H2Accelerate TRUCKS
Large scale deployment project to accelerate the uptake of Hydrogen Trucks in Europe

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Project Overview

- **Call year / Call topic:** [2022] / [HORIZON-JTI-CLEANH2-2022-03-03]

  *Large scale demonstration of European H2 Heavy-Duty Vehicle along the TEN-T corridors*

- **Project dates:** [01/02/2023 - 31/01/2029]

- **% stage of implementation 01/11/2023:** [12.5 %]

- **Total project budget:** [~110 M€]

- **Clean Hydrogen Partnership max. contribution:** [~30 M€]

- **Other financial contribution:** [RCN (~400 k€) + SERI (~319 k€)]
Partners and truck deployment

TENT-T corridors where H2Accelerate members intend to deploy hydrogen trucks and refuelling infrastructure.

Co-funded by:

[Logos of various partners and funders]
Overall goal:
To support the transition of fuel cell trucks from technically proven but high-cost demonstrators to a viable commercial choice for operators across Europe.

Main objectives:

1. Deploy 150 fuel cell trucks between 41 and 44 tons in 9 European countries by the end of 2029.

2. Operate the trucks on an HRS network designed for zero-emissions truck deployment, operated by Everfuel, Shell and TotalEnergies.

3. Analyse technical, environmental, economic and attitudinal data to display the viability of H₂ fuel-cell trucks as a solution to decarbonise road freight.

4. Raise awareness of the benefits of using green H₂ for trucking in Europe through a wide range of targeted communication activities.
The European truck manufacturers included in the project are in the forefront of the development of fuel cell-powered heavy-duty trucks and are, through the project, developing their technologies beyond state-of-the-art in terms of performance, reliability and cost.

The project will contribute to scaling up the truck manufacturers capabilities to produce higher volumes of trucks, thereby facilitating the mass market deployment in the thousands from 2030.

Three leading refueling station operators will, as associate partners, contribute to increased supply of green hydrogen along the TEN-T corridors, rendering Europe in the forefront of the decarbonization.
Project Progress/Fleet Launch

Achievement to-date

- Project activities include:
  - OEMs preparations for fleet launch
  - Adaptation of manufacturing facilities to accommodate FC truck production
  - Preparations for Homologation and Type Approval
  - Initial Dialogue with end-users and HRS network operators
  - Establishing maintenance and service networks along TEN-T corridors
    - Design of maintenance strategy for truck operators, local partners, OEMs
    - Preparation of maintenance facilities for H₂-powered vehicles
    - Training of maintenance personnel
  - Developing and agree on protocols for data monitoring and analysis
  - Assessment of HSE issues and preparing an adequate safety plan
  - Establishment of a dissemination and exploitation plan
All Truck Manufacturers have demonstrated hydrogen fuel cell-powered truck prototypes on in-house testing tracks and public roads.

The prototypes are now being tested with respect to, for example:
- Operation under demanding climate conditions (cold/hot) and topography (e.g., altitude >1500 m)
- Range per refueling (topic description KPI: > 600 km), Daimler Trucks reported > 1000 km (LH2)
Project Progress/Team Building

Achievement to-date
Commitment & Good dialogue

- Project Kick-Off meeting Brussels, Feb. 1st 2023:
- Project meeting Gothenburg, Oct. 23rd - 24th 2023:

- 25%
- 50%
- 75%
Dissemination Activities

- The Dissemination Plan includes (published/target):
  - Targeted press releases (1/10) and white papers (1/5) (mainstream + industry related)
  - Dedicated end-user group meetings to encourage new operators to adopt H₂ FC vehicles
  - Conferences and events for key stakeholder representatives to access project results
    - truck end-users, policy makers and the wider truck industry
  - Share lessons learnt/experiences (best practice)
  - Presentations and exhibits at industry specific events
  - Specific and dedicated outreach activities in Eastern Europe
    ✓ LinkedIn account
    ✓ Webpage: H2Accelerate Trucks - H2Accelerate
Synergies With Other Projects And Programmes

Interactions with HRS projects funded under EU programmes

- Lighthouse I (TotalEnergies) - 9 stations (CEF-T-2021-AFIFGEN)
- H2Accelerate Inaugural Station Deployment (Shell) - 8 stations (CEF AFIF)
- H2Accelerate Expansion Network part 1 (TotalEnergies) - 12 stations (CEF-T-2021-AFIFGEN)
- GREATER4H Project (Everfuel) acquired funding for 12 additional stations (CEF)

Fuel availability is naturally a pre-requisite for a successful launch of the 150 HD Trucks.

Synchronized deployments lead to better end user experience and business cases for infrastructure providers and truck manufacturers alike.
Thank you for your attention!