



PROJECT FACT SHEET

Green Octopus

Belgium-Netherlands-Germany

PROJECT BASIC INFO

Project Partners: Gasunie, Fluxys, Port Of Rotterdam, Port of Antwerp, Port of Zeebrugge, North Sea Port, Engie, Colruyt Group, VDL, Salzgitter, Bosch, EKPO.

Project Coordinator: WaterstofNet

Sponsor: Project partners

Start Date: October 2019

BACKGROUND

In December 2019, the European Commission presented the "European Green Deal" with the overarching objective to make Europe the first climate-neutral continent by 2050. The European Green Deal is the new growth strategy for Europe and the roadmap to realise a sustainable European economy. Hydrogen will play a key role in achieving these goals, in terms of making industry, the energy and mobility sectors more sustainable.

OBJECTIVES

The purpose of the Green Octopus project is to support achieving the Green Deal goals by creating a hydrogen backbone between Belgium - The Netherlands - Germany, with links to France and Denmark, serving clean hydrogen supply and demand, facilitated by the ports.

The main goal is to build up a complete cross-border value chain on clean, i.e., renewable and low-carbon, hydrogen, connecting upstream, midstream and downstream initiatives and developments.

PROJECT STRATEGY

APPROACH

The project consists of a combination of dedicated 'roll-out projects' and 'hydrogen transport trajectories', serving different application areas with hydrogen (mobility, chemicals, steel, heating, grid balancing, stationary and mobile applications).

the large-scale roll-out of projects in combination with renewable electricity and a large connecting hydrogen backbone is a completely new integrated concept for the cross-border cooperation in the EU.

MILESTONES

- Hydrogen backbone (2020 - 2030)
- Hydrogen infrastructure in ports (2020 - 2025)
- Onshore hydrogen production plant (2022 - 2030)
- Offshore hydrogen production (2025 - 2030)
- Interfaces/coupling hydrogen production to end-users (2020 - 2030)
- Development/innovation (2020 - 2030)

IMPACTS

Besides the positive impact on the environment, realisation of Green Octopus will significantly contribute to the development of a complete industrial value chain on hydrogen technologies in Europe. In anticipation of hydrogen becoming a globally traded commodity, Europe's industrial leadership in hydrogen technologies is an economic opportunity as well. In addition to profit for small- and large-scale businesses, European leadership in these technologies will also maintain and create jobs at all levels of society.