Verbund

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

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 $H_2 + CO_2$ from cement production $\rightarrow$ renewable based plastics

Vision
Complete use of the CO$_2$ 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

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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.