

NORDIC-BALTIC HYDROGEN CORRIDOR

NBHC

BACKGROUND

The Gas Transmission System Operators are leading the development of the Nordic-Baltic Hydrogen Corridor (NBHC)



PRE-FEASIBILITY STUDY

The TSOs commissioned this study to define key conditions for the implementation of the **NBHC** for the transport of renewable hydrogen between Finland, the Baltics, Poland and Germany.



THE **NBHC** WILL PLAY A SIGNIFICANT ROLE IN CONNECTING RENEWABLE HYDROGEN PRODUCTION TO HYDROGEN DEMAND ENABLING DECARBONISATION TARGETS TO BE MET

~ 2.7 Mt H₂/y
HYDROGEN THROUGHPUT
BY 2040

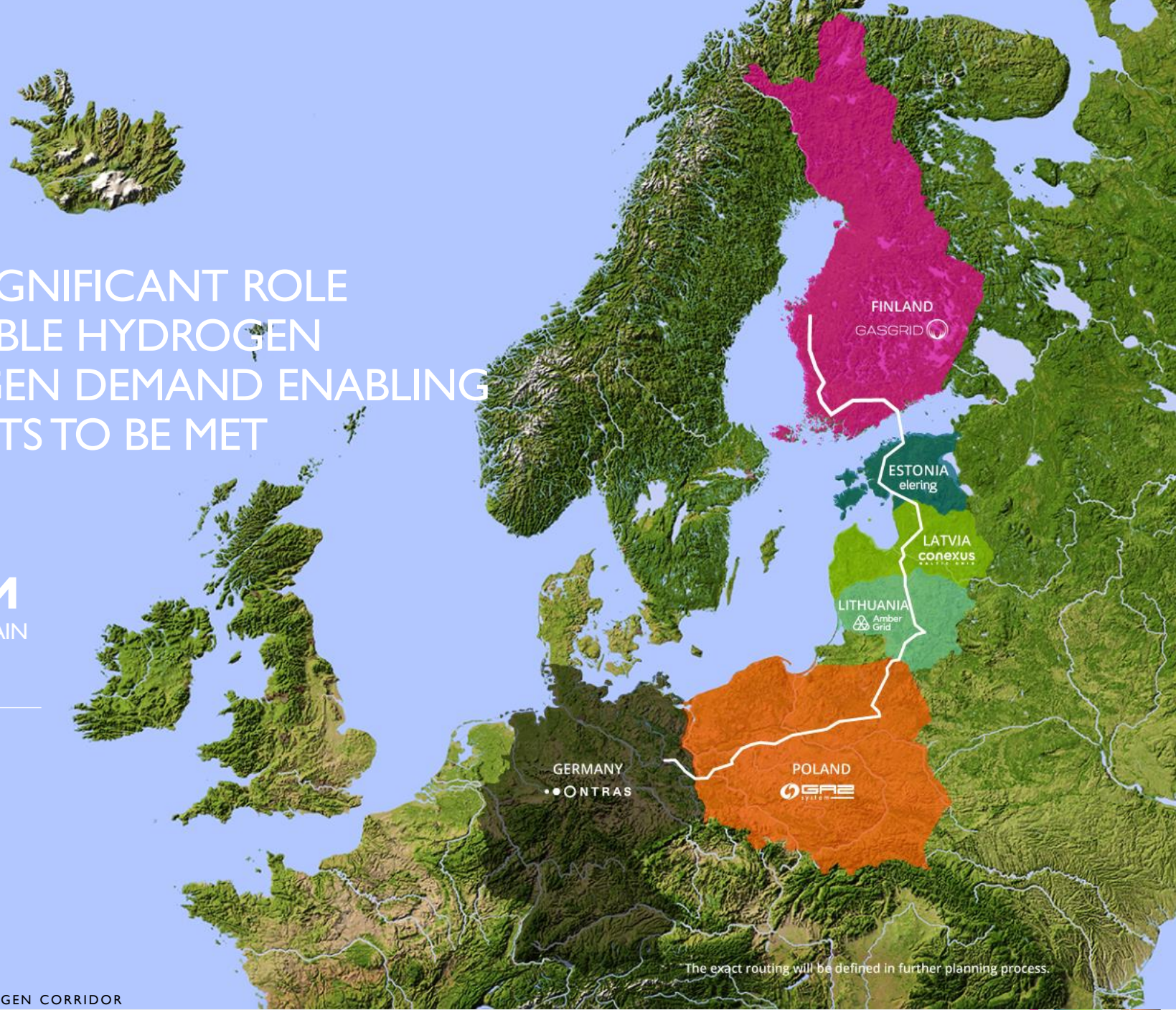
~ 2,500 KM
TOTAL LENGTH OF MAIN
PIPELINE

6

EUROPEAN COUNTRIES

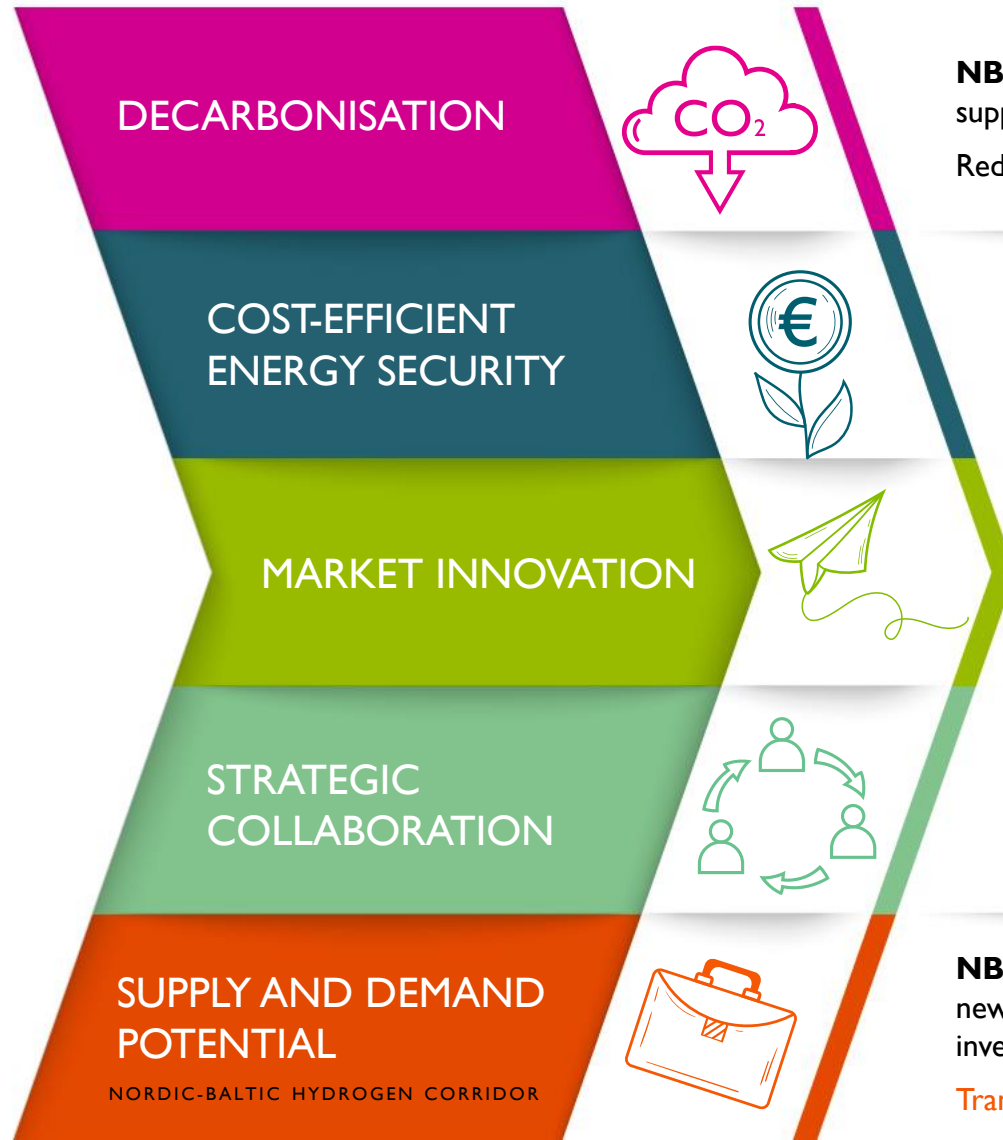


PCI
STATUS



The exact routing will be defined in further planning process.

INTEGRATING RENEWABLE H2 THROUGH A PIPELINE IS A COST-EFFICIENT SOLUTION TO DECARBONISATION, OFFERING SECURITY AND DIVERSITY OF SUPPLY



DECARBONISATION



NBHC will integrate clean hydrogen across six member states, supporting EU and national hydrogen and decarbonisation goals.
Reduction in carbon emissions of up to 37 MtCO₂ eq/year by 2050.

COST-EFFICIENT
ENERGY SECURITY



The **NBHC** brings a cost effective and flexible solution to address the European supply diversity and energy security needs towards the European energy transition ambitions.

MARKET INNOVATION



The **NBHC's** flexible hydrogen balancing techniques will benefit the EU energy market, provide flexibility to major hydrogen markets and reduce the project costs.

Connecting 4 TWh of renewable energy storage to EU by 2040.

STRATEGIC
COLLABORATION



The **NBHC** bases on regional cooperation between six member states. Stakeholder engagement is a key for developing infrastructure, balancing mechanisms and project support.

SUPPLY AND DEMAND
POTENTIAL



NBHC is the solution to connect indigenous clean hydrogen potential and new demand together to meet ambitious goals while facilitating new investments across the hydrogen value chain.

Transporting up to ~4 Mt/year (128 TWh) of H₂ by 2050.

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