

H2FUTURE Green Hydrogen for the Steel Industry

- **Design and installation of a 6 MW Siemens PEM electrolyser system** at the voestalpine steel plant in Linz, Austria
- **Two-year demonstration** of the electrolyser system, including grid services by VERBUND and ambitious efficiency target



Photocredit: voestalpine

Project budget: €18 million

Total funding: €12 million from FCH JU

Project duration: 4.5 years

<http://www.h2future-project.eu>

Carbon2Product Austria – C2PAT

Scope

Creation of a novel carbon circular value chain stretching across the industrial sectors of energy, cement and chemicals. Green H₂ + CO₂ from cement production → renewable based plastics

Vision

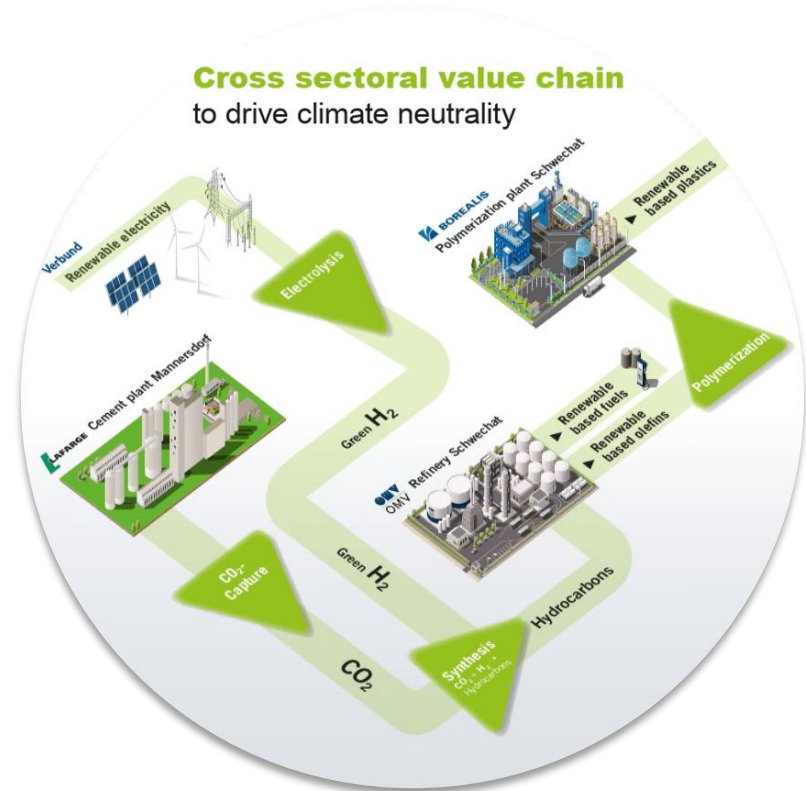
Complete use of the CO₂ emitted from Austria's largest cement factory for the production of renewable based products in 2030

Currently

- Refinement of technical concept
- Project development for a first demo plant which shall address the various technical, operational, regulatory and economic challenges.
- Acquisition of Co-Financing
- Partnering

Main Challenges

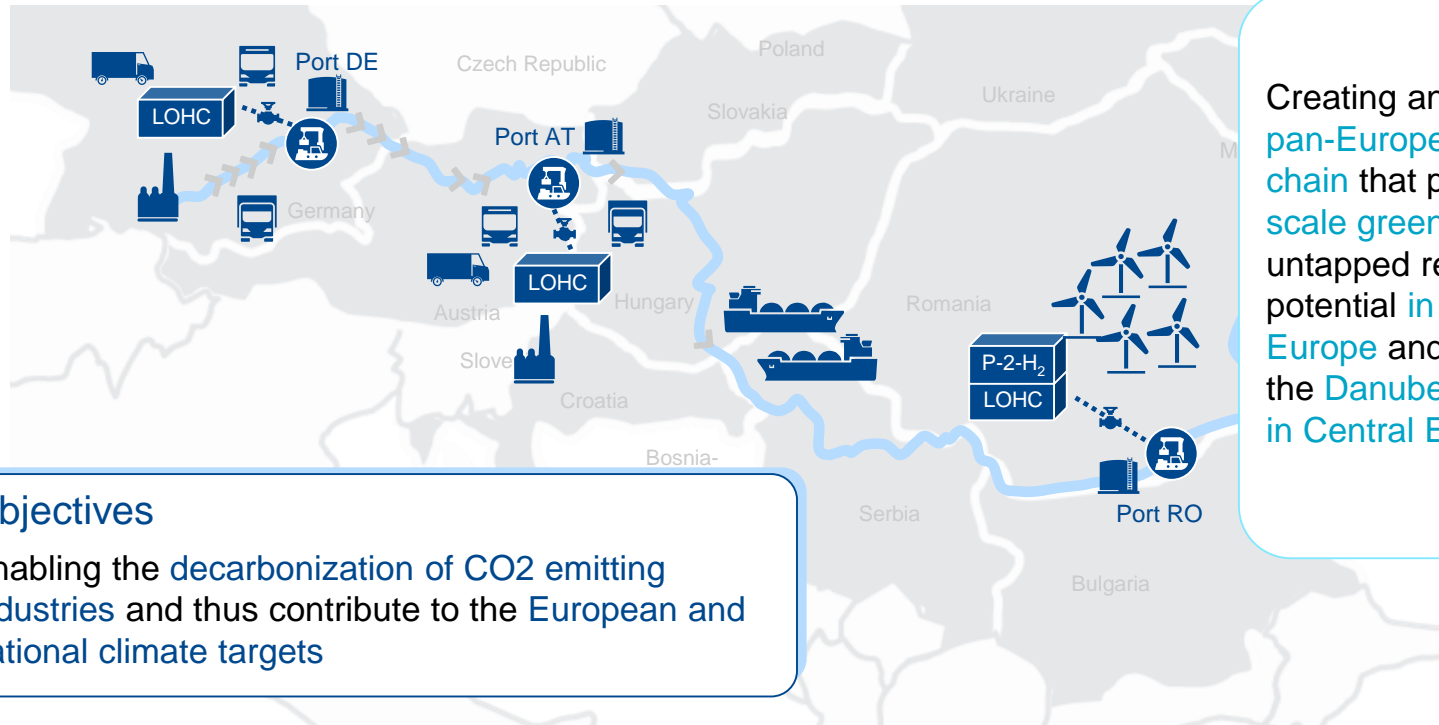
- Business Case
- Technology
- Energy Demand



Verbund

The Green Hydrogen @ Blue Danube project creates an IPCEI-based pan-European supply chain for green hydrogen along the Danube corridor

Vision and Objectives



Creating an IPCEI-based pan-European supply chain that produces large-scale green H₂ from untapped renewables potential in South Eastern Europe and ships it via the Danube to off-takers in Central Europe

Objectives

Enabling the decarbonization of CO₂ emitting industries and thus contribute to the European and national climate targets