

HEAVENN

HYDROGEN ENERGY APPLICATIONS FOR VALLEY ENVIRONMENTS IN NORTHERN NETHERLANDS



HEAVENN

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| Project ID: | 875090 |
| PRD 2023: | Panel 6 – H2 valleys |
| Call topic: | FCH-03-1-2019: H2 valley |
| Project total costs: | EUR 96 191 883.00 |
| Clean H₂ JU max. contribution: | EUR 20 000 000.00 |
| Project period: | 1.1.2020–31.12.2025 |
| Coordinator: | Stichting New Energy Coalition, Netherlands |
| Beneficiaries: | Shell Nederland Verkoopmaatschappij BV, TotalEnergies Marketing Nederland NV, TotalEnergies Gas Mobility BV, Gemeente Hoogeveen, Hydrogen Ireland Natural Resources Association Company LBG, Nederlandse Particuliere Rijnvaart-Centrale Cooperatie UA, U.V.O. Vervoer BV, Lenten Scheepvaart BV, Bytesnet Groningen BV, EWE Gasspeicher GmbH, Energy BV, Green Planet Real Estate BV, Emmtec Services BV, Gemeente Emmen, HyEnergy TransStore BV, H2Tec BV, Gemeente Groningen, Groningen Seaports NV, ENGIE Energie Nederland NV, EBN – Energie Beheer Nederland BV, HyEnergy Consultancy Limited, European Research Institute for Gas and Energy Innovation, PitPoint. Crew BV, PitPoint.Pro BV, Qbuzz BV, Nederlandse Aardolie Maatschappij BV, PitPoint.CNG BV, Cemtec Fonden, Gemeenschappelijke Regeling Samenwerkingsverband Noord-Nederland, Logan Energy Limited, Hincio, Nobian Industrial Chemicals BV, Fundación para el Desarrollo de las Nuevas Tecnologías del Hidrógeno en Aragón, NV Nederlandse Gasunie, the European Marine Energy Centre Limited, Rijksuniversiteit Groningen |

<https://heavenn.org/>

PROJECT AND OBJECTIVES

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. The main goal is to make use of green H₂ across the entire value chain, while developing replicable business models for wide-scale commercial deployment of H₂ across the entire regional energy system.

NON-QUANTITATIVE OBJECTIVES

- HEAVENN aims to achieve certification of regulations, codes and standards. All relevant green H₂ value chains will be tested against the CertifyHy protocol.
- Safety issues will be covered by permitting procedures.

PROGRESS AND MAIN ACHIEVEMENTS

- The salt barge hull has been delivered to the Netherlands and will be operational around June 2023. Salt cavern testing is ongoing and has been successful so far.
- Emmen hydrogen refuelling station was delivered in June 2022 and has been successfully used by Qbuzz and other companies to refuel at 350 bar. A large proportion of the mobility applications (i.e. vehicles) have been ordered or purchased and will be delivered this year.
- Work package 4 is currently on hold. Work packages 5, 6 and 7 are operating mostly on schedule.

FUTURE STEPS AND PLANS

Securing co-funding is a prerequisite for the project to succeed. Talks with governments about State aid will continue, aiming to speed up the process and secure all co-funding.

