

ESG Strategist

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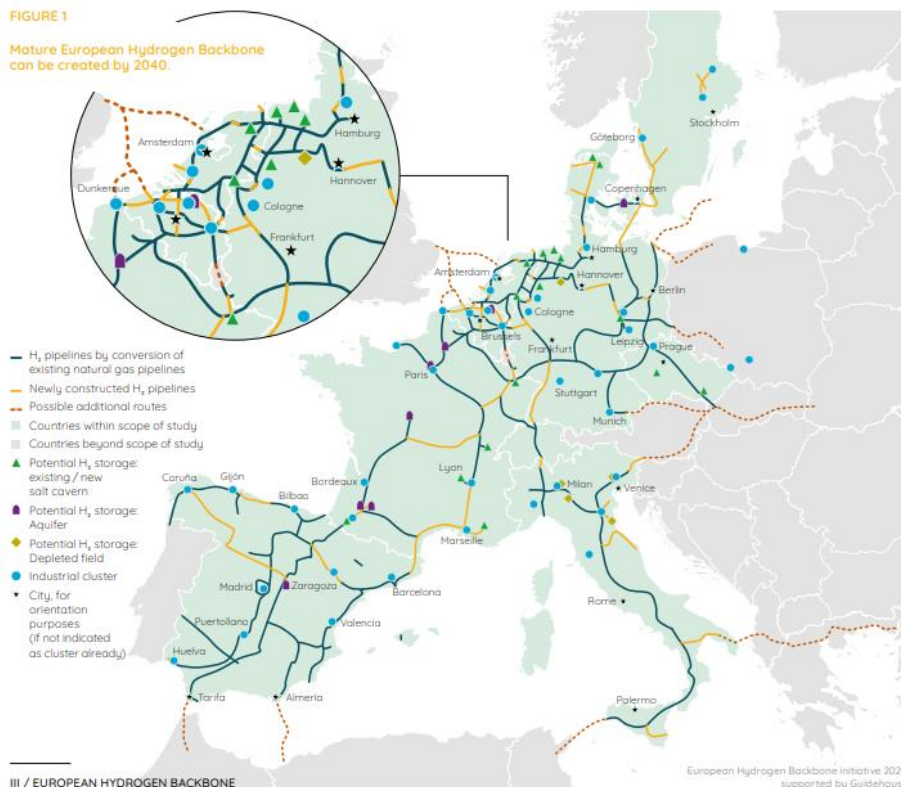
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Appendix: The European hydrogen backbone corridors

FIGURE 1

Mature European Hydrogen Backbone can be created by 2040.



Corridor A — North Africa & Southern Europe

Corridor A would transport large quantities of cost-competitive green hydrogen potential from Tunisia and Algeria through Italy to central Europe leveraging existing gas infrastructure. Corridor A would decarbonise existing industries along the route in Italy and Central Europe as well as in Germany.

Corridor B — Southwest Europe & North Africa

Corridor B would transport green hydrogen supply from the Iberian peninsula and North Africa, and gain access to underground storage sites in France to deliver stable hydrogen supply. Corridor B would decarbonise regional industry and transport clusters in Portugal, Spain, France and Germany.

Corridor C — North Sea

Corridor C includes hydrogen supply from ongoing and planned offshore wind, blue hydrogen and large-scale integrated hydrogen projects in the North Sea. Corridor C would meet demand from industrial clusters and ports in the UK, the Netherlands, Belgium and Germany.

Corridor D — Nordic and Baltic regions

Corridor D would transport green hydrogen supply potential from onshore and offshore wind from countries surrounding the Baltic Sea. Corridor D would be built around regional networks around industrial clusters, serving numerous new green steel, e-fuel, fertilizer and green chemicals projects in the Nordics as well as decarbonizing existing industry in the Nordics, Baltics, Poland and Germany along the corridor route.

Corridor E — East and South-East Europe

Corridor E would connect high supply potential regions such as Romania, Greece, and Ukraine¹ — leveraging vast land availability and high-capacity factors for solar and wind. Corridor E would deliver hydrogen to off-takers in Central Europe and Germany.

¹ While Ukraine is expected to be a hydrogen-exporting region, there is significant uncertainty related to Russia's invasion of Ukraine and its impact on Ukraine's gas infrastructure and economic development.

Source: EHB

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