Pilot Activity in Groningen (The Netherlands)

Hydrogen Valley Airport

Goningen Airport Eelde

The Hydrogen Valley Airport project at Groningen Airport Eelde is a strategic initiative aimed at enabling the future use of hydrogen as a clean aviation fuel. The ultimate goal is to supply hydrogen directly to aircraft, supporting the decarbonization of air travel. As a critical step toward that vision, the project is already integrating hydrogen into ground operations, laying the groundwork for a smooth and scalable transition.

A key driver for this transition is the need to decarbonize hard-to-electrify ground support equipment (GSE). Vehicles and systems where battery-electric solutions are technically or operationally challenging. Hydrogen provides a viable alternative, offering fast refueling, high energy density, and longer operational range, especially in demanding airport environments.

To support this transition, the project is evaluating the feasibility of on-site green hydrogen production, powered by solar energy generated at the airport. An electrolyser, coupled to the airport's renewable energy systems, is considered as a first enabler to ensure a fully sustainable, zero-emission hydrogen supply. Optimization and simulation studies will determine the ideal sizing, design, and operational parameters of the electrolyser to meet current and future energy demands efficiently.

Additionally, the project will connect with the regional hydrogen infrastructure, developed under EU-supported initiatives, to strengthen supply chains and increase resilience.

LIHYP Pilot Airport Groningen Eelde
OLEC e.V. - Innovationscluster Erneuerbare Energie

Bekijken op

LIHYP PILOT NETHERLANDS/ MIDTERM OCTOBER 2025

MARKET EXPLORATION OF HYDROGEN FILLING STATION GRONINGEN AIRPORT EELDE

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