

2. Mitteldeutscher Wasserstoffkongress
16. September 2022 | Flughafen Leipzig/Halle

greenRoot

Grüner Wasserstoff für eine emissionsfreie Zukunft
in Mitteldeutschland

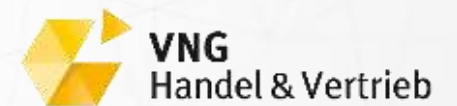
Cornelia Müller-Pagel, Leiterin Grüne Gase, VNG AG
Joost Sandberg, Business Development Manager Hydrogen HyCC B.V.



HYPOS HYDROGEN POWER STORAGE & SOLUTIONS EAST GERMANY

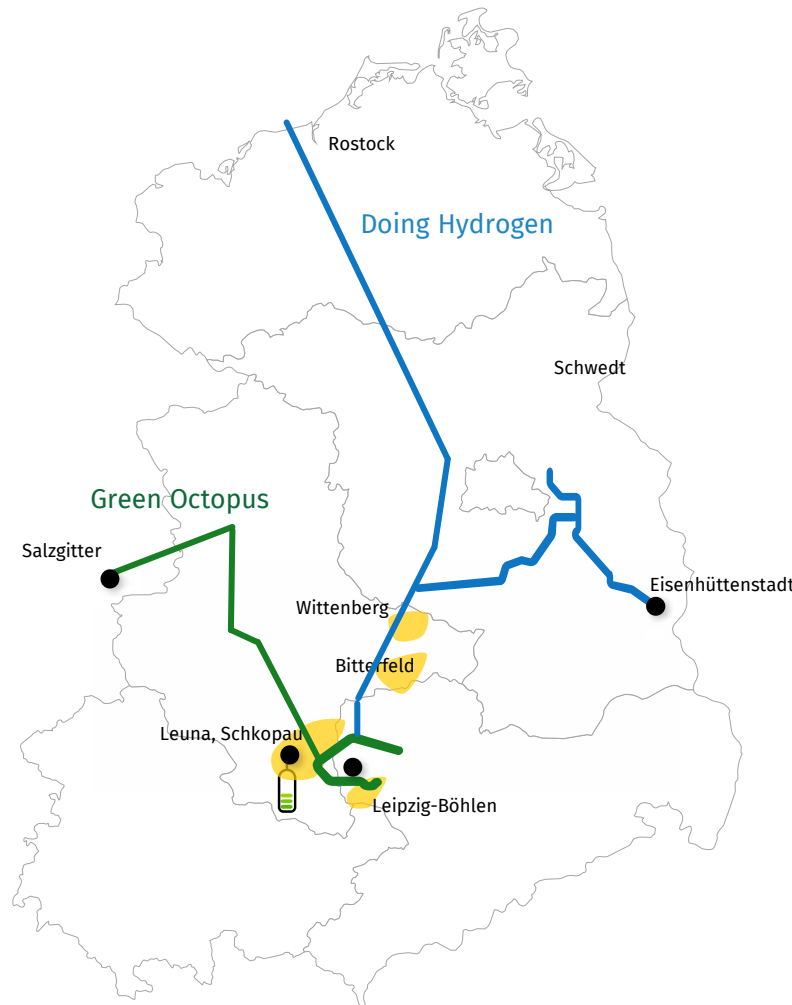


METROPOLREGION
MITTELDEUTSCHLAND



The challenge of decarbonisation in Central Germany

- Grey hydrogen is already being used industrially on a large scale in Central Germany today.
- **Large quantities of green hydrogen** will be needed to supply **industry** by 2030
- In the long term, moreover, green hydrogen will be needed for **mobility and for energy and heat supply**
- For this, **hydrogen production** based on renewable energy is needed on a large scale in the region.



Recently in the “Potential Study Green Gases” calculated data ^[1]:

H₂ production potential (2040) in central Germany:

11 – 22 TWh

H₂ demand (2040) in central Germany:

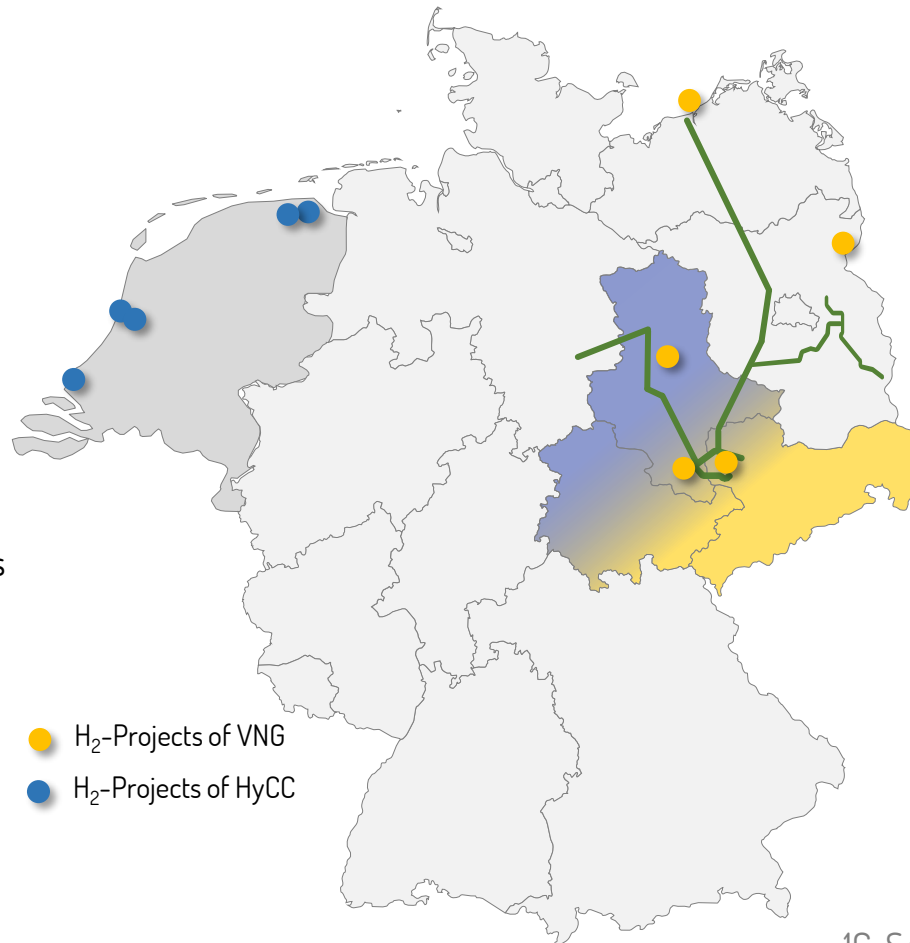
22 – 33 TWh

[1] Potenzialstudie Grüne Gase: Analyse und Bewertung der Potenziale Grüner Gase in der Innovationsregion Mitteldeutschland, 2022

VNG and HyCC have joined forces ramp up hydrogen production



- Joint venture of electrochemical company **Nobian** and **Macquarie's Green Investment Group**
- Fully focused on **Green Hydrogen** for **emission-free industries**
- **> 100 years** of experience in electrolysis
- **1 gigawatt** project portfolio



- Strong group of companies active in the **gas and gas infrastructure sector** with about 20 subsidiaries in Germany and Europe
- For **more than 60 years**, we have stood for security of supply in Germany
- Together we are now working on a sustainable, secure and increasingly **climate-neutral energy system** for the future





Grüner Wasserstoff für eine emissionsfreie Zukunft in Mitteldeutschland
Green Hydrogen for an emission-free future in Central Germany

HyCC

VNG
Humboldt & Voigt

VNG

**Strong
Partners
Connected for
Green
Hydrogen**