



International Partnership
for Hydrogen and Fuel Cells
in the Economy

Croatia Update

43rd IPHE Steering Committee Meeting

10-11 June 2025

Santiago, Chile

Announcements / New Initiatives *Croatia*

- **Investments/Funding/Policies/Initiatives**

- Aligning Croatian laws with EU legislation: Implementation of EU REFUEL Aviation and Marine Fuel Directives.
- The draft on Hydrogen Refuelling Station Regulation as Croatian bylaws (April 2025) is being developed to support co-financing by the Croatian Ministry of Economy.
- In 2024, the Croatian Ministry of Economy adopted a funding programme for investments in refuelling station infrastructure. The total budget: 39 mil EUR (33 mil EUR dedicated to hydrogen refuelling stations).
- In 2025, EU funding of 15 mil EUR to establish the production of renewable hydrogen in INA by the end of 2026 (up to 4000 kg/day, 10 MW PEM electrolyser).

Announcements / New Initiatives *Croatia*

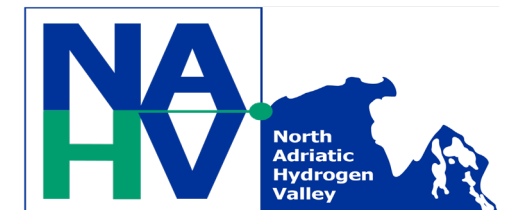
• Investments/Funding/Policies/Initiatives

- In 2024, the Development and Implementation Plan of the Croatian Hydrogen Strategy by 2050 was prepared and presented to the public.
The Plan outlines a detailed roadmap for integrating hydrogen into Croatia's energy system.
The Plan establishes the goals and measures for the successful implementation of the Croatian Hydrogen Strategy by 2050.



https://www.azu.hr/media/201nx0by/hr-h2-strategy-implementation_summary-study_final.pdf

- **New Research & Development, Demonstration and/or Deployment Activities**
- **Key Collaborations**
 - The North Adriatic Hydrogen Valley (NAHV): collaboration between Italy, Slovenia and Croatia. The NAHV should demonstrate cross-border integration of hydrogen production, distribution and consumption; an annual hydrogen production of over 5000 tons (over 20% is expected to be exchanged within the NAHV area). Deadline: 2028.
 - In 2024, the NAHV has activated 17 testbed applications in three sectors: hard-to-abate industries, energy and transport (moving from TRL 6 to TRL 8). 4 fuel cell applications in the energy and transport sectors will be demonstrated.
- **Other**



Croatia – Profile June 2025



Status of Deployments

- 10 MW PEMEL
- Production of renewable hydrogen (up to 4000 kg/day) with 11 MW photovoltaic power plant

Leading Government Initiatives

- Aligning Croatian laws with EU legislation: implementation of EU REFUEL Aviation and Marine Fuel Directives

Goals or Focus Areas

- Establishment of a hydrogen-based economy
- Focus on H2 production from RES; supporting infrastructure for renewable energy; and H2 use in the transport sector.
- Waste and sludge H2 production

Deployment Goals

NECP 2021-2030
Share of RES in gross final energy consumption:
42,5% (2030)

Funding

- 39 mil EUR for investments in refuelling station infrastructure (33 mil EUR for hydrogen refuelling stations)
- 15 mil EUR of EU funding for hydrogen production and use

Thank you



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