SouthCorridor

Our connection for a clean future

The SouthH₂ Corridor is a 3,300 km dedicated hydrogen pipeline corridor led by the TSOs Snam, TAG, GCA and bayernets.

General description

The SouthH$_2$ Corridor is a 3,300 km dedicated hydrogen pipeline corridor led by the TSOs Snam, TAG, GCA and bayernets. This important corridor connects North Africa, Italy, Austria and Germany, and enables the supply of low-cost renewable hydrogen produced in the South to key European clusters of demand. On 8th April 2024 the project entered 1st PCI/PMI List under the revised TEN-E Regulation published by the EU Commission.

The development of the SouthH$_2$ Corridor will guarantee security of supply and is crucial for the development of an interconnected and diversified hydrogen market. The corridor could deliver more than 40 % of the REPowerEU import target. The initiative is centred around the utilisation of existing repurposed midstream infrastructure that enables cost effective transportation of hydrogen (>65 %).

The corridor has gained endorsement from institutions as well as strong support from companies across the entire value chain along the whole route. Renewable hydrogen would be largely produced in North Africa, for which the partners have collected signed letters of support from producers for 2,5 Mtpa. It would then flow north, serving European hard-to-abate demand clusters. As a testament to its relevance at European level, the Energy Ministries of Algeria, Tunisia, Italy, Austria and Germany signed a Joint Declaration of Political Intent for the development of the Southern Hydrogen Corridor in January 2025.

The SouthH$_2$ Corridor consists of the following individual PCI projects:

- **Italian H$_2$ Backbone** promoted by Snam Rete Gas S.p.A.
- **H$_2$ Readiness of the TAG pipeline system** promoted by TAG GmbH
- **H$_2$ Backbone WAG + Penta-West** promoted by Gas Connect Austria GmbH
- **HyPipe Bavaria – The Hydrogen Hub** promoted by bayernets GmbH

Benefits

- **Significant transport capacity for hydrogen** while utilising mainly existing infrastructure
- Repurposed natural gas pipelines are the **most effective, competitive and sustainable transport method**
- **Providing Central Europe with significant amount of affordable energy** by unlocking very low-cost green hydrogen with a vast potential
- **Serving** the largest hydrogen **demand clusters** in central Europe
- **Enables CO$_2$ savings** in all countries along the entire route
- **Important contribution to** achieving European and national **climate goals**
- **Foster security of supply** with hydrogen through connections to storages along the entire route
- **Diversification of import routes**

GAS CONNECT AUSTRIA
Energy, everywhere.

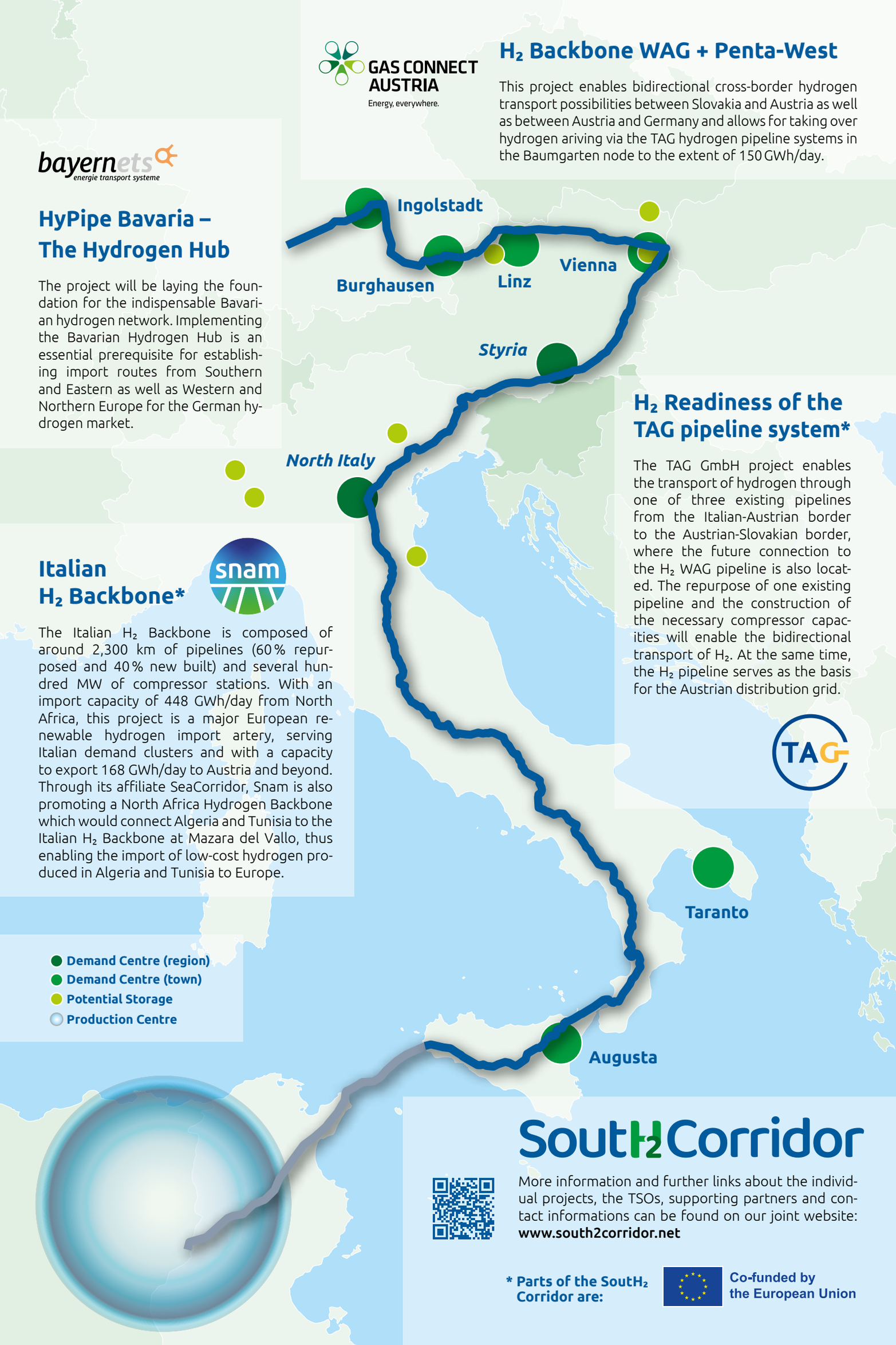
H_2 Backbone WAG + Penta-West

This project enables bidirectional cross-border hydrogen transport possibilities between Slovakia and Austria as well as between Austria and Germany and allows for taking over hydrogen ariving via the TAG hydrogen pipeline systems in the Baumgarten node to the extent of 150 GWh/day.

bayernets
energie transport systeme

HyPipe Bavaria – The Hydrogen Hub

The project will be laying the foundation for the indispensable Bavarian hydrogen network. Implementing the Bavarian Hydrogen Hub is an essential prerequisite for establishing import routes from Southern and Eastern as well as Western and Northern Europe for the German hydrogen market.



H_2 Readiness of the TAG pipeline system*

The TAG GmbH project enables the transport of hydrogen through one of three existing pipelines from the Italian-Austrian border to the Austrian-Slovakian border, where the future connection to the H_2 WAG pipeline is also located. The repurpose of one existing pipeline and the construction of the necessary compressor capacities will enable the bidirectional transport of H_2. At the same time, the H_2 pipeline serves as the basis for the Austrian distribution grid.

TAG

Italian H_2 Backbone*

snam

The Italian H_2 Backbone is composed of around 2,300 km of pipelines (60 % repurposed and 40 % new built) and several hundred MW of compressor stations. With an import capacity of 448 GWh/day from North Africa, this project is a major European renewable hydrogen import artery, serving Italian demand clusters and with a capacity to export 168 GWh/day to Austria and beyond. Through its affiliate SeaCorridor, Snam is also promoting a North Africa Hydrogen Backbone which would connect Algeria and Tunisia to the Italian H_2 Backbone at Mazara del Vallo, thus enabling the import of low-cost hydrogen produced in Algeria and Tunisia to Europe.

- Demand Centre (region)
- Demand Centre (town)
- Potential Storage
- Production Centre

SouthH2Corridor

More information and further links about the individual projects, the TSOs, supporting partners and contact informations can be found on our joint website:
www.south2corridor.net

* Parts of the SouthH2 Corridor are:

Co-funded by the European Union