



EU Hydrogen Infrastructure Policy

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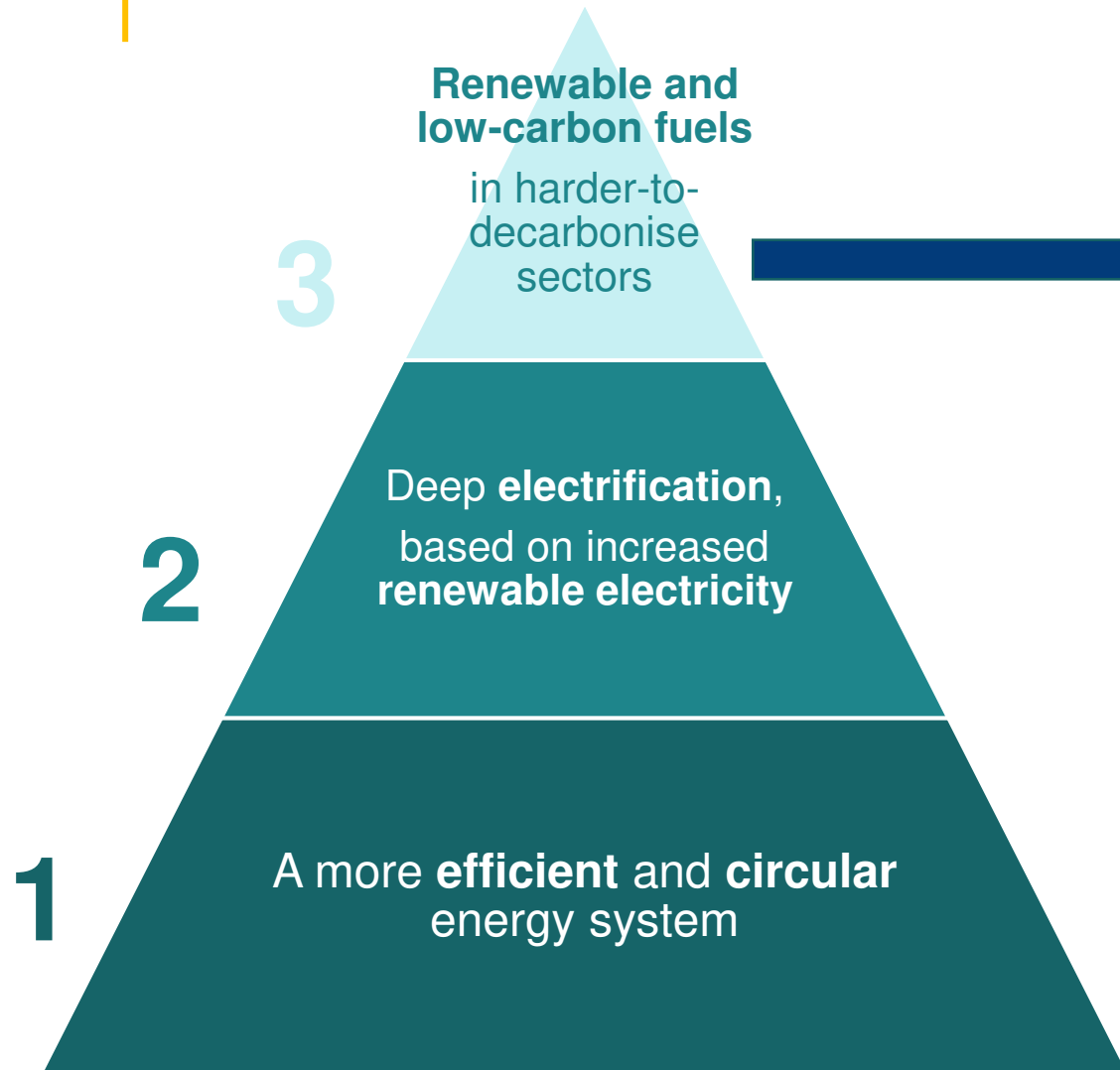
Team Leader Hydrogen Policy

Directorate-General for Energy

European Commission

FSR online seminar 18 September 2024

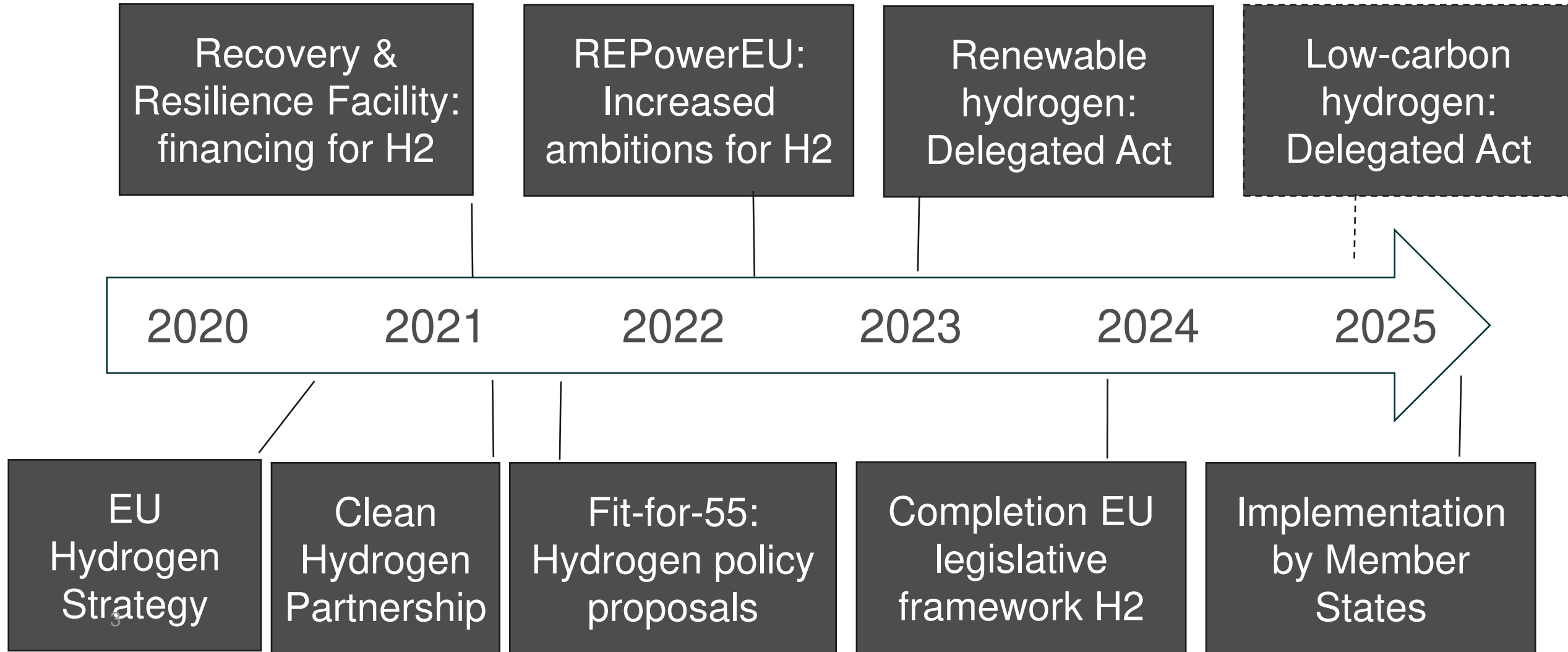
Transforming our energy system – role of hydrogen



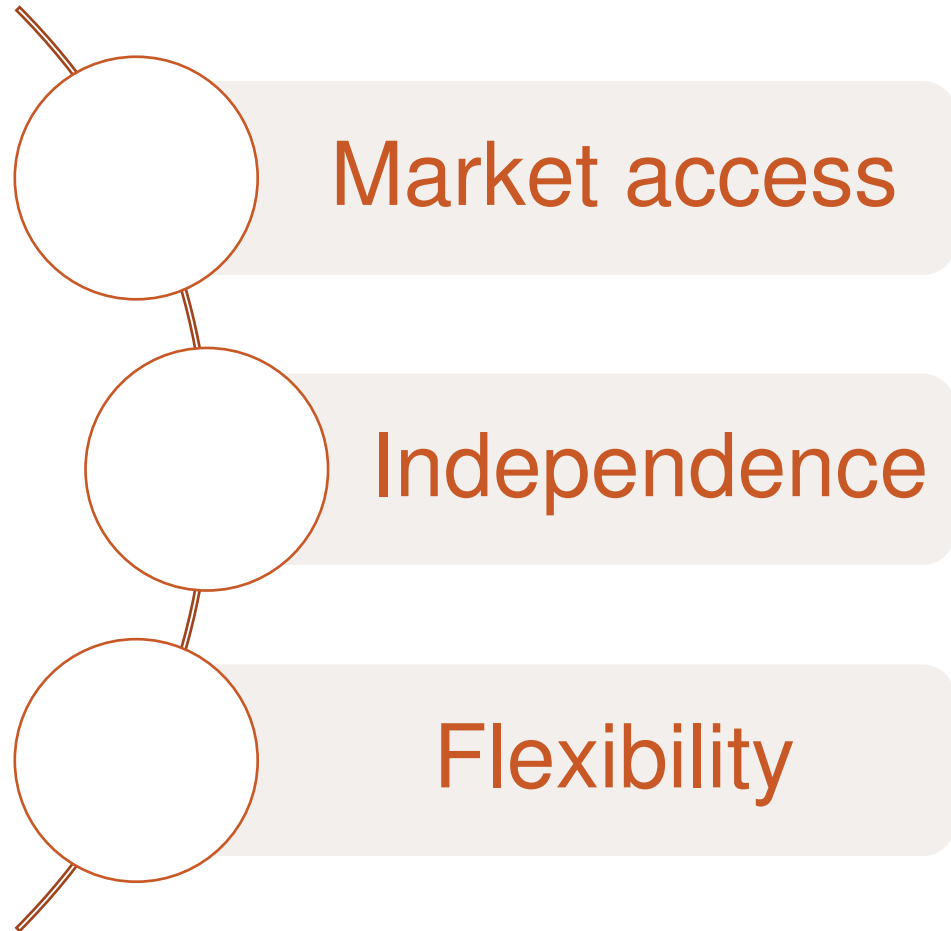
Framework conducive for infrastructure development

1. Regulatory framework
2. EU-national level planning/prioritisation
3. Financing

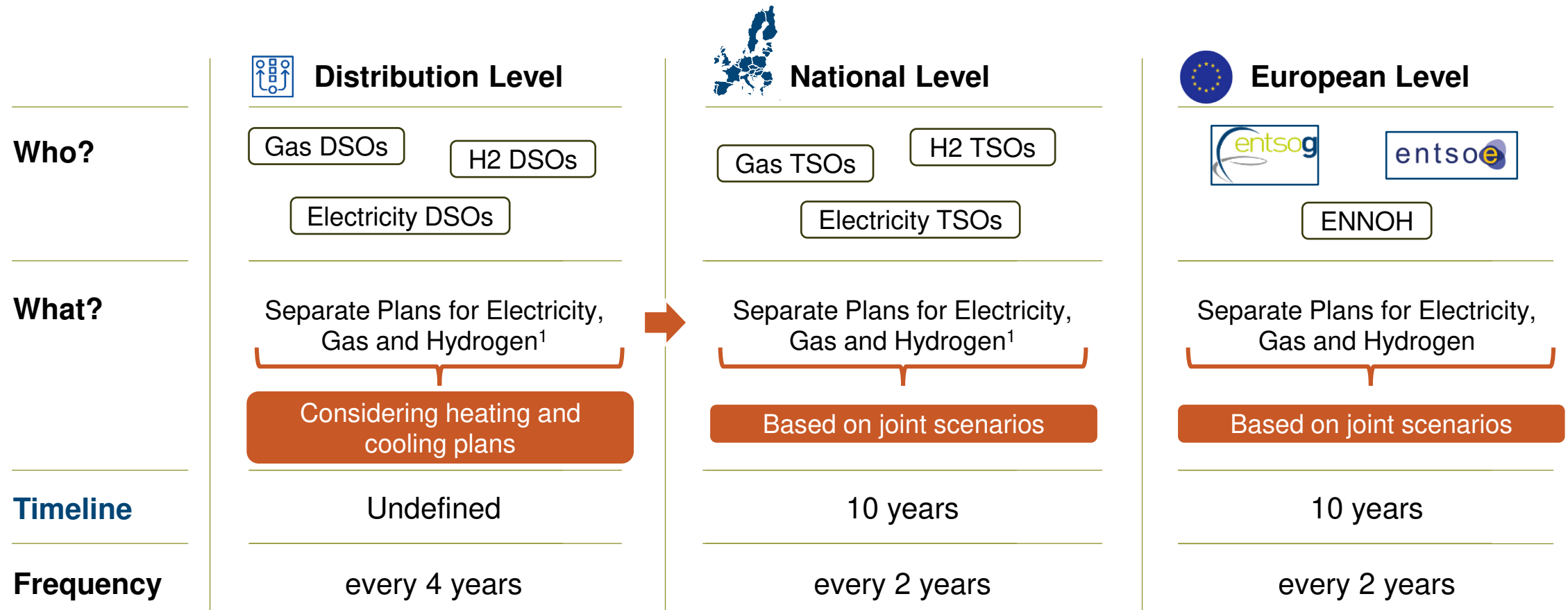
From hydrogen strategy to implementation



Market rules



Network plans under the Hydrogen/gas internal market package



¹ MS may opt for a joint plan for gas and hydrogen

EU funding support


- EU financing programmes (Innovation Fund, Horizon Europe/Clean Hydrogen Partnership...); state aid
- European Hydrogen Bank - first EU hydrogen auction: 7 winners in 4 Member States

IF23 AUCTION

132 BIDS
17 COUNTRIES

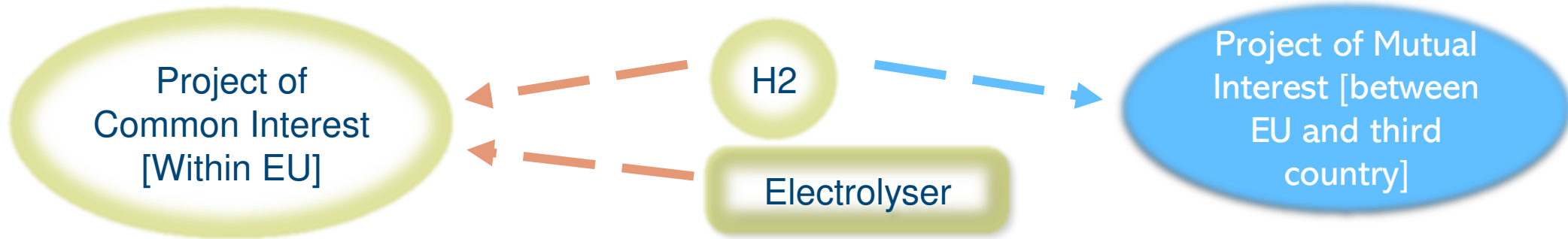
PILOT AUCTION
RENEWABLE HYDROGEN

INNOVATION FUND
Funded by the EU Emissions Trading System



The infographic is set against a dark blue background. It features white line-art illustrations of two wind turbines, a row of solar panels, and a hydrogen production unit with a tank and pipes. A box with 'H₂' is connected to the production unit. The text is in white and yellow, with the Innovation Fund logo in white and yellow.

Trans European Energy Networks Regulation



General criteria:

project at or with cross-border impact
 + priority corridor
 + positive CBA

Specific criteria:

market integration
 sustainability
 SoS/flexibility
 competition

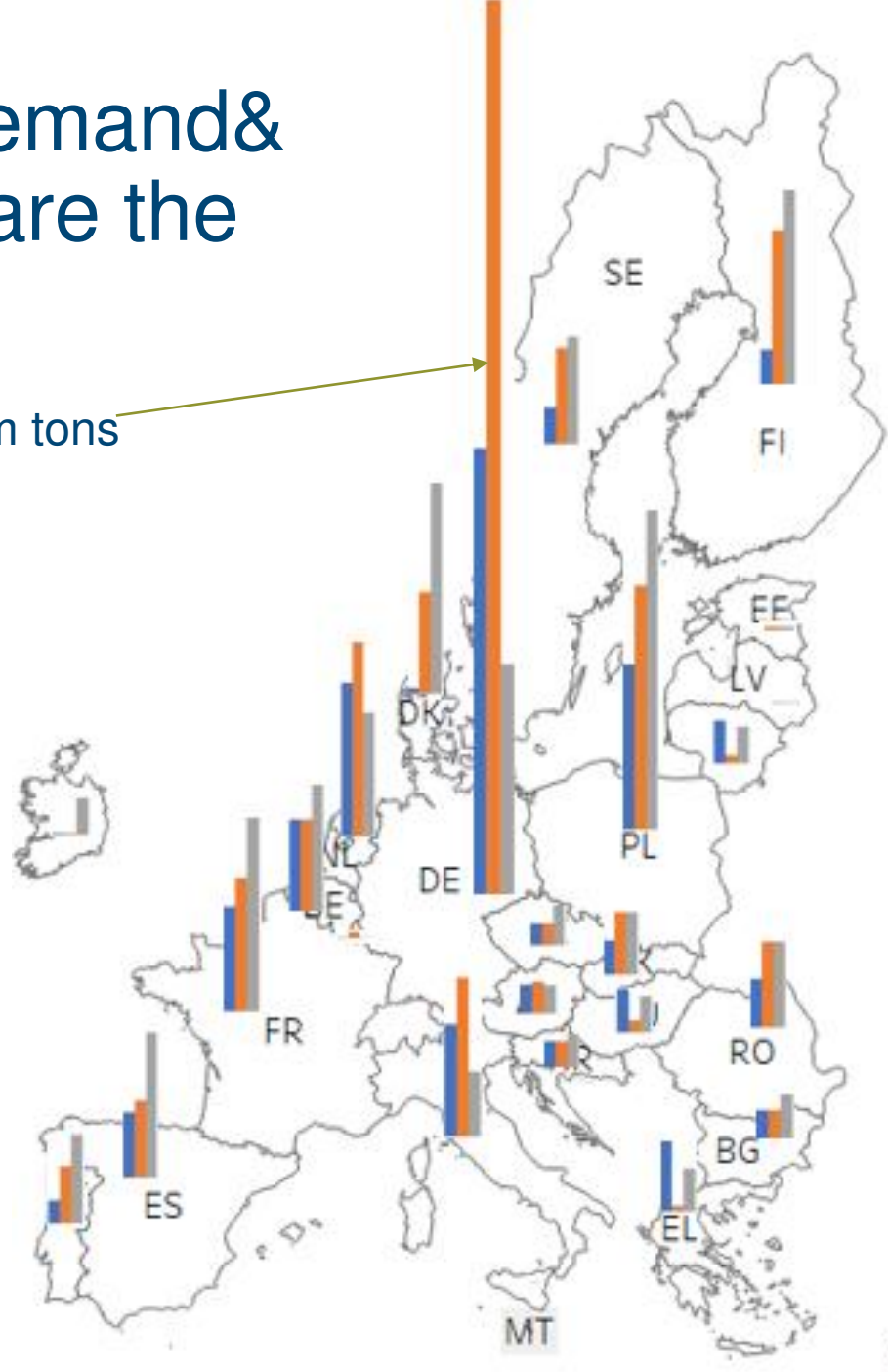
Technical criteria

pipelines,
 storage,
 reception facility
 electrolyzers

2022-2023 PCI/PMI selection process: 180 submissions in H2 and electrolyzers (H2: 147; electrolyzers: 32); **65 selected**

Estimates of EU demand & production to prepare the first PCI/PMI list

3.5 m tons

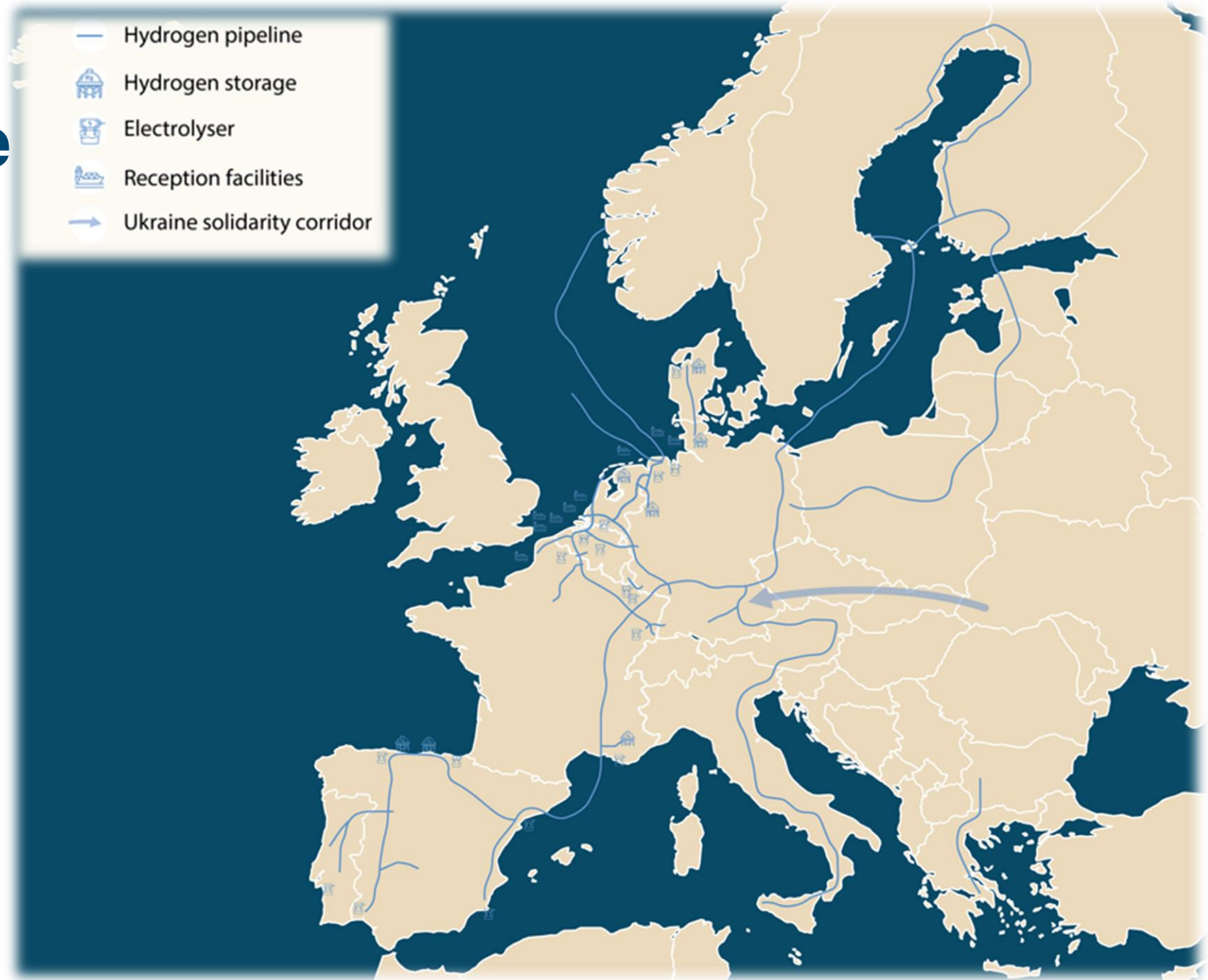


- Current DEMAND [kT]
- 2030 DEMAND data [kT]
- 2030 DOMESTIC PRODUCTION data [kT]

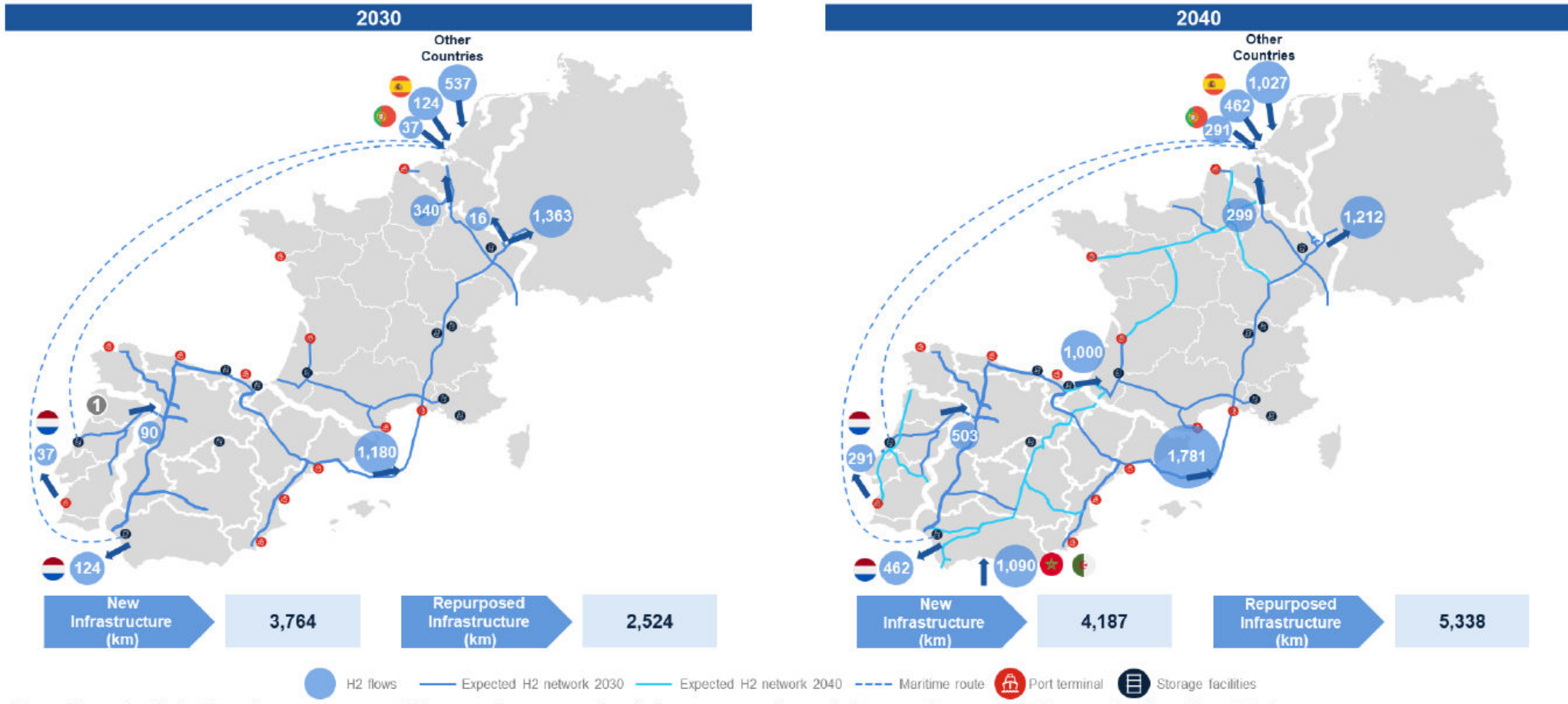
EU infrastructure priorities

2023: 65 projects on first list of hydrogen Projects of Common Interest and Projects of Mutual Interest

[For more details: 166 cross-border energy projects for EU support \(europa.eu\)](https://europa.eu)



Example: Possible hydrogen infrastructure in Western Europe





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