H2V Valenciennes Project

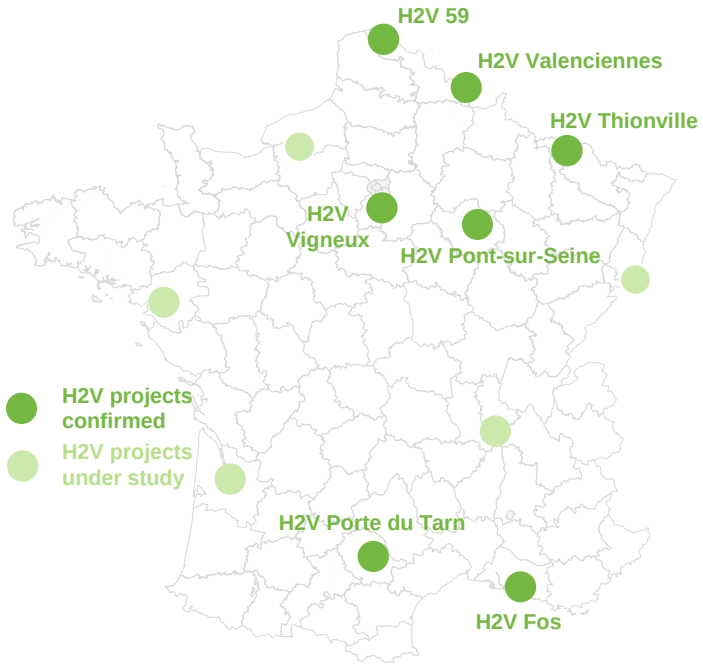
Renewable hydrogen Gigafactory
in the Hauts-de-France

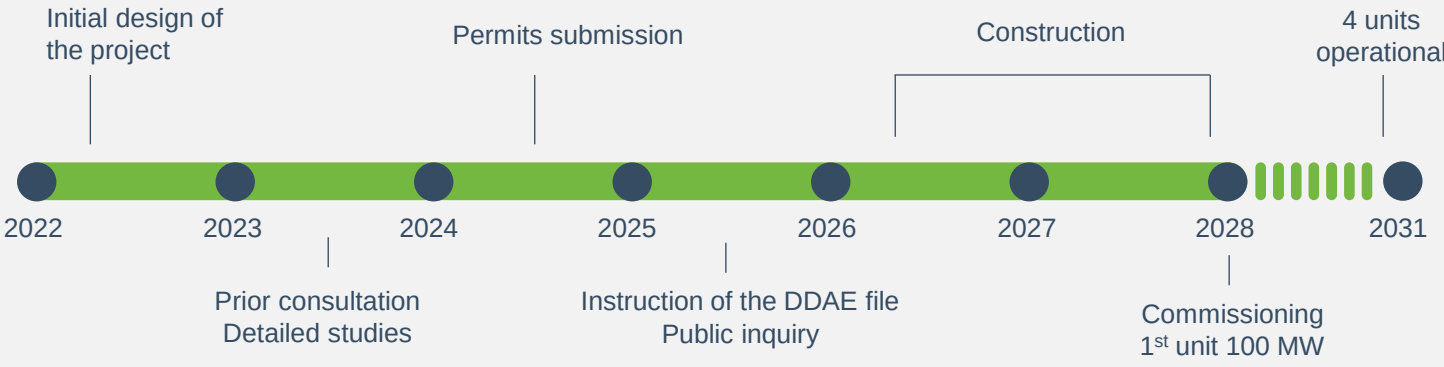
Since 2016 H2V met the challenge of mass-producing renewable hydrogen to replace grey hydrogen, decarbonize industry and heavy mobility, the main CO2 emitters. H2V has chosen to produce massively to optimize production costs and to develop a network of service stations to supply the entire country.

Located in the industrial area of the Valenciennes agglomeration, the project is part of an area where decarbonization is a major issue.

- 4 production units of 100 MW (= **400 MW**)
- **56 000 T** per year of renewable hydrogen produced by water electrolysis
- Commissioning in 2028
- Creation of around **200 jobs directs and indirect**
- Investment of around 500 to **550 millions euros**
- **560 000 tons of CO_2 avoided each year,**

or the emissions of 320 000 cars





H2V Valenciennes: a project connected to the future Franco-Belgian hydrogen network

The H2V Valenciennes project will be built in two 200 MW phases to keep pace with the gradual increase in needs. By 2050, more than 100,000 T of renewable H_2 will be needed to meet the challenges of decarbonizing industry and road freight transport in the Valenciennes and Hainaut provinces.

By linking these two areas, the open cross-border network proposed by GRTgaz and Fluxys will ensure supply to industrial consumers. This infrastructure will be the first building block of a European network (Hydrogen Backbone). H2V aims to reuse water from wastewater treatment plants to produce hydrogen on this site, thus forming part of a circular economy approach.