



### **Our company**

bayernets GmbH is the Bavarian transmission system operator.

he adquarters

Munich

foundation

**January 1st, 2007** 

number of employees

**150** 

(status 31.12.2023)

shareholder

Bayerngas GmbH (59,1 %)

**Stadtwerke München GmbH** (32,4 %)

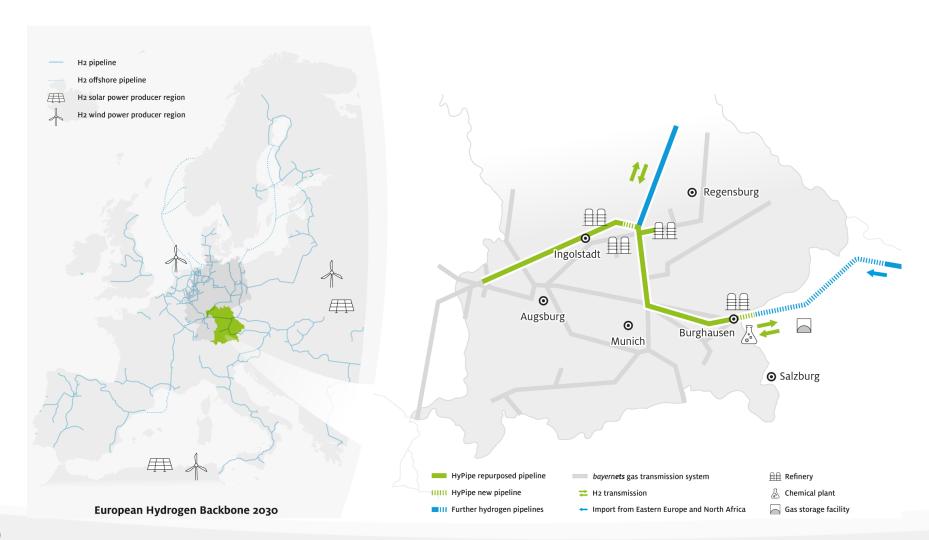
**Stadtwerke Augsburg Holding GmbH** (8,5 %)







## The future South Bavarian hydrogen transmission network









### The German hydrogen core network

- first stage of hydrogen ramp-up

# Goal: fast and cost-efficient establishment of a nationwide and expandable hydrogen core network

- Top-down-approach to hydrogen requirements
- Planned commissioning by December 31, 2032 with the option of timely flexibilisation until 2037\*
- Obligation of the pipeline operators to cooperate
- Consultation of the hydrogen core network with the market



Draft presentation of the German Core Hydrogen Network, Source: BMWK 2023

<sup>\*</sup>Status: 9.04.2024; Compromise of the German coalition (SPD, Grüne, subject to the approval of the Free Democrates) on the 5th April 2024





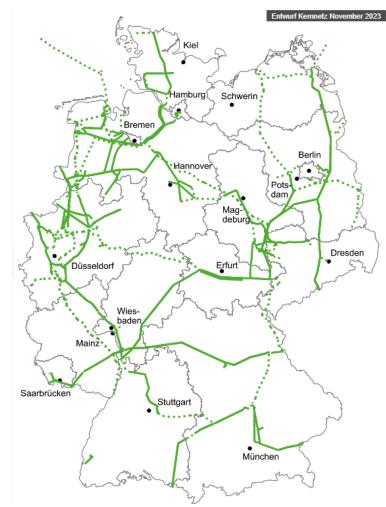


#### The German hydrogen core network

- first stage of hydrogen ramp-up

# Requirements for the inclusion in the hydrogen core network (Energy Industry Act)

- Necessary to establish a European hydrogen network
- Necessary grid for connecting areas of high industrial demand, hydrogen power plants, hydrogen ready power plants, hydrogen storage and hydrogen generation plants or
- Improving the integration of hydrogen import points or electrolysers



Key data for the design of a core network

Source: FNB Gas 2023







### Important steps towards the realisation of the hydrogen core network

- Hydrogen needs were used to design the core network
- No prioritisation of reported hydrogen inquirements
- Core network grid projects with planned commissioning after 2027 will be examined in the integrated network planning (gas and hydrogen)
- Submission of the application for the H2 core grid by the TSOs (21. May 2024) followed by a short consultation perio
- Approval of the core network (summer 2024)
- After the authorisation by the federal network agency (BNetzA) the network operators could start building the infrastructure







# South Corridor

- Led by the TSOs: Snam, TAG, GCA and bayernets
- Each individually submitted Project of Common Interest (PCI) applications
- The corridor connects North Africa, Italy, Austria and Germany
- The SoutH<sub>2</sub>Corridor enables the import of low-cost renewable hydrogen from Algeria (138-149 €/MWh) and Tunisia (148-156 €/MWh)









### Diversification of national import routes

- Market demand of hydrogen in 2030:
  - National hydrogen demand of 95-130 TWh
  - Bavarian hydrogen demand of 30.6 TWh
- National import demand of around 45-90 TWh (50-70 %) in 2030
- SoutH<sub>2</sub>Corridor establishes the necessary import route:
  - Length 3,300 km
  - More than 70 % repurposed pipelines
  - > 4 Mtpa green hydrogen potential 2030
  - In operation in 2030







#### **Contact and further information**



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H<sub>2</sub> für Bayern