



International Partnership
for Hydrogen and Fuel Cells
in the Economy

The Netherlands Update

35th IPHE Steering Committee Meeting
22 – 23 June 2021
Virtual Meeting

Announcements / New Initiatives *The Netherlands*

• Investments/Funding/Policies/Initiatives

- Letter to the Dutch Parliament over the progress of the implementation of the Dutch Hydrogen strategy released in March 2020. (December 2020)
- The Cross Sectoral Hydrogen Working Group (CSWW), established in January 2021, will deliver in July 2021 a draft of the working plan of the National Hydrogen Programme (NWP) - to be implemented from 2022-2025. The working plan will include activities and policies covering the whole hydrogen chain in industry, transport and built environment.
- Green Deal “H2 in built environment” between the national government, regional governments and market parties to work together on the technical, legal and social aspects of hydrogen use in residential heating (March 2021).
- International Hydrogen Platform. Platform organized by the Dutch government and the NL Technology & Industry Association to bring together companies and knowledge institutes that want to interact with international partners.
- IPCEI match making procedure (June 2021), 25 projects preselected.
- National Growth Funds: “Greening the Dutch economy” project awarded (€73 million + €265) for H2 innovation and R&D.
- Subsidy for Hydrogen Technologies, TKI (€3 million)
- Subsidy TSE Industry for industry and fuels for aviation and maritime applications (€6,36 million)
- €4 million subsidy for first inland shipping vessel on hydrogen, more to follow (March 2021)

Announcements / New Initiatives *The Netherlands*

- **New Research & Development, Demonstration and/or Deployment Activities**
 - Overview with over 130 projects can be found [here](#).
 - First hydrogen tractor in Stadsboerderij Almere, NL (H2Trac Arnhem)
 - Hydrogen Demo house opened “ Hydrogen Experience Center from grid operator Alliander as training location
 - TU Delft Solar Team developed the first flying hydrogen boat in the world. The “Hydro Motion” will race in July during the Energy Boat Challenge in Monaco.
 - Two garbage trucks powered by hydrogen in Helmond, NL operational since May 2021
 - New task on hydrogen underground storage within the IEA Hydrogen TCP coordinated by The Netherlands



Announcements / New Initiatives *The Netherlands*

• Key Collaborations

- Penta-lateral Forum, Hydrogen Working Group: Joint Position paper on regulatory framework
- IPCEI
- Several studies with Germany: HY3, German/Dutch joint innovation approach to green hydrogen and chemistry
- IEA, IEA-TCP, CEM-H2, MI, IPHE
- International Hydrogen Platform
- Port of Rotterdam concluded agreements with a number of countries

The Netherlands – Profile June 2021

Status of Deployments

- Deployment in transport: passenger cars, buses and trucks and first experiences with other applications
- Start upscaling phase of green hydrogen production (realizing 1-20 MW electrolysis)
- Kick starting clean hydrogen market

Leading Government Initiatives

- Hydrogen National Programme
- HyWay27 (study on repurposing gasgrid)
- IPCEI (25 projects preselected)
- Combined tenders h2 & offshore wind (study)

Goals or Focus Areas

- Upscaling green hydrogen production & reducing costs
- Infrastructure development (Hydrogen backbone)

Deployment Goals

- 3-4GW electrolysis in 2030, 500 Mw in 2025
- In 2025: 50 tank stations, 15.000 FCEVs en 3.000 heavy duty vehicles
- Pilot projects to enable use of hydrogen for urban heating by 2030

Funding

€70million subsidy per year (DEI+ & new upscaling instrument) + SDE++ for green and blue hydrogen production

Thank you



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