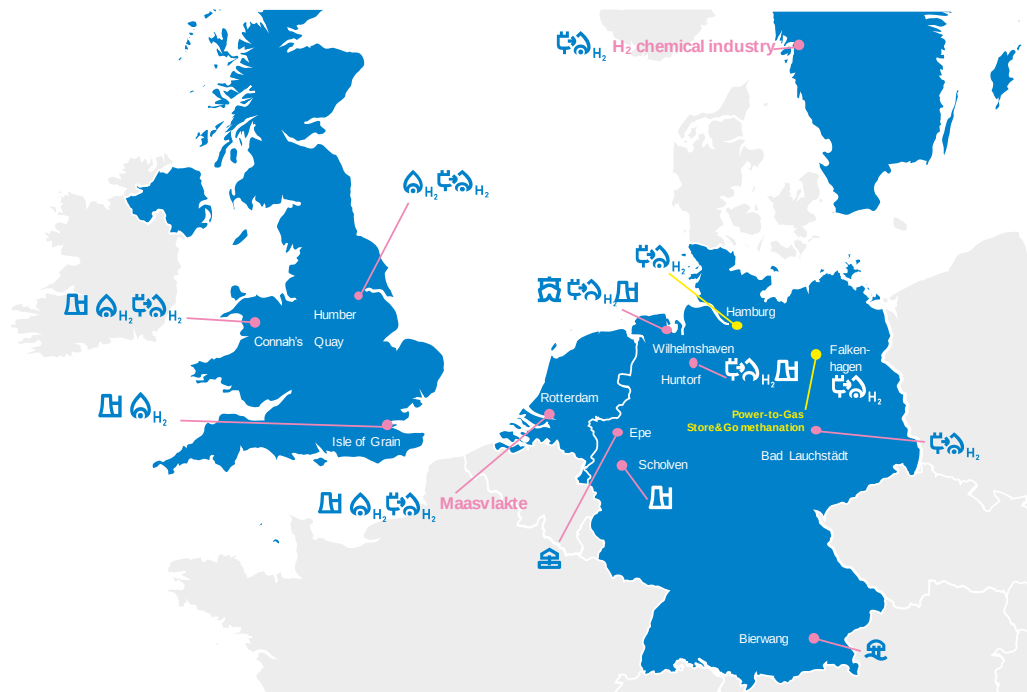




How does the EU meet its hydrogen demand?

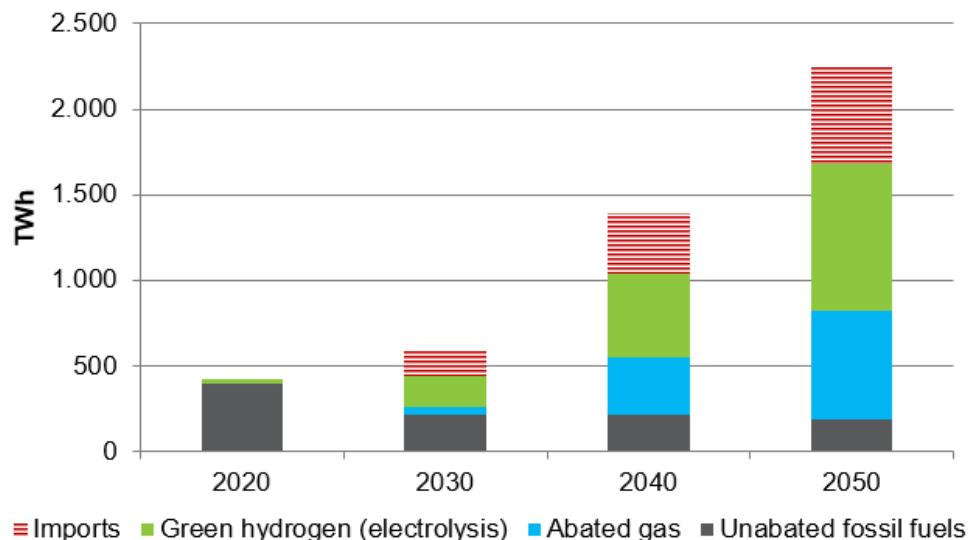
Dr. Holger Kreetz
European Energy Forum (EEF), 26.10.2021

Hydrogen empowers our decarbonisation journey



Europe will be strongly dependent on hydrogen imports

Evolution of European hydrogen supply



Source: IHS Markit

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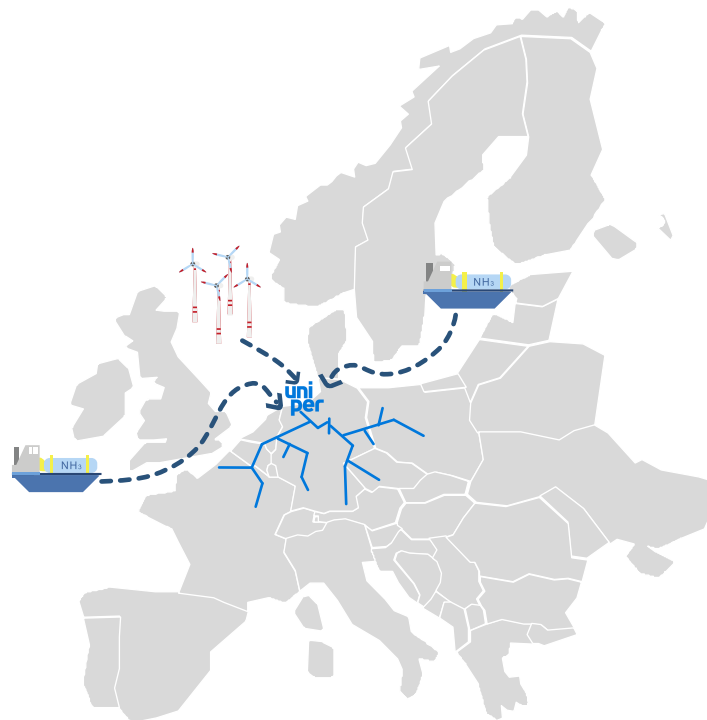
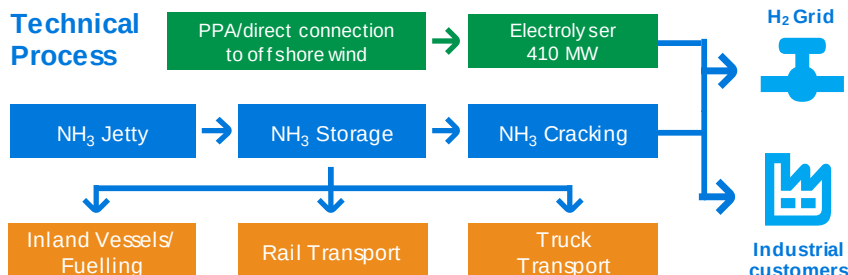
- Already by 2030, Europe needs hydrogen imports from overseas to meet its fast-growing hydrogen demand.
- Single European countries like Germany will have to import more than 80% of its hydrogen demand in 2050.
- In terms of domestic production, both, RES-based and natural gas-based hydrogen will be needed. In the long-run, green hydrogen will be the dominant hydrogen supply source.

Uniper's GreenWHV: Wilhelmshaven to become the gate to the international hydrogen world

Key Facts

- Construction of a scalable H_2 -Import terminal for import of green ammonia, potential for liquid hydrogen.
- H_2 -recovery from Ammonia-Cracking, feed in H_2 -grid and ammonia direct distribution.
- Construction of a 410 MW electrolyser on an industrial scale for supply of local industry and feed in H_2 grid.
- Total supply of around 295,000 tons of H_2 (10% of expected demand in Germany in 2030).

Technical Process



Key ingredients for success



**Cheap
renewables**

**H₂ production,
Logistics &
Conversion**

**Offtake technology
& Offtake
incentives**

**Supportive policy
framework**

**Strong
Partnerships**

Thank you for your attention

Dr Holger Kreetz

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