

NorthH₂

Europe's largest green hydrogen project starts in Groningen

A consortium of Gasunie, Groningen Seaports and Shell Nederland has launched ambitious NorthH2 green hydrogen project

NorthH2 vision:

- Energy from source to customer – from renewable power to green hydrogen distribution – where different partners can collaborate on achieving the scale to realise this ambition.
- New wind farms in North Sea feed a mega-hydrogen facility in Eemshaven, possibly complemented with offshore hydrogen production.
- The ambition is to generate around 3 to 4 GW of wind energy for hydrogen production before 2030, possibly 10 GW around 2040.
- Green hydrogen production of 800,000 tonnes, avoids around 7 megaton CO₂ emissions annually.
- Gasunie infrastructure transports green hydrogen to industrial customers in the Netherlands and Northwest Europe.
- A large green hydrogen buffer provides the necessary flexibility because solar and wind energy are susceptible to fluctuations.
- Province of Groningen becomes the European centre of green hydrogen production and a European example as the first European Hydrogen Valley.
- The investments in NorthH2 can create thousands of jobs in the northern Netherlands.
- The project starts with a feasibility study that the consortium expects to conclude by the end of this year.