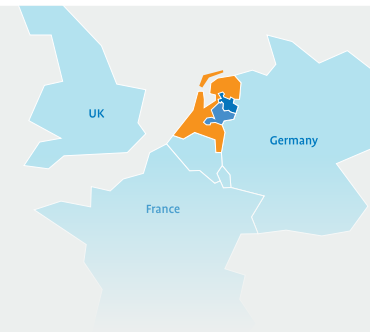




# A complete hydrogen value chain

In East Netherlands we have a complete hydrogen value chain with R&D, testing & certification, pilot facilities and fuel stations. This gives you the advantage of not only finding pioneering crossovers from hydrogen technology to building and industrial applications but also top-class research programs. Join our strong network of global businesses, research institutes and universities, SME's, engineering companies, field labs and business communities all working together in the hydrogen value chain.



## Business climate



East Netherlands has a thriving business climate where companies can grow their business. With a focus on start-ups and scale-ups as well as advanced applied science, it enables companies to benefit from the critical mass to lower the time to market, reduce CAPEX and operational costs and share facilities, programs and an extensive international network as well as getting access to funding.



### Markets

Fuel Cell Market, Hydrogen Production Systems, Hydrogen Heat Systems, Hydrogen Turbines, Hydrogen Tank stations, Heavy Duty Vehicle Industry, Building Industry, IoT applications, etc.



### Companies

DNV GL, VDL Energy Systems, GE Power, Nedstack, Hymove, Hyet, CESI Kema Labs, Allego, Ansaldo Turbines, Opra Turbines, Vattenfall, Veolia, Nouryon, TÜV Rheinland, Kiwa, Dekra, HyET, HyGear, HyMatters, Witteveen+Bos, Mysa, Lagerweij, Remeha, Nefit Bosch, Elestor, Urban Mobility Systems (UMS), etc.



## New technologies

Joint research programs with top-class research institutes represented by Technical University Delft, HAN Applied Sciences University, Technical University Twente, TNO Holst Institute, Saxion, New Energy Garden and Connectr are not only offering access to talent but also access to key research in the following areas:

- Chemistry & Material Science
- Energy Systems (Hydrogen Fuel Cells, Batteries)
- Automotive Fuel Systems
- (E-)Mobility
- Battery Storage
- Electrification of the industry
- Propulsion systems
- Integrated & decentral energy systems
- And many more.



**Most innovative country in the world**  
GII 2017-2020



## Market access

The East Netherlands is a gateway to European markets and international networks and institutes like Fraunhofer, Meet Münster and Jullich Forschungs Centre. The open market approach, business-friendly fiscal climate and a multilingual workforce are some of the key benefits for newly established companies.

East Netherlands is a region of living technology, making real-life testing of hydrogen technology possible. From lab testing to open test space, to public use and acceptance.

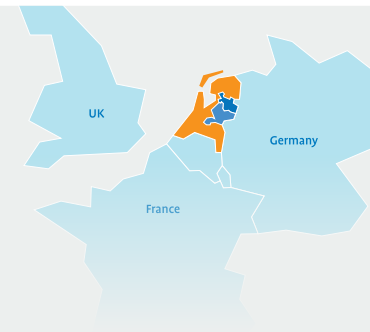
## East Netherlands:

### Value Chain Hydrogen Industry

- > 21 Partners
- > 7 Knowledge institutions
- > 40 Fieldlabs / Incubators
- > 92 SME's
- > 41 Engineering companies
- > 42 Organisations in Smart Cities Grids, Mobility, Manufacturing



# Oost NL has assisted over **900** companies for success in Europe



## Top talent



A total of six Universities including three Universities of Applied Sciences educate more than 120,000 multi-skilled talent for future challenges in the Energy Transition.

### Number of students, East Netherlands



**43,000**  
Universities



**85,000**  
Higher Professional Education



**104,000**  
Vocational Education

source: CBS, 2018/2019

Due to its advanced technology position in Europe, the East Netherlands attracts many international PhD students and researchers. Hosting three international schools, the region offers a quality setting for international talent workers and their families.



## Funding

Hydrogen, among other Key Enabling Technologies, and innovation are funding priorities within the European Union(EU). These funds are an important vehicle to connect our energy transition ecosystem to other important EU hotspots.

**80 billion**  
budget for cooperation in R&D through EU Horizon 2020 program

As an official partner of the Dutch and EU governments, Oost NL is a qualified intermediary in helping you to access EU, national and regional funding.

**255 million**  
regional participation fund

**100 million**  
innovation grants & incentives



## Business support

**Connectr**, a triple helix cooperation program in the energy technology, is in the process of the development of a new energy innovation facility of 12,000 m<sup>2</sup>. The facility will cover the value chain with R&D, education and shared test facilities, offices and meet & greet solutions to host energy-tech related companies and institutes and to support them in their plans. The facility is located in Arnhem, where most of the energy, tech and hydrogen related companies are located.

**Prime locations for establishment** are available at the industrial cleantech park Kleefse Waard (Connectr), Innofase Circular Park Duiven, High Tech Systems Park Hengelo, Polymer Science Park Zwolle, Kennispark Twente, New Energy Garden and H2 Hub Twente.

**Oost NL** and **KieMT** have access to large hydrogen and science related networks in the Netherlands and can help you with matchmaking. Additionally Oost NL and KieMT are in close co-operation with German partners like Meet Münster, Jülich Forschungs Centre, Fraunhofer.

## Oost NL - Your support for success in business

Oost NL is the economic development agency for East Netherlands. We have access to resources -funding, business partners and infrastructure, technological architecture and research partners -to help you succeed in establishing and growing your European business. If your strategic vision is global growth through European business development, Oost NL is your partner for success.

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