

H2IT

ASSOCIAZIONE ITALIANA IDROGENO

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Associazione Italiana idrogeno
Italian Hydrogen Association

Hydrogen Supply chain in Italy

H2IT

Who we are

MISSION & OBJECTIVES

We are the voice of the Italian industry and entities involved in the hydrogen supply chain. We aim to promote the development of the Italian market related to the production, storage and use of hydrogen.



The Association has always set itself the goal of achieving the following objectives:

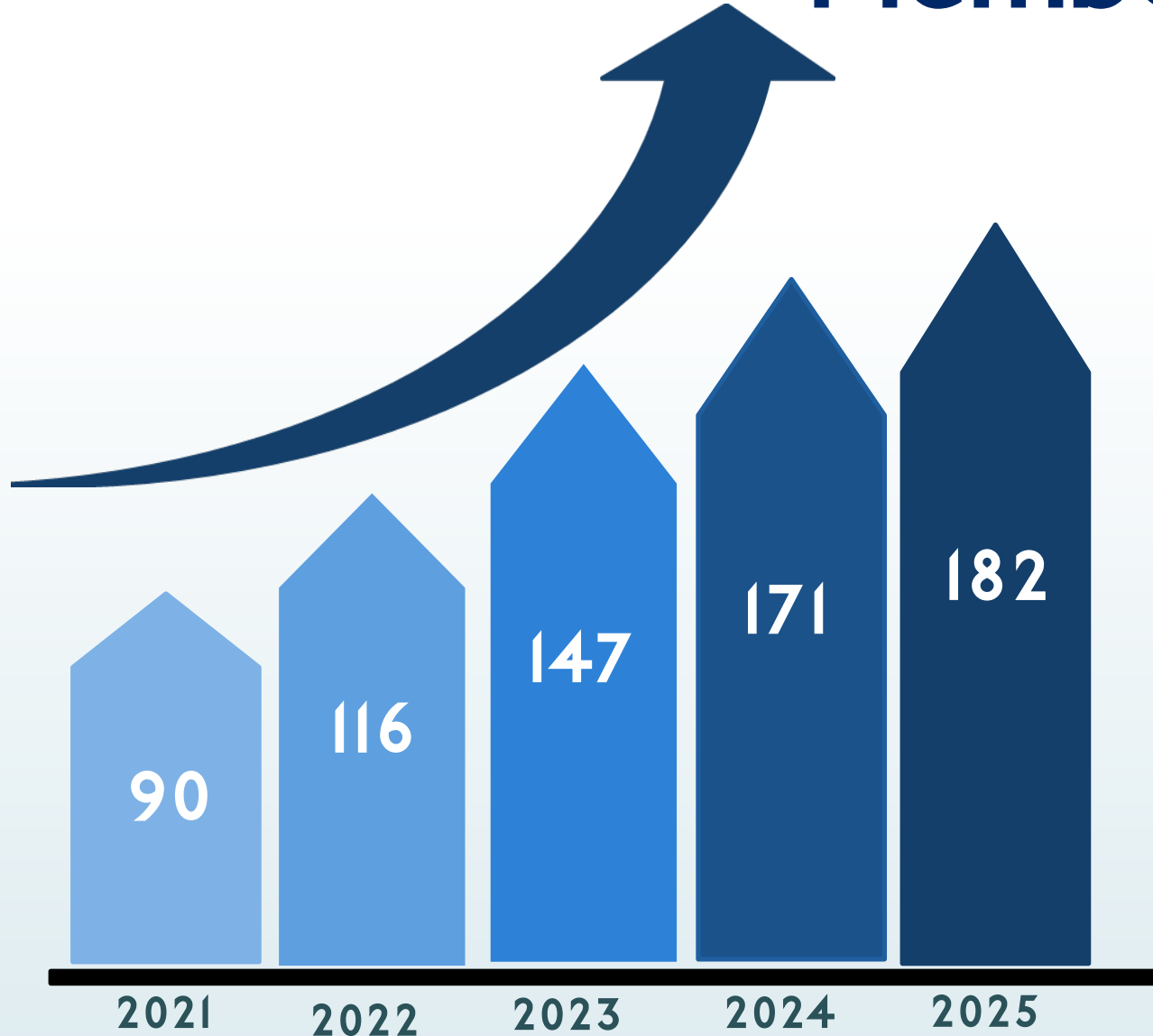
- to stimulate the creation of the infrastructure for the use of hydrogen,
- to support the players in the sector and ensure a leadership role for Italy in the world market.



H2IT aims to create the political and regulatory conditions for the development of a hydrogen applications market in Italy, as well as to promote its use through public and private participation.

- On the one hand, we want to act as bridge between companies and the institutions, offering the necessary support to define a clear regulatory framework and raising awareness among the Government and citizens on the importance of hydrogen in a zero-emission energy system
- and, on the other hand, to support member companies in the path of growth and development towards a hydrogen economy in Italy and Europe.

Members H2IT



WHO WE ARE - Companies



WHO WE ARE – Institutional members

Scientific Committee – Research Centers & Universities



Technological Clusters & Local Authorities



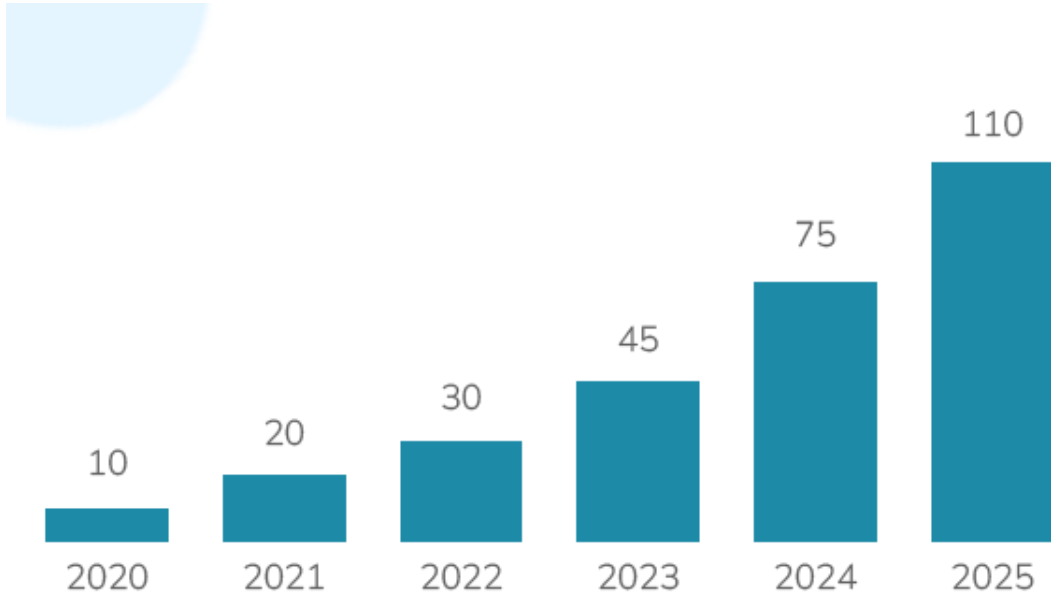
Global investments and European focus



Global investments

Global Hydrogen Compass 2025 – Hydrogen Council

Global cumulative committed (FID+) investment in clean hydrogen projects by 2030, \$ billion



China



33 billion \$

North America



23 billion \$

Europe



19 billion \$

India



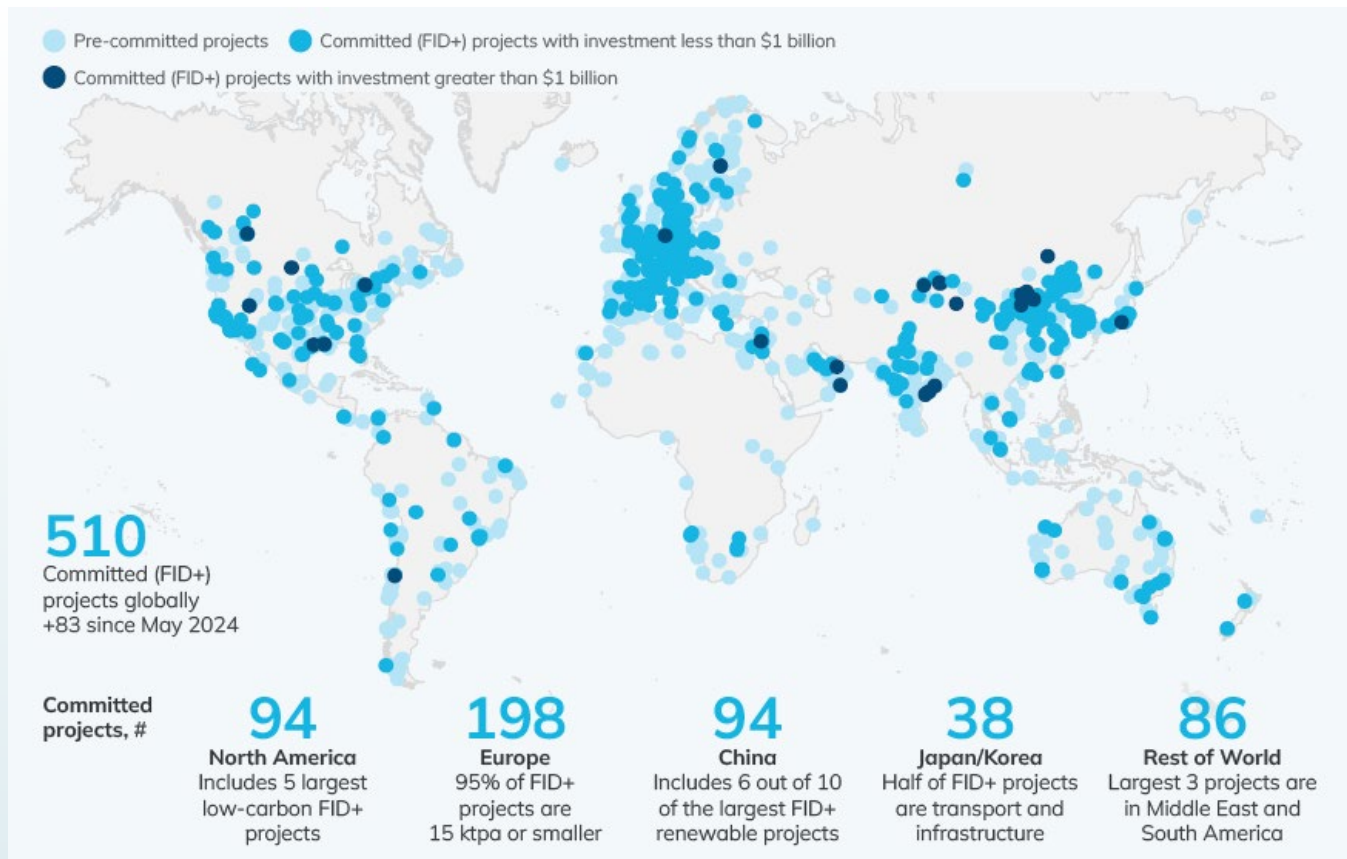
14 billion \$



Global investments

Global Hydrogen Compass 2025 – Hydrogen Council

Global clean hydrogen projects by project status



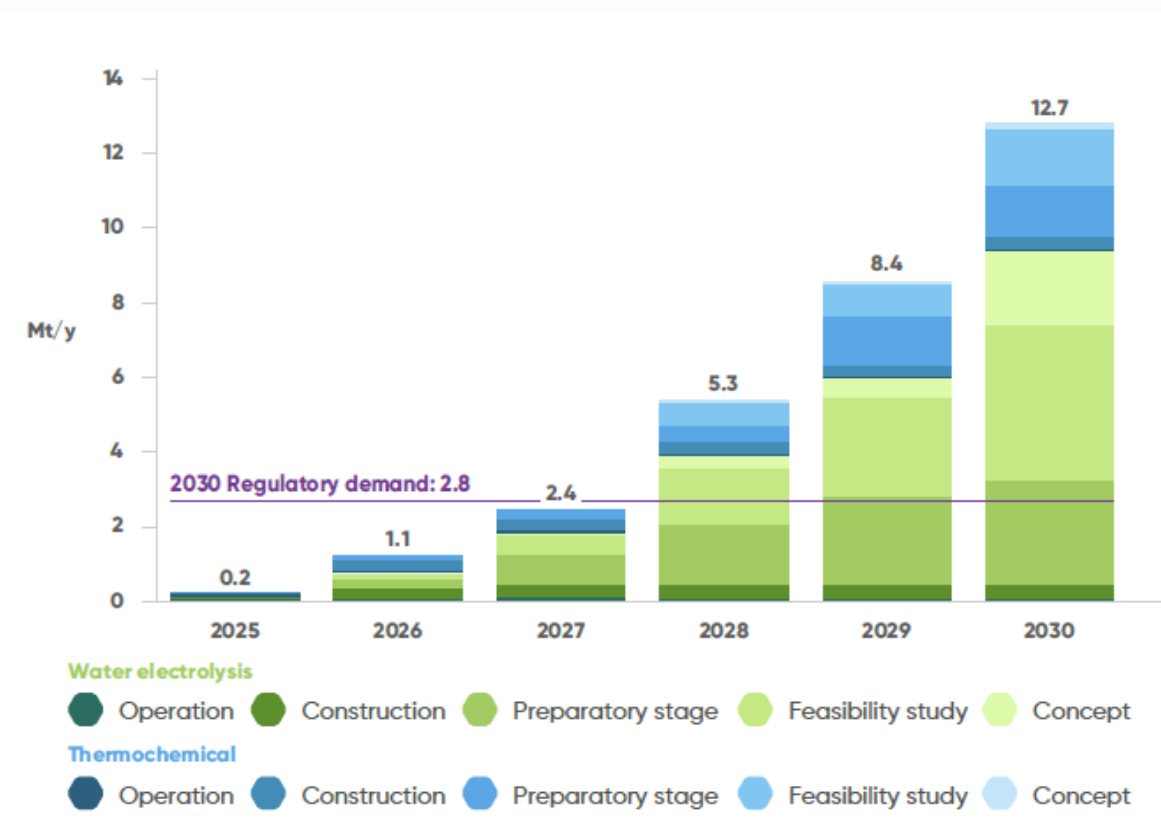
- **510 projects**
- **Europe has the highest number of projects with a date of entry into market by 2030**
- **70% of projects are renewable hydrogen, of which just under half are in Europe.**
- **Europe leads in quantity but Chinese renewable projects are ten times larger than European ones**



H2 Produzione in EU

CLEAN HYDROGEN MONITOR 2025 – Hydrogen Europe

Cumulative announced clean hydrogen production capacity up to 2030

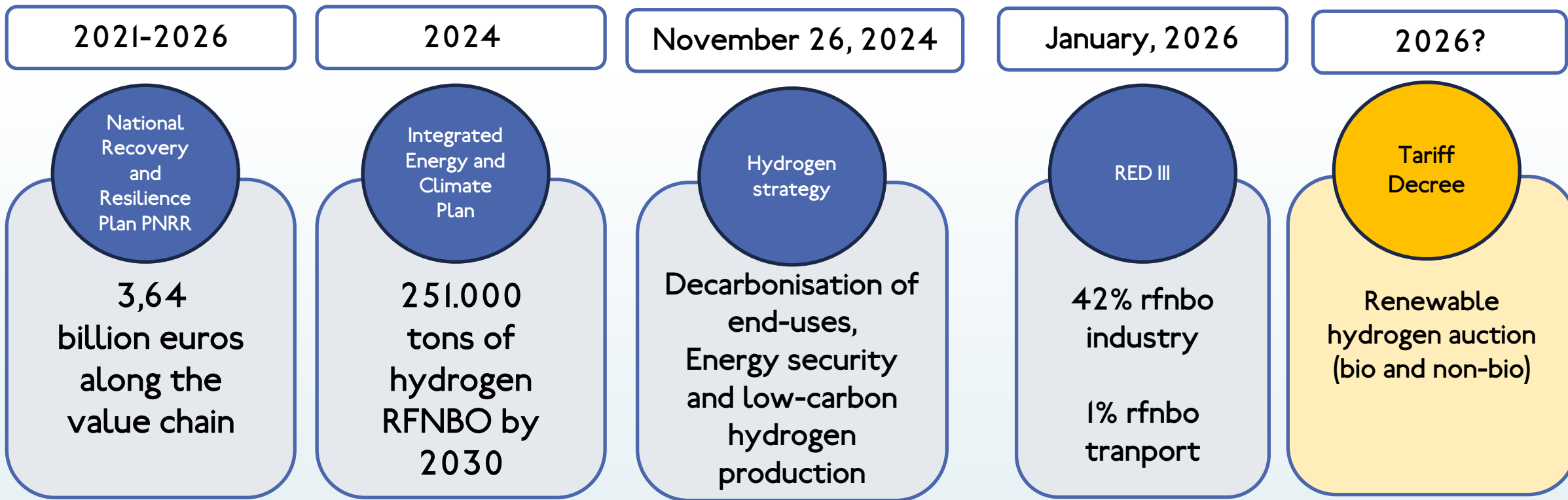


- *862 progetti annunciati di produzione di idrogeno pulito con piani di entrare in funzione dal 2030 per un volume di 12,7 Mt.*
- *Il 4,7% dei progetti è in costruzione*
- *Il 37% della pipeline di progetti è in una fase avanzata*

Italian Policy Framework



Strategia Nazionale per l'Idrogeno



Updating of safety and authorization regulations

National Funded Projects

Hydrogen valleys



Hydrogen Refuelling Stations

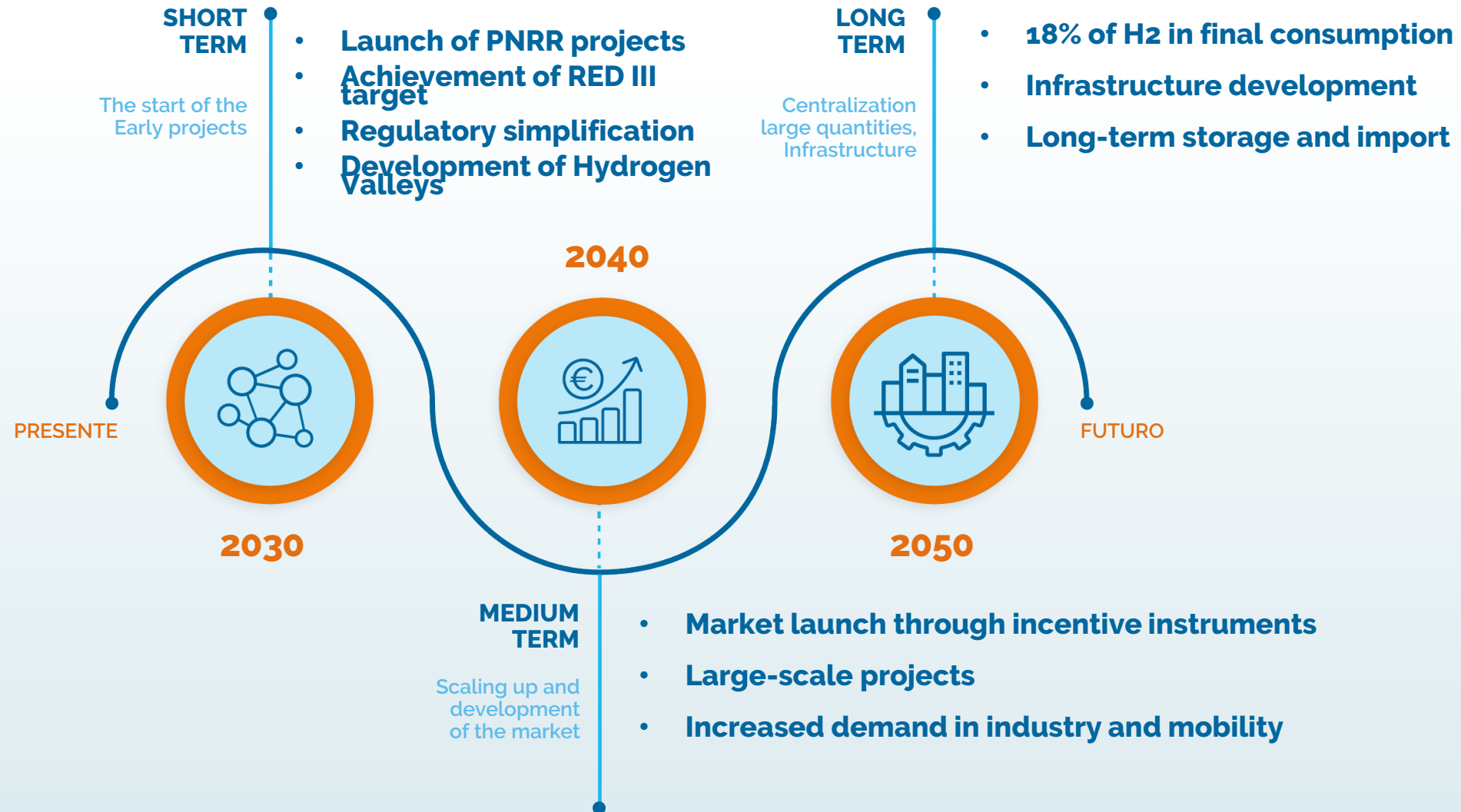


Important Projects of Common European Interest



The national hydrogen strategy

The stages of the strategy



High diffusion scenario (30% imports) by 2050:

Hydrogen consumption (Mtep)



Consumi finali



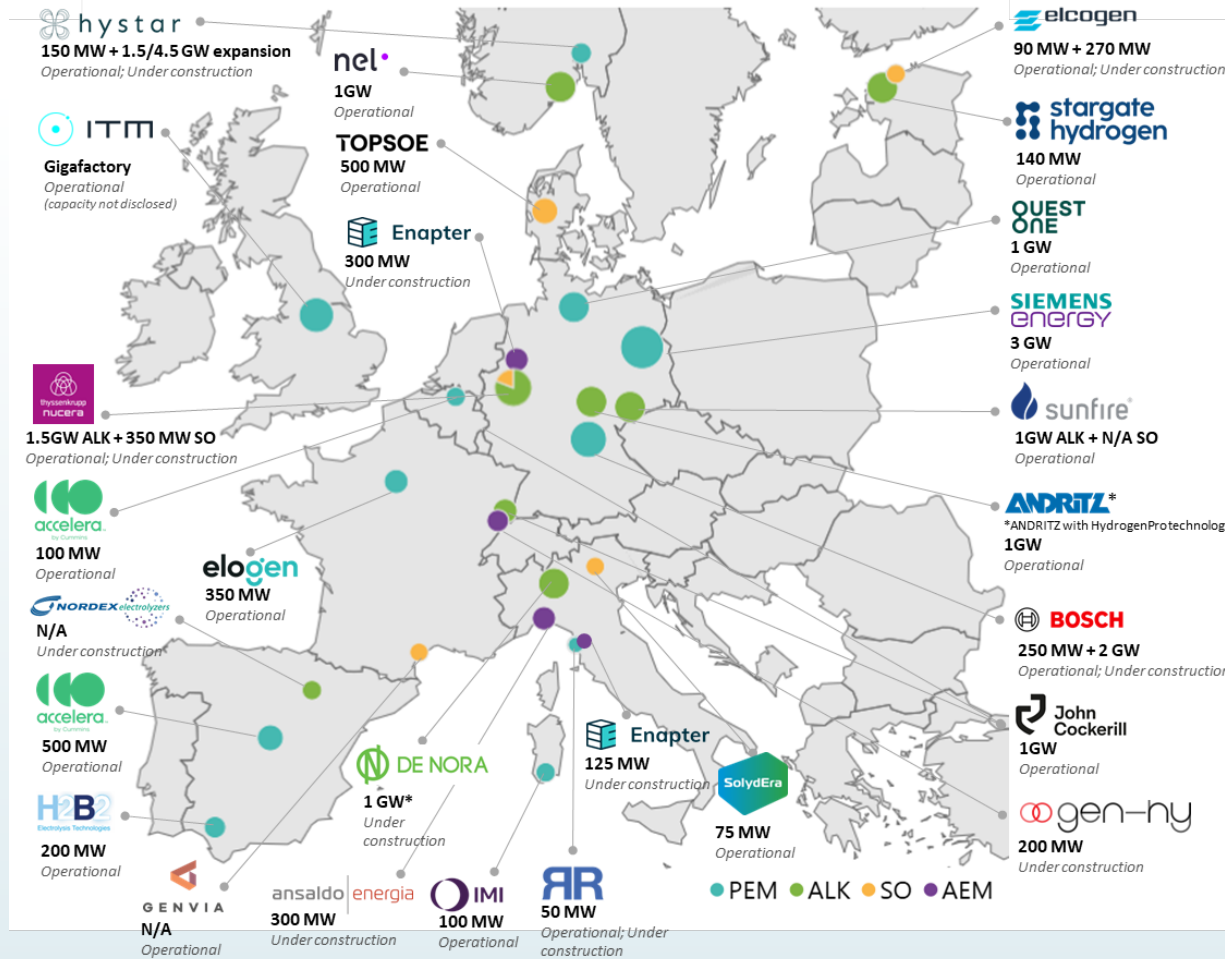
Investments



% of h2 consumption in end use sectors



European/Italian manufacturing capacity



In Italy

The current operational production is about ~275 MW/year.

In Italy

We cover all technologies: ALK, PEM, SOEC, and AEM

In Italy

More than 2.5 GW/year of electrolyser production capacity is under construction

Source- Hydrogen Europe - Sites below 50MW not shown, latest update August 2025



Necessary Regulations and Policies

PRIORITIES FOR ACTION

1. **OPEX INCENTIVE:** It is necessary to provide support for operating costs to bridge the cost gap with fossil alternatives.
2. **STIMULATING DEMAND IN INDUSTRY AND MOBILITY** – It is necessary to support companies that represent the demand for hydrogen and derivatives with appropriate tools. (Support for the replacement of fleets, the replacement of industrial equipment, calls to support the creation of ecosystems and the transition of industrial processes..)
3. **REDUCING THE COST OF ELECTRICITY:** Tools to reduce the impact of the cost of electricity on the cost of final hydrogen.
4. **CERTIFICATION:** Define the rules for the certification of renewable and low-carbon hydrogen.
5. **MADE IN EU MANUFACTURING.** Enhancement of the national and European supply chain of technologies and products, support for the creation/expansion of production centers in line with the NZIA.
6. **R&D:** Research and development fundamental for national competitiveness

Grazie per l'attenzione



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