

HYDROGEN REGION

ELBE-WESER



Welcome to our hydrogen region

In the five districts between the Elbe and Weser, a molecule that will transform the energy transition has already found its home: the hydrogen molecule. In order to achieve the climate targets, hydrogen technology can reduce CO₂ emissions across sectors. Renewable energies in the form of wind power, biomass and photovoltaics are already playing an increasingly important role in the Elbe-Weser region and form a perfect symbiosis with the existing storage facilities and pioneering companies based here to build an effective and efficient hydrogen economy.

Did you know that the world's first hydrogen train is in regular service here? Or that vehicles for climate-neutral freight transport are already being built here? Together with the Northeast Lower Saxony Hydrogen Network (H2.N.O.N) with its more

than 120 members, we have committed ourselves to a more climate-friendly energy supply in northeastern Lower Saxony.

I would like to invite you to get in touch with our innovative hydrogen region, which can cover the entire value chain from production, the use and storage. Please feel free to use this brochure, which we have built as a modular system. So if you would like to visit us as part of a delegation trip or other exchange, we can create a program tailored to your needs based on the modules described here. We look forward to exchanging ideas with you!

Yours, Christoph von Speßhardt

Managing Director of the Elbe-Weser Chamber of Industry and Commerce

Example theme days

Day 1: Hydrogen on land

Time	Topic
■ 08:00 - 09:00	Breakfast at the hotel
■ 09:00 - 09:20	Transfer from the hotel to the Elbe-Weser Chamber of Industry and Commerce
■ 09:20 - 10:00	Presentation H2. N.O.N (Part I): Report on the network, origin and direction
■ 10:00 - 10:20	Project in Focus: Wohlsdorf Electrolysis - Power-to-Gas
■ 10:30 - 11:00	Transfer to Wohlsdorf
■ 11:00 - 12:00	Visit to the plant in Wohlsdorf
■ 12:00 - 13:00	Lunch
■ 13:00 - 13:30	Transfer to Bremervörde
■ 13:30 - 15:30	Project in focus: Eisenbahnen und Verkehrsbetriebe Elbe-Weser GmbH (Railwaycompany) - The world's first hydrogen-powered scheduled train
■ 15:30 - 16:00	Ride on the hydrogen train to Buxtehude
■ 16:00 - 16:30	Journey from Buxtehude to Stade
■ 17:00 - 18:30	Presentation H2. N.O.N (Part II): Members of the network introduce themselves
■ ab 18:30	Transfer to dinner

Day 2: Hydrogen on the coast

Uhrzeit	Thema
■ 08:00 - 09:00	Breakfast at the hotel
■ 09:00 - 10:30	Transfer from the hotel to Cuxhaven
■ 10:30 - 12:00	Project in focus: Siemens Gamesa - Construction of offshore wind turbines (21 MW) and electrolysis project "H2Move"
■ 12:00 - 13:00	Lunch
■ 13:00 - 14:00	Project in Focus: Clean Hydrogen Coastline – Building a Nationwide H ₂ Economy
■ 14:00 - 16:30	Transfer back to Stade
■ 16:30 - 18:30	Projects in focus: Hanseatic Energy Hub - LNG terminal / FSRU (hydrogen ready) and Dow Deutschland Anlagengesellschaft mbH Stade plant - Production of 50,000 tons of hydrogen per year as a by-product / Project "Green MeOH"
■ 18:30 - 19:30	Supper
■ ab 20:00	City tour of the old town of Stade

Costs: approx. 800 euros/day for the bus transfer plus 15 euros/person for the train rides, food not included

Exact cost calculations are made by arrangement

Actual program schedule subject to the time availability of the companies / institutions

Building blocks for delegations on hydrogen

Visits / Lectures

Topic: Composites United Nord – Light-weight construction with carbon fiber and other composites

Duration: 120 min

Location: Stade

Topic: Siemens Gamesa - Construction of wind turbines (11 MW for the offshore sector) and electrolyser with filling station

Project title: OffsH2ore / M2Move

Duration: 120 min

Location: Cuxhaven

Topic: Viebrockhaus AG – Energiequartier Harsefeld

Project title: Smart City

Duration: 60 min

Location: Harsefeld

Topic: ENGINEIUS GmbH – Europe's first vehicle manufacturer with EU type approval for electrically powered trucks with hydrogen fuel cell system

Duration: 90 min

Location: Bremen

Topic: Hanseatic Energy Hub - LNG Terminal/FSRU (hydrogen ready) / Dow Deutschland Anlagengesellschaft mbH Stade plant - Production of 50,000 t of grey hydrogen per year as a by-product + green methanol

Project title: Green MeOH

Duration: 120 min

Location: Stade

Topic: evb Elbe-Weser GmbH - The world's first hydrogen train fleet

Project title: Coradia iLint

Duration: 120 min

Location: Bremervörde / Buxtehude

Topic: Mulsum community wind farm - Convert electricity generated with wind and solar energy into hydrogen by electrolysis to supply H₂ filling stations

Project title: H24Stade

Duration: 20-30 min presentation, 60 min on-site visit

Location: Stade / Mulsum

Round Table

Topic: Green Fuels GmbH – Implementation of H₂ projects in the field of mobility

Duration: 30 min

Location: Stade

Topic: Clean Hydrogen Coastline – Building a nationwide H₂ economy

Duration: 60 min

Location: Stade

Topic: ITZ Nord – Innovation and start-up centre for start-ups, those interested in founding a company and SMEs in the H₂ area

Duration: 20 min

Location: Stade

Topic: Air Products – Development, production, transport, installation as well as supply and operation of hydrogen technologies

Duration: 60 min

Location: Stade

Topic: Members of the Bundestag of the region – The hydrogen strategy of the Federal Republic of Germany

Duration: 30 min

Location: Stade

Topic: Lars Bobzien, Lower Saxony Ministry of Economic Affairs, Transport, Building and Digitalisation – The North German Hydrogen Strategy NDWS

Duration: 30 min

Location: Stade

Topic: Demand for skilled workers in the field of hydrogen: The IHK certificate course hydrogen

Project title: H2Skills

Duration: 30 min

Location: Stade

Topic: Hydrogen storage in existing gas storage facilities

Project title: SaltHy

Duration: 20-30 min

Location: Stade

Topic: EFZN Energy Research Center Lower Saxony – Establishment of a research network

Duration: 30 min

Location: Stade

Topic: Hydrogen Network Northeast Lower Saxony – Members of the network introduce themselves

Project title: H2. N.O.N.

Duration: 90 min

Location: Stade

Topic: Hydrogen Network Northeast Lower Saxony - Report on the Network, Origin and Direction

Project title: H2.N.O.N.

Duration: 30 min

Location: Stade

Topic: H₂ Mobility – Construction of hydrogen filling stations

Duration: 60 min

Location: Stade

Event modules (selection)

Topic: Guided tour in the historic old town

Location: Stade

Topic: Tiedenkicker – boat tour on the Elbe and visit to the industrial port

Location: Stade

Topic: Cuxliner - City Tour

Location: Cuxhaven

Topic: Wind force 10 – Wreck and Fishing Museum

Location: Cuxhaven

Hotels that can be reached by bus

Stade

havenhostel Stade, * * *

Parkhotel Stader Hof, * * * * Superior

Cuxhaven

havenhostel Cuxhaven, * * *

B&B Hotel Cuxhaven, * * *

Bremervörde

Oste Hotel, * * * Superior

Contact

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