

ENERGETICS

DENERG - Hydrogen Valleys: modeling and optimization, including experiments in H2 Tunnel

Funded By	Dipartimento DENERG
Supervisor	SANTARELLI MASSIMO - massimo.santarelli@polito.it
Contact	GANDIGLIO MARTA - marta.gandiglio@polito.it MAROCCO PAOLO - paolo.marocco@polito.it
Context of the research activity	Hydrogen value chain: production, transportation, end-uses Modeling of hydrogen value chain inside Hydrogen Valleys Experimental activities in Hydrogen Tunnel
Objectives	The PhD is connected to the wide thematic of the Hydrogen Valleys, conceps that have the aim to connect the complete HN2 value chain, from production to transportation and storage, to the various end-uses In particular, the PhD is devoted to the modeing of the complete valley, and on the identification of the optimal configuration and management of the Valley Finally, the PhD will also develop experimental activities related to emission and leackage of H2 or He mixtures, in a dedicated lab defined as "H2 Tunnel": these data will be used n the modeling of the H2 value chain
Skills and competencies for the development of the activity	Hydrogen Technologies and Processes Modeling and optimization Experimental activities in H2 technologies