

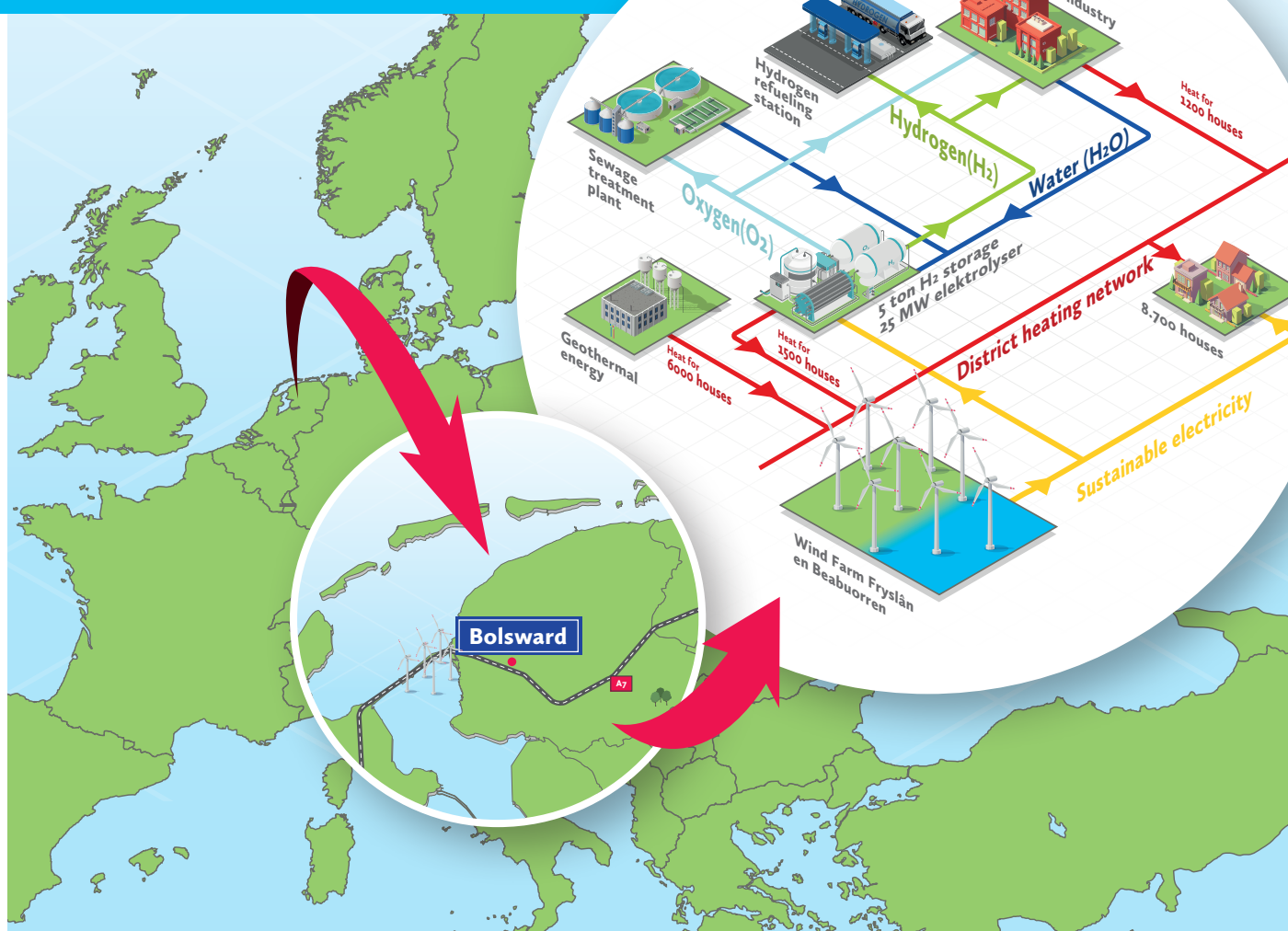
# Frisian Hydrogen

Heat for 8,700 homes

Energy from and for residents of Friesland

Strengthens the Northern Dutch hydrogen system

Bolsward has the strategic location, energy sources, and strong partner network for a successful energy transition. We use this energy to produce green hydrogen and to sustainably heat Bolsward. We are part of Interreg Unlock, RepowerEU and Heavenn. In Bolsward, we are working with an increasing number of partners on a profitable, integrated, circular energy system.



[sudwestfryslan.nl/energiestad](https://sudwestfryslan.nl/energiestad)

## Energy city Bolsward

Bolsward boasts a unique strategic location thanks to a valuable and extensive infrastructure. The A7 and N359 highways run alongside Bolsward, along with multiple waterways, electricity cables from two wind farms, and the future hydrogen backbone of the Netherlands. Bolsward is the central point where these energy systems converge. By connecting these systems, we can make the city, and even the region, free of natural gas.

The existing industry and the hydrogen hub supply residual heat to the district heating network, as does geothermal energy. Together with the electrolyzer and electricity from the wind farms, Bolsward has a unique and sustainable energy mix. With this, we can heat 8,700 homes and make Bolsward free of natural gas. It's a unique opportunity that more and more partners are joining.

## Hydrogen hub

There are two major sources of energy: the Fryslân and Beabuorren wind farms. The 25MW electrolyzer converts wind energy and water into hydrogen, oxygen, and heat. We store green hydrogen and use it for industry, filling stations, and businesses. Oxygen is directed to the sewage treatment plant (RWZI), Rentex, hospitals, and sales. Heat flows through the district heating network to homes and businesses.

## Goals

We are working towards national and European goals:

- 50 publicly accessible hydrogen refueling stations by 2025
- 500 megawatts of installed electrolysis capacity by 2025
- Scaling up to 3-4 gigawatts of electrolysis capacity by 2030
- 6 gigawatts of electrolysis capacity in Europe by 2024
- 40 gigawatts of electrolysis capacity in Europe by 2030

# Support us

Would you like to support Energy City Bolsward? Or would you like more information?

Please contact us by calling 14 0515 and asking for Duco Hartlief, or send an email to [sustainability@sudwestfryslan.nl](mailto:sustainability@sudwestfryslan.nl). We are working on a consortium to strengthen the Northern Dutch hydrogen system. We are doing this together with our partners:

- Elis
- Hochwald Foods
- Rentex
- UCC Coffee
- Sewage treatment plant
- Province of Fryslân
- University of Groningen
- New Energy Coalition
- HyNorth
- Centre of Expertise Water Technology

# Timeline

