

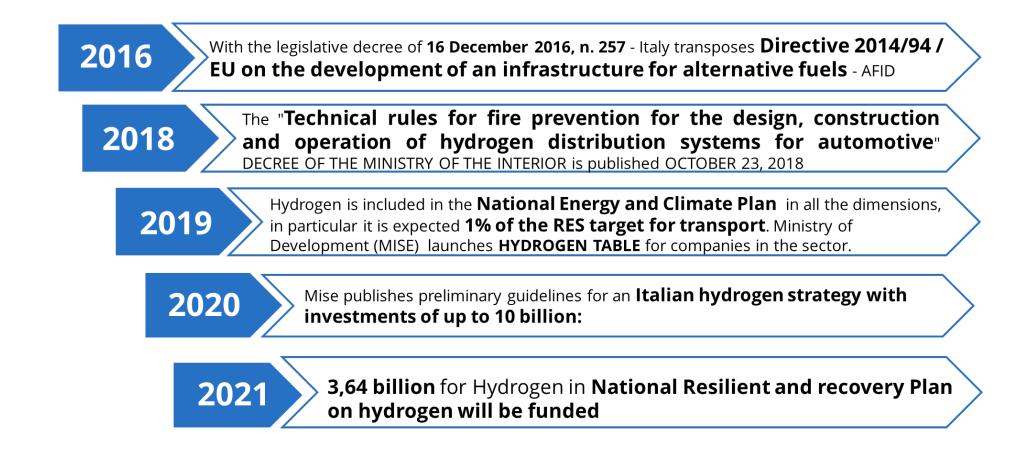
International Partnership for Hydrogen and Fuel Cells in the Economy

Italy Update

38th IPHE Steering Committee Meeting
29 – 30 November 2022
San José, Costa Rica







38th IPHE Steering Committee November 2022





Italian Support Schemes for Hydrogen



38th IPHE Steering Committee November 2022





Guidelines by the Italian Ministry of Economic Development







Recovery and Resilience Plan

INVESTMENT 3.1	0.5 B	INVESTMENT 3.2	2.0 B	INVESTMENT 3.2	0.16 B
PRODUCTION OF HYDROGEN IN BROWNFIELD SITES	[]	HYDROGEN USE IN HARD-TO-ABATE INDUSTRY		HYDROGEN RESEARCH & DEVELOPMENT	Ś
Promotion of local production and use of green hydrogen in industry, SME's, and local transport, thus creating new <i>Hydrogen</i> <i>Valleys</i> in abandoned industrial areas, with 1-5 MW of electrolyzers to be increased up to 10 MW, mainly located in the south of Italy with local production from RES and the creation of the necessary supply-chain		Supporting projects that aim at the progressive decarbonisation of hard-to-abate industries, mainly in the chemical and oil refining sector and in the steel industry and promoting the trasition from methane to green hydrogen through specific tenders for the proposal of sustainable and innovative projects and to boost the hydrogen adoption in the industrial production cycle		 R&D of hydrogen in all its phases: production, storage and distribution. Four lines of R&D activities will be developed: 1. Green & clean hydrogen production; 2. Innovative technologies for hydrogen storage, transport and transformation into derivates and e-fuels; 3. Fuel Cells for stationary & mobility application; 4. Integrated smart management systems to increase the resilience and reliability of intelligent hydrogen-based infrastructures 	
STATUS: Publication of regional tenders for the selection of areas & projects by the regions of Sardegna, Puglia Piemonte, Lombardia, Emilia Romagna, Veneto, Basilicata		STATUS : Will be launched a call for proposal for the selection of projects that will be financed through the Develompment Contract. By June 2026 decarbonization of an industrial plant.		STATUS: 90 projects have been submitted to the MiTE for evaluation. The winning projects wil be announced on June 2022.	



Strategic Agreement with the Italian Ministry of the Ecological Transition aimed at the strengthening of ENEA's research and technology transfer activities in the following thematic areas: production of green and clean hydrogen, innovative technologies for the storage and transport of hydrogen and its transformation into derivatives and e-fuels, fuel cells for stationary and mobility applications, intelligent integrated management systems to improve the resilience and reliability of hydrogen-based intelligent infrastructures

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STATUS: By June 2022 identification of the companies that will carry out the construction of the industrial plant for the production of electrolyzers. By June 2026 commissioning of the plant for a capacity of 1 gw per year. The incentive measure will be managed by Invitalia with the Development Contract.

INVESTMENT 3.3	0.23 B	INVESTMENT 3.4	0.3 B
HYDROGEN TESTING FOR ROAD TRANSPORT		HYDROGEN TESTING FOR RAILWAY MOBILITY	Ï
Increase the diffusion of hydroge transport, promoting the creation of of trucks and cars and reaching at least internal market within 2030. At least stations will be developed giving priori areas for heavy street transport: along close to ports, and near logistical termina	distributors for 5-7% of the ast 40 petrol ty to strategic the highways,	The conversion to H2 of non-electrified r regions characterised by high passenger traff use of diesel trains such as in Lombardy, Abruzzo, Calabria, etc. The most adva in Valcamonica & Salento envisage the ex- integrated manner of production, distribution a H2 trains.	fic with a strong Puglia , Sicily , anced projects xperiment in an
STATUS: Will be launched a tender for the for of 9 refueling stations for hydrogen trains along 6 Award of the tender by march 2023		STATUS: Selection of applications and allocation of re development of 40 hydrogen-based charging stations b	

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Award of the tender by march 2023



Research on Hydrogen in Italy: Trends and Perspectives

- ITALY participates in MISSION INNOVATION IC8: Renewable and Clean Hydrogen. Double funds for research compared to 2018
- ITALY supports a first IPCEI Important Project of Common European Interest on H2
- ITALIAN Recovery and Resilience Fund earmarks 3.6 G€ for H2 Value chain (160 M€ R&D)
- ITALIAN players feature prominently in the Clean Hydrogen for Europe P-P Partnership, over 1 G€ funding planned until 2027
- ITALIAN stakeholders feature in the EU Clean Hydrogen Alliance



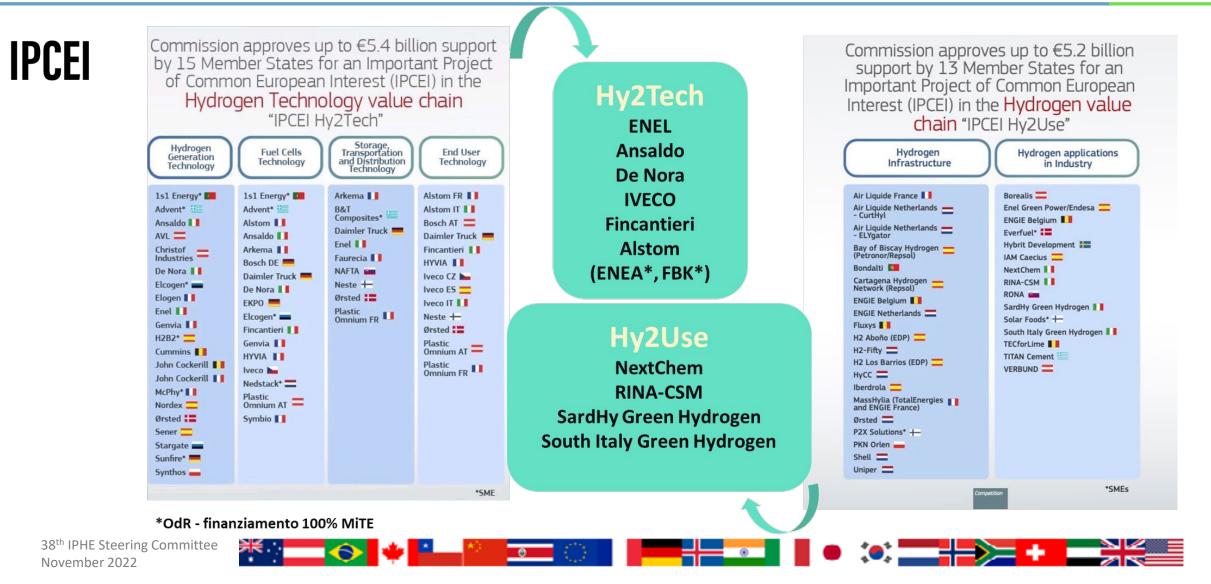
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Thank you



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