

Westküste 100

Hydrogen eco-system in Schleswig Holstein, Germany

- The first large-scale hydrogen project in **Germany** within the **Reallabor** (real-world laboratory) framework. Energy-intensive industries and the transportation sector will have the opportunity to reduce their carbon intensity by using renewable hydrogen.
- **Hynamics**, a subsidiary of **EDF** to produce and market low-carbon hydrogen, provides its expertise in multi-modal systems to the project (technical specifications, control technology, grid-compatible operation of the system etc.)

1st phase (start August 2020):

- 5 years
- 30 MW electrolyzer capacity
- Replacing the grey H₂ demand of Heide refinery
- Cavern storage
- Feasibility studies on MeOH synthesis & Oxyfuel for cement plant

2nd phase:

- **GW-scale** electrolyzer
- Carbon capture & usage of 100% CO₂ output of cement plant
- **Hydrogen eco-system**

Project partners



Industrial scale green hydrogen and decarbonization

