Italian National Agency for New Technologies,
Energy and Sustainable Economic Development

ENEA R&D activities on hydrogen

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Context & Objectives

ENEA is carrying out R&D activities on enabling technologies for:

- Green hydrogen production (thermochemical, electrochemical)
- Hydrogen storage, transport and distribution (incl. chemical carriers)
- Fuel Cells and end-use applications
- Other cross-cutting topics

Recovery and Resilience Plan (RRP)
the Italian Research Operational Plan for Hydrogen

MISSION INNOVATION
accelerating the clean energy revolution

the National plan for the Electric System Research

RdS RICERCA DI SISTEMA

Clean Hydrogen Partnership

Collaborations (National, EU, International)

INTERNATIONAL LEVEL

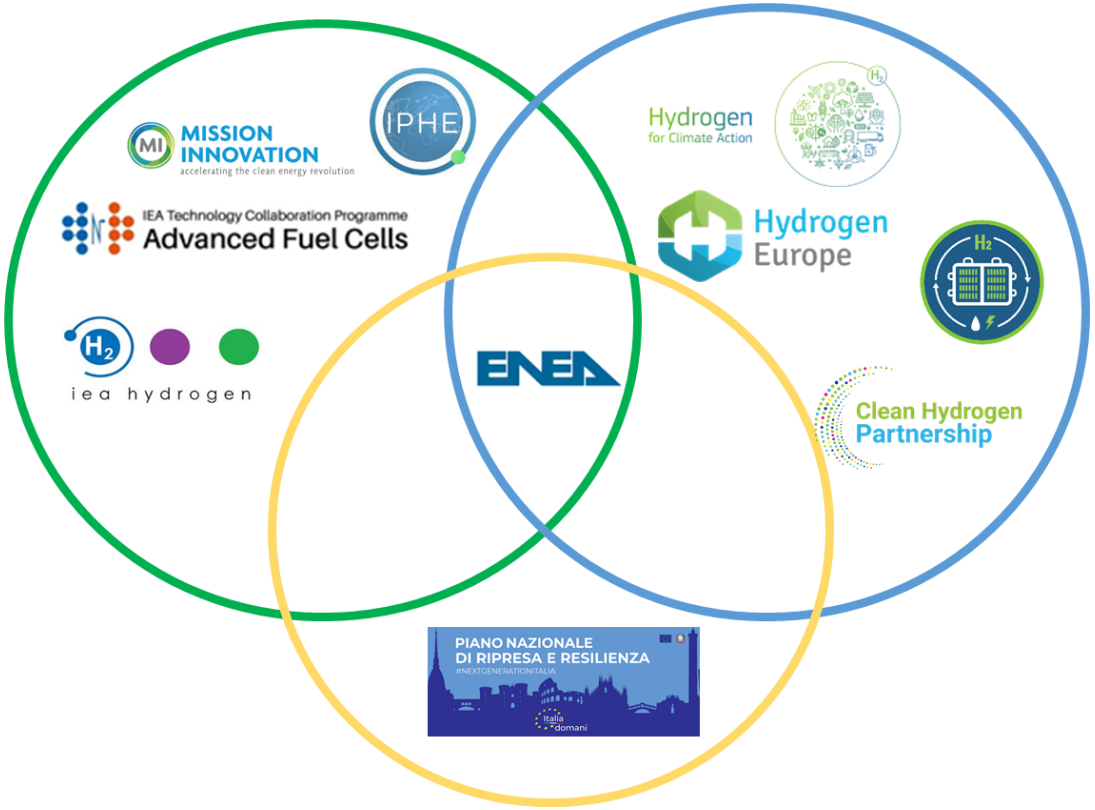
Italian representative in the board of: IPHE, Hydrogen and advanced fuel cells IEA TCP. ENEA plays also the role of advisor of ministry for ecological transition in the framework of mission innovation

EUROPEAN LEVEL

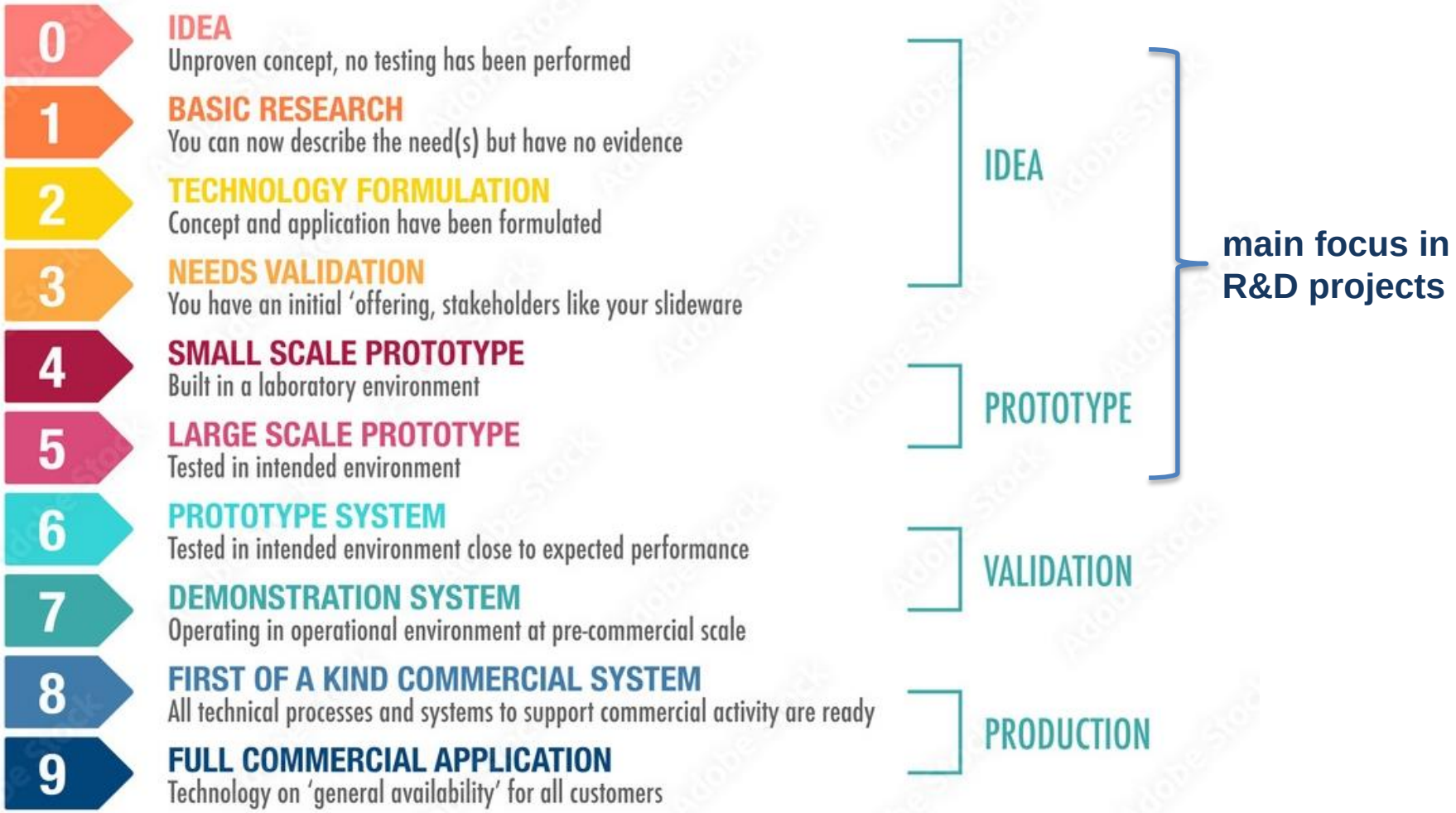
Actively involved in the promotion of hydrogen R&D in the most important European research partnerships (EERA, Hydrogen Europe, Clean Hydrogen Partnership). ENEA plays also the role of scientific advisor of MITE and MISE in the framework of IPCEI projects (Important Project of Common European Interest)

NATIONAL LEVEL

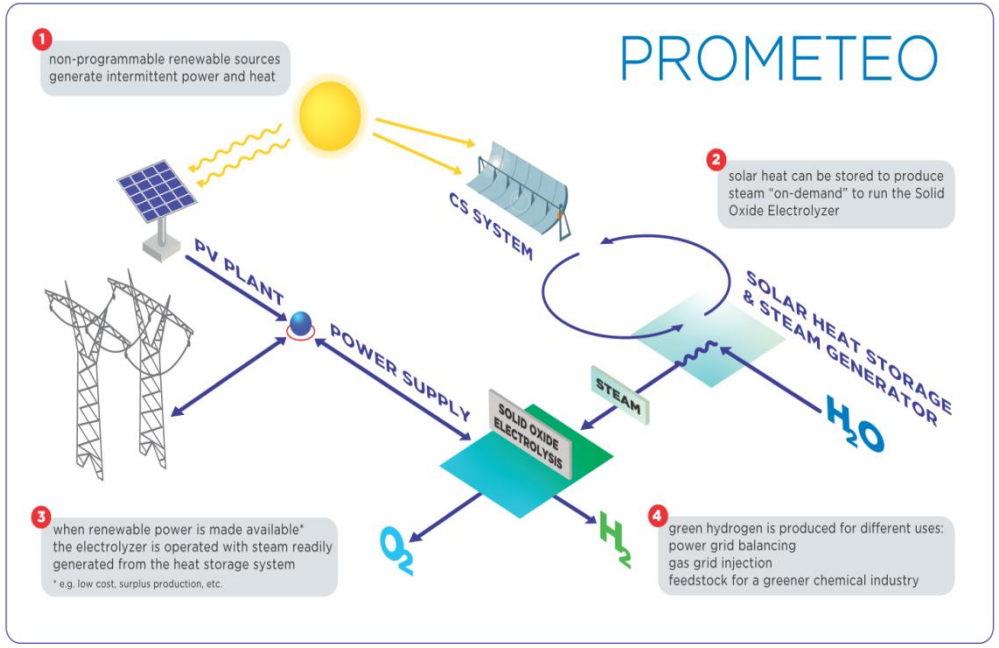
Is in the board of the Italian hydr[illegible]ssociation and in charge of several R&D activities in the framework of the national recovery and resilience plan



Context & Objectives

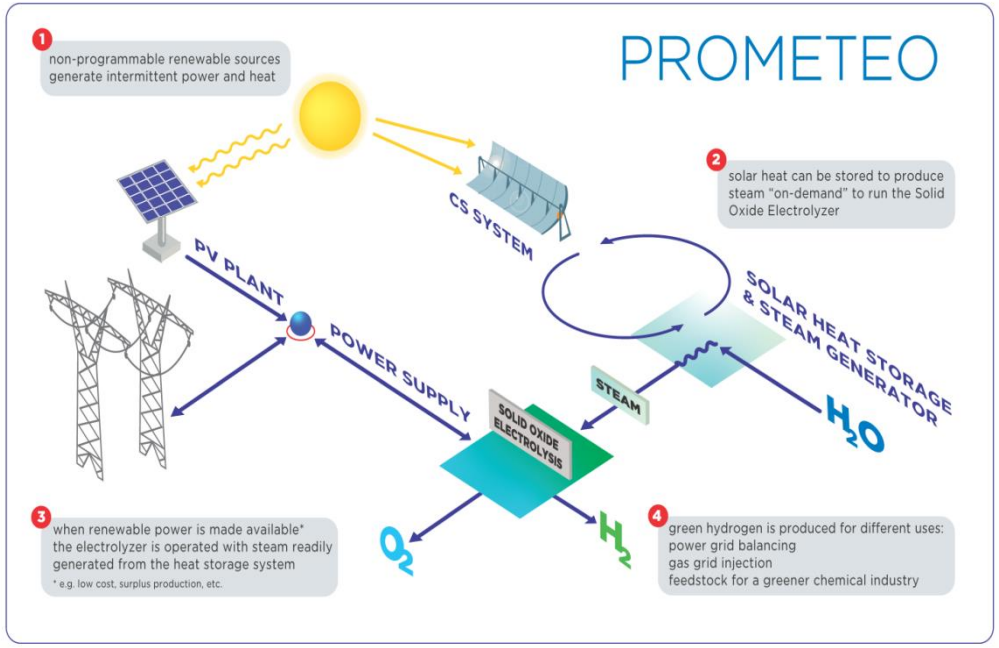


EU projects



PROMETEO aims at producing **green hydrogen from renewable heat & power sources** by high temperature electrolysis in areas of low electricity prices associated to photovoltaic or wind. The challenge of the project is to optimize the coupling of the **SOE** with two intermittent sources: **non-programmable renewable electricity and high-temperature solar heat from Concentrating Solar (CS) systems with Thermal Energy Storage (TES)** to supply solar heat when power is made available.

EU projects



Ms Ana María Ruz Frías	**Chile**	**Solar Energy Committee of the Chilean Economic Development Agency. Advisor for the new Green Hydrogen Strategy for Chile**

Thank you for your kind attention!

For more information:

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