

Invest in



Niedersachsen



HYDROGEN.

Everyone is talking about it.

Niedersachsen is making it happen.

Niedersachsen Ministry for Economic Affairs,
Transport and Housing

Hydrogen in Niedersachsen.





Key

-  Seaport
-  Airport
-  Motorway
-  River/canal
-  Changeover pipeline
-  New construction pipeline
-  Filling station
-  Cavern storage
-  Power to gas facility
-  Hydrogen technology provider
-  HyLand project
-  Real-world laboratories for the energy transition
-  IPCEI hydrogen projects (Important Project of Common European Interest)
-  Other hydrogen project
-  Research and development institution
-  State institutions, clusters and regional network



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Niedersachsen offers ideal conditions for building a large-scale hydrogen economy: abundant wind and solar energy for green hydrogen, leading research institutions, strong industrial demand, excellent underground storage capacities, and strategically-located ports for global import and export.”

Grant Hendrik Tonne

Niedersachsen Minister for Economic Affairs, Transport and Housing

Niedersachsen is powering the hydrogen future.



Niedersachsen generates more

renewable electricity

than it consumes.



The region has a strong industrial base with hydrogen applications:

mobility, steel, and chemicals.

> 20

research institutes from universities and non-university institutions are working on hydrogen solutions.

HY-5

Northern Germany joins forces for hydrogen.

The states of Bremen, Hamburg, Mecklenburg-Vorpommern, Niedersachsen and Schleswig-Holstein are working together under the HY-5 initiative to make northern Germany Europe's leading region for green hydrogen.



Active hydrogen networks and experienced companies foster

collaboration and innovation.

The goal:

a complete value chain, shared infrastructure, and strong international visibility.



Wilhelmshaven and Stade are emerging as



major hydrogen import and distribution ports.



800 MW

of electrolyzer capacity is planned by 2030.



Green hydrogen is already in use



powering trains, trucks, vessels, and industrial processes.

Excellent logistics infrastructure and commercial zones support **hydrogen deployment.**



Niedersachsen offers top expansion potential

for onshore and offshore wind and solar energy.



Around **2.5 billion €** in IPCEI funding supports large-scale hydrogen projects in the region.



40% of Europe's underground storage capacity is located in Niedersachsen's salt caverns, ready to store hydrogen.



Don't hesitate to get in touch.

Our contact partner would love to explore options with you:

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Successful hydrogen projects in Niedersachsen.



RWE Hydrogen Pilot in Lingen

RWE operates a 14 MW pilot electrolyzer in Lingen, testing both alkaline and PEM technologies. The plant lays the foundation for scaling up to 300 MW and supports industrial decarbonisation.



Hydrogen train in Niedersachsen

The world's first passenger train powered by hydrogen fuel cells, producing zero emissions. It operates on regional routes with a range of up to 1,000 kilometres, combining innovation with eco-friendly mobility.

STORAG ETZEL H₂CAST Under- ground Storage

STORAG ETZEL is testing hydrogen storage in salt caverns near Wilhelmshaven. The pilot project will enable seasonal storage and secure supply for large-scale hydrogen use.



Hydrogen Terminal Braunschweig

This innovation hub combines electrolysis, fuel cell testing, and hydrogen refuelling infrastructure. It supports R&D and real-world applications for heavy-duty transport and industry.



Turneo/ Entec

Green Hydrogen for Shipping

In Cuxhaven, Turneo and Entec operate a 2 MW electrolyzer supplying green hydrogen to ships and local refuelling stations. The project supports clean maritime mobility.

SALCOS

Green Steel from Salzgitter AG

SALCOS® is transforming steel production by replacing coal with green hydrogen. A 100 MW electrolyzer will supply hydrogen for low-emission steelmaking starting in 2026.

EWE

Clean Hydrogen Coastline

EWE is developing a large-scale hydrogen ecosystem in northwest Niedersachsen, including a 320 MW electrolyzer in Emden and underground cavern storage in Huntorf.

The project aims to produce, store, and distribute green hydrogen across sectors.



For more
information about

Hydrogen projects

in Niedersachsen

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**www.invest-in-niedersachsen.com/hydrogen
www.mw.niedersachsen.de**

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