

HEAVENN



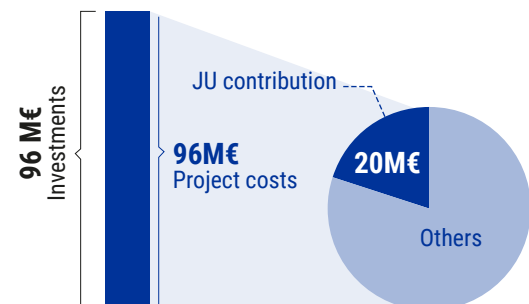
HYDROGEN ENERGY APPLICATIONS FOR VALLEY ENVIRONMENTS IN NORTHERN NETHERLANDS

Project ID	875090
PRR 2025	Pillar 6 – H ₂ Valleys
Call Topic	FCH-03-1-2019
Coordinator Beneficiary	STICHTING NEW ENERGY COALITION, NL
Project Period	01-01-2020 - 31-12-2027
Location	The Netherlands



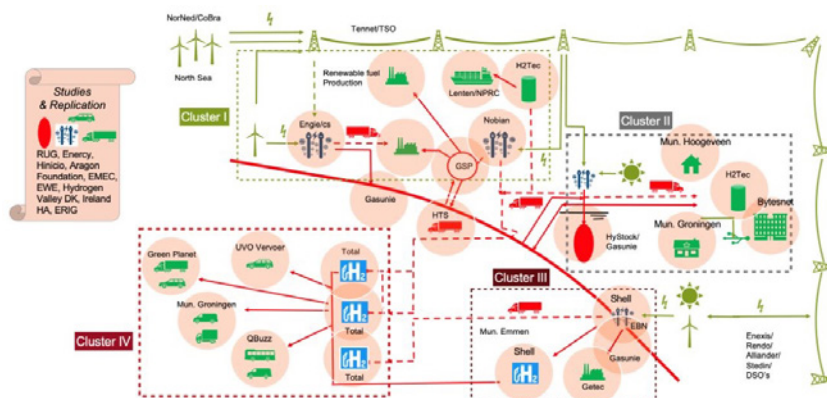
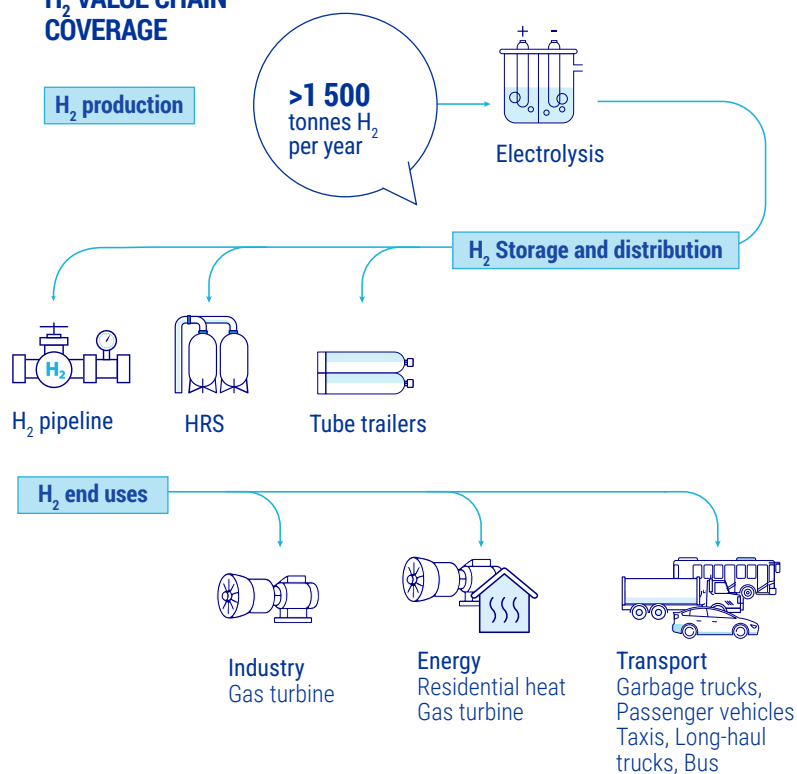
Administrative boundaries: © EuroGeographics © UN-FAO © Turstat
Cartography: Eurostat - NAGS, 03/2025

Finances

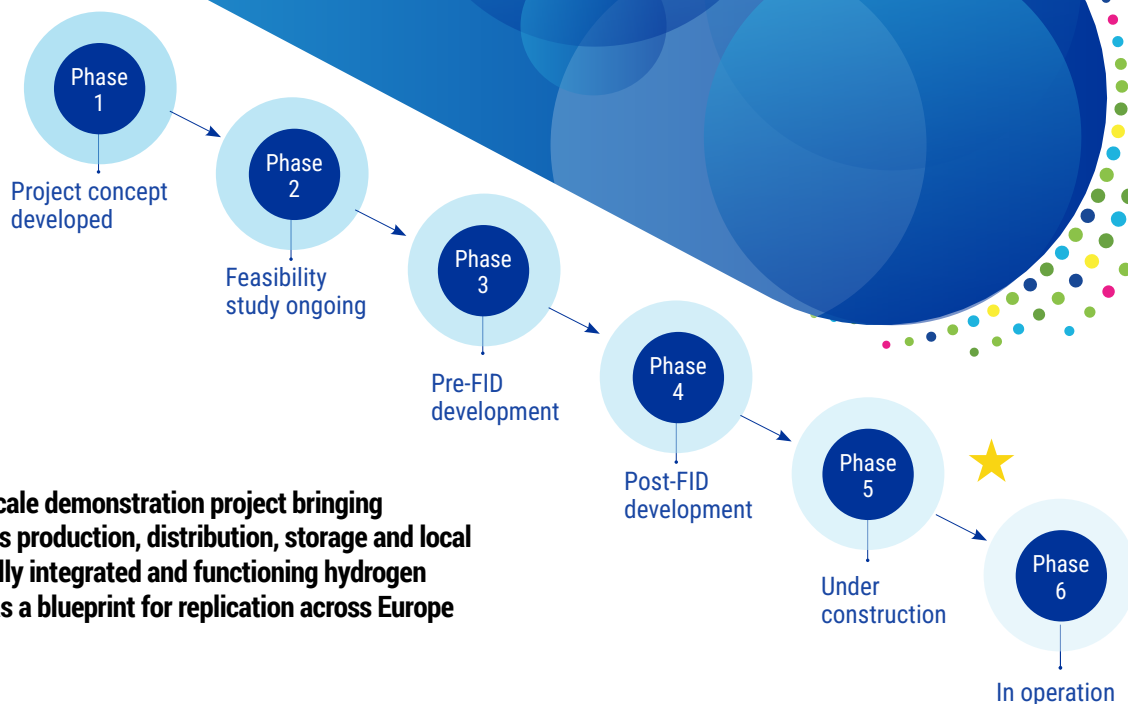


<http://www.heavenn.org>

H₂ VALUE CHAIN COVERAGE



PROJECT TIMELINE



HEAVENN is a large-scale demonstration project bringing together core elements production, distribution, storage and local end use of H₂ into a fully integrated and functioning hydrogen valley that can serve as a blueprint for replication across Europe and beyond.

PROGRESS, MAIN ACHIEVEMENTS AND RESULTS

HYDROGEN APPLICATIONS

- Salt barge hull is currently sailing in the Netherlands using a container swap solution for hydrogen refuelling.
- Vehicles have been ordered or purchased and will be delivered this year.
- In Hoogeveen, construction has started on hydrogen-powered housing.
- The data centre hydrogen project is evaluating the best fuel cell type and size for its energy needs.

STORAGE AND DISTRIBUTION

- Salt cavern testing is ongoing and is being successful
- First static tests were successfully performed by Gasunie, showing that hydrogen can be safely stored in salt caverns.
- Designs and layout plans for future H₂ caverns are in progress.
- The Hydrogen Refueling Station (HRS) is operational and in use by partner UVO.
- The Emmen EMMHY pipeline is installed and ready to begin using hydrogen.

MARKETABILITY PROGRESS

- The connections specification study is complete, exploring market scenarios and design scalability; results include a plot plan and capacity-range definition.
- In Eemshaven, efforts are ongoing to matchmake for the pipeline, seeking customers and purchase agreements.
- The HyCC factory is progressing toward a Final Investment Decision (FID).
- The Hydrogen Hub is applying for a final co-financing subsidy and will proceed to FID after approval.

FUTURE STEPS AND PLANS

- A critical assessment of deliverables is planned.
- Tasks and deliverables will be reassessed and updated due to changes since the grant agreement.
- A few partners are awaiting cofounding; if secured, they plan to accelerate all actions.
- The consortium has been awarded a definitive extension, which aid partners in closing their business case and proceeding to FID.
- Significant effort will be made to connect hydrogen valley projects, focusing on:
 - Sharing experiences and lessons learned;
 - Creating synergies;
 - Mutual strengthening of projects.

