Italy Update

40th IPHE Steering Committee Meeting 4 - 5 October 2023 Washington DC, United States



Announcements / New Initiatives Italy



Investments/Funding/Policies/Initiatives

- Investment (news): Assignment of 450 M€ for the construction of renewable hydrogen production sites,
 by electrolysis, in brownfield industrial areas as part of hydrogen valleys.
- Investments (news): Hydrogen Use in hard-to-abate industry (1000 M€ funds), the assignment process completion is underway.
- Funding (announced): Incentivizing tariff for the production of green H2.
- Policies (news): Ministerial decree n. 224 of 14 July 2023, concerning the Guarantees of Origin of various energy carriers including hydrogen.
- Policies (news): Ministerial Decree 7 July 2023. Technical rule concerning risk analysis and fire safety for design, construction and operation of hydrogen production plants by electrolysis and related storage systems.









Announcements / New Initiatives Italy



- New Research & Development, Demonstration and/or Deployment Activities
 - R&D (news): Launch of 15 projects involving industry (30 M€ NRRP funds) and 7 projects involving research centers and universities (20 M€ NRRP funds);
 - R&D (ongoing): Operative Research Plan financed with 110 M€ by the Ministry of Environment and Energy Security and involving the main Italian research institutions on:
 - (a) green and clean hydrogen production;
 - (b) innovative technologies for storage, transport and transformation of hydrogen into derivatives and e-fuel;
 - (c) fuel cells for stationary and mobile applications;
 - (d) integrated smart management systems to increase the resilience and reliability of smart hydrogen-based infrastructures.
 - R&D (announced); the next launch for five regional research Hydrogen Hubs (€50 M€ funds)
- Key Collaborations: Clean Hydrogen Mission, IEA, IPHE, AT DE IT co-operation on H2 transport infrastructures











Examples of Lessons Learned and Impact *Italy*



Program initiative, policy, regulation or mandate	Lessons Learned/Outcomes
Hydrogen Valley	Strong interest from industrial players, showing the robust demand on green hydrogen to accelerate the Energy Transition, in each Regions.

Italy – Profile October 2023



Status of Deployments at 2025

- Around 50 renewables hydrogen plants within Hydrogen Valley
- ➤ R&D: 22 projects on H2
- Electrolyzer manufacturing 1 GW /year

Leading Government Initiatives

- National Recovery & Resilience Plan (NRPP)
- Mission Innovation
- National R&D Programme

Deployment Goals Net-zero emission by 2050

Goals or Focus Areas

- Hard to abate industry
- Transport: road (heavy duty veichels), railway, maritime and aviation.

Funding
3.64B€ from NRRP funds
and other funding
initiatives



















Thank you



International Partnership for Hydrogen and Fuel Cells in the Economy