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Providing Hydrogen Infrastructure to Enable Decarbonization in Hamburg - One of Europe's Largest Industrial Hubs



## Hydrogen Network Hamburg: covering the whole hydrogen value chain

**Production** of green hydrogen



Use of green H2 in Industry, Logistics and Mobility

All areas of mobility represented: **road**, **rail**, **water**, **air** 





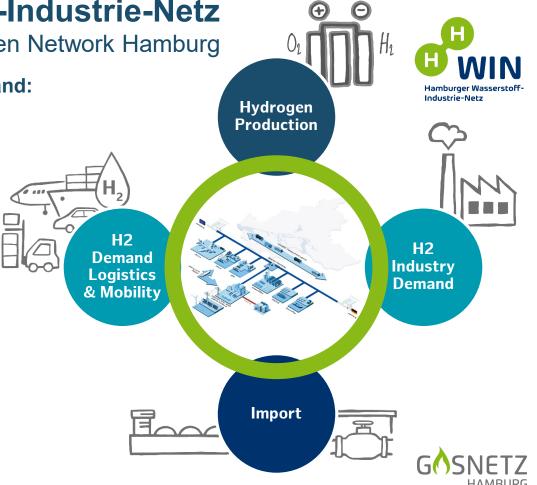
Hamburger Wasserstoff-Industrie-Netz

Combining Element of the Hydrogen Network Hamburg

## **HH-WIN** connects H2 supply and demand:

- Industrial Sector
   e.g. ArcelorMittal, Airbus
- Local Production at former coal power plant site
- H2 Import via Sea
- H2 Import via Pipeline
   European Hydrogen Backbone
- Logistics and Mobility Sector
- further IPCEI projects

Hydrogen Infrastructure enables **scale-up** of a true and flexible **hydrogen ecosystem** 

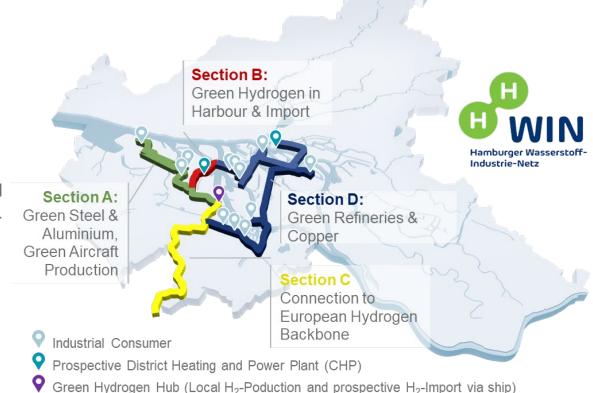


**HH-WIN**: Wasserstoff-Industrie-Netz

Sections A - D

New Hydrogen Distribution
 Network for Industry, heavy
 haulage and port logistics
 (>200 customers with 7,6 TWh)

- with 60 km hydrogen pipeline around one third of Hamburg's natural gas consumption can be replaced, i.e.
   570 Mio. m³ natural gas p.a.
   (6,4 TWh at 14 industrial sites)
- yearly CO<sub>2</sub> reduction potential approx. 1,2 Mio. tons of CO<sub>2</sub> at 14 industrial sites over 1,4 Mio. tons of CO<sub>2</sub> for all segments > 200 customers





## **Further Information**

https://future.hamburg/en/environment-friendly-hydrogen-region



https://www.gasnetz-hamburg.de/fuer-die-zukunft/wasserstoff/hh-win

