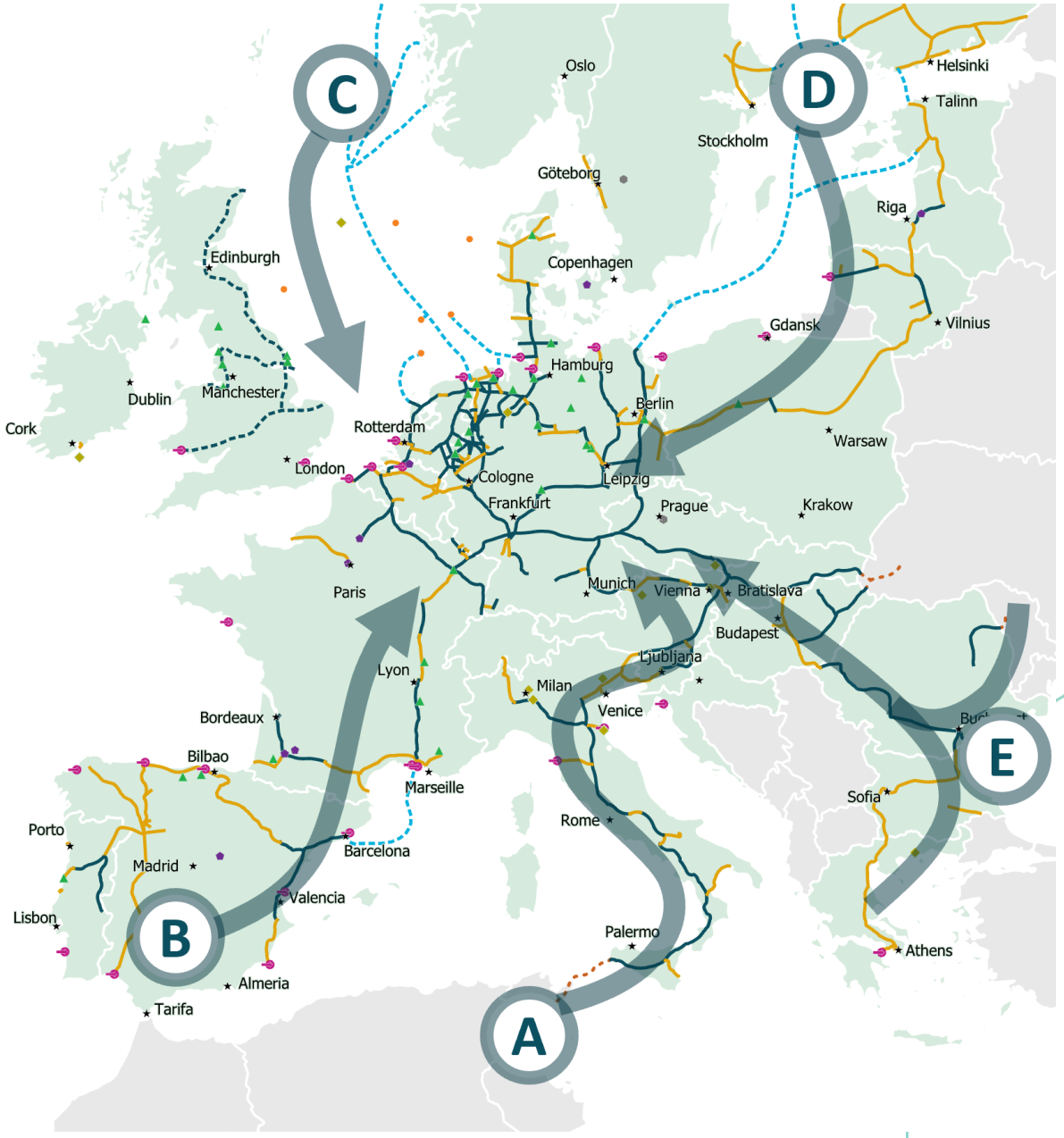
- Up to 5 TWh of underground storage capacity by 2030 (more than 80TWh needed in the EU)

but none of them has reached FID



Hydrogen Backbone corridors

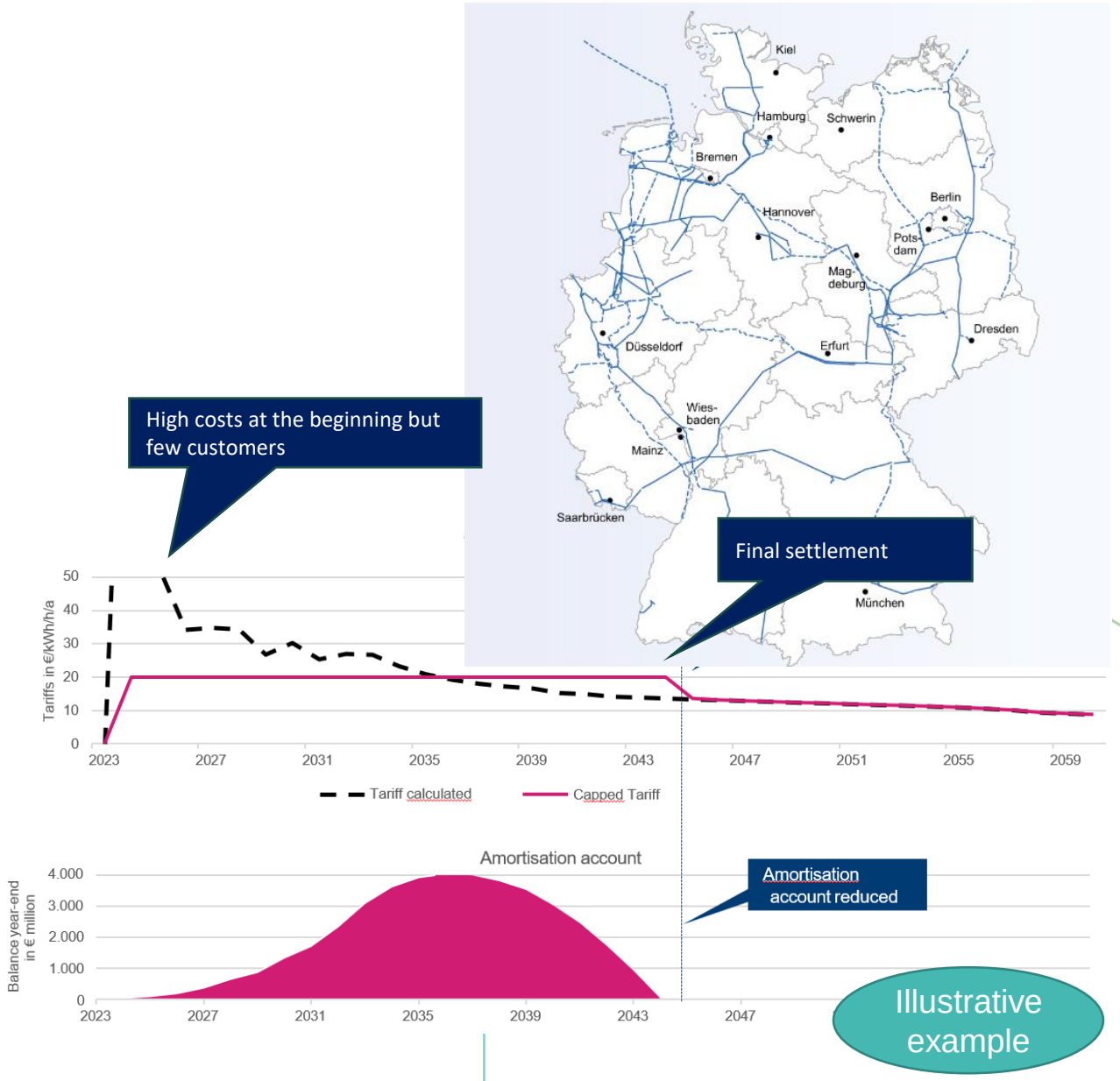
Hydrogen Europe



Hydrogen infrastructure – the German example

Financing model:

- Network operators to go in advance while the state is **hedging risks**
- **Amortisation account** during the ramp-up phase
- Higher revenues in later phases **to level out** account in the account
- If gap remains, the **state will level out the account**



Investments in hydrogen infrastructure: global perspective

Hydrogen Europe

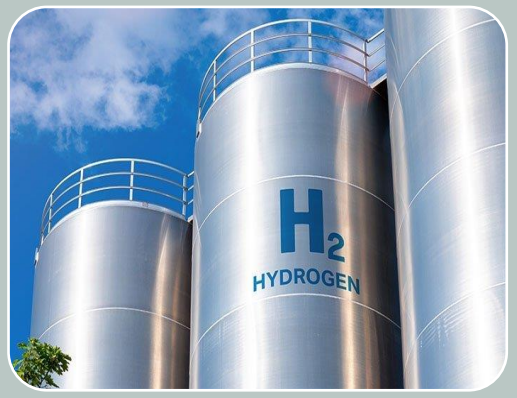
”Europe will do ***whatever it takes*** to keep its competitive edge”

Conclusions

Geographical mismatch between generation and demand

Industrial off-takers need a H2 infrastructure (for constant & reliable supply)

Hourly temporal correlation limits the option to produce the H2 at the off-taker facility



H2 infrastructure needs access to underground storage sites

Thank You

Hydrogen Europe

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