



HYDROGEN SUMMER SCHOOL

6/7/8/9-June-2023

ENEA Casaccia Research Centre

Sponsored by



School Program

Tuesday 06/06/2023

10:00 **Registration**

11:00 **School Welcome session**

Giorgio Graditi
Roberto Cianella
Gaetano Iaquaniello

ENEA
MASE
AIDIC

Cristina Maggi

H2IT

11:30 **Hydrogen value chain- State of the art**

Paolo De Filippis
Giorgio Vilardi

University of Rome La Sapienza
University of Rome La Sapienza

Question time

12:45 *Lunch*

Fundamentals of hydrogen economy

14:00 Federico Bonini
Fundamentals of Hydrogen Economy

BOSTON CONSULTING GROUP

14:40 Gerado Lancia
Capital budgeting & pricing strategy to a Green H2 Valley business case

Lazio Innova

15:20 *Question time*

15:30 *Coffee break*

15:45 **Laboratory Technical Tour**

17:30 End of day one

Wednesday 07/06/2023

09:00 **Welcome session**

Economic and Financial aspects of hydrogen production technologies

09:10 David Armaroli ENEL
How much does it cost 1 kg of green hydrogen today?

09:50 Claudio Bani SIAD
GH₂ production and distribution costs: Steam Reformer case

Question time

10:40 *Coffee break*

11:00 Claudio D'Angelo ERREDUE
Economic aspects of hydrogen production technologies

11:40 Christian Urgeghe DeNora
Alkaline Water Electrolysis 2.0: an Upgraded Technology for Hydrogen's Millennium

Question time

12:30 *Lunch*

Case study

13:40 Alberto Giaconia ENEA
PROMETEO

14:10 Alessia Borgogna MyRechemical
Waste to Hydrogen

14:40 Enrico Gottardo ANSALDO
Ansaldo Contribution to the National Electrolizer Gigafactory

15:20 **Interactive Session 1**
Part 1

17:00 End of day two

Thursday 08/06/2023

09:00 **Welcome session**

Economic aspects of hydrogen transport and distribution in the gas grid and sector coupling

09:10 Dina Lanzi SNAM
Techno/Economic aspects of hydrogen transport in the gas grid

09:50 Ruggero Bimbatti ITALGAS
The pivotal function of the gas grid to exploit the hydrogen potential

Question time

10:40 *Coffee break*

Economic aspects of hydrogen use in mobility

11:00 Damiano Micelli LANDI RENZO
Landi Renzo's experience in the management of hydrogen for the mobility sector

11:40 Luca Vetrone TOYOTA
Hydrogen as a key technology toward Sustainable Mobility for Toyota

Question time

12:30 *Lunch*

Economic aspects of hydrogen use in industry

13:45 Elisabetta Mecozzi, Filippo Cirilli RINA
Hydrogen use in the Energy Intensive Industry

14:25 Pier Francesco Peppoloni T.EN Italy Solutions
Hydrogen use in hart to abate sector

15:05 Benedetta Brighenti AESS Agenzia per l'Energia e lo Sviluppo
Sostenibile

Hydrogen like a local economic progress vehicle

Question time

15:55 *Coffee break*

16:10 **Interactive Session 2
Part 2**

18:00 End of day three

19:00 Social program

Friday 09/06/2023

09:00 **Welcome session**

09:10 **Round Table Safety codes and standards**

Paola Russo,
An Introduction to H₂ Safety

University of Rome La Sapienza

Jacopo Moretti
Fire Prevention Technical Rule for Hydrogen Production using Electrolyzers

CNVVF

Simone Mausoli
International code and standards for Hydrogen Value Chain

Bureau Veritas

10:20 Ilaria Catastini
Shaping future leaders: the humanistic engineer as a transformation agent in the path towards energy transition and sustainable development

Maire Foundation

10:45 *Coffee break*

11:00 **Interactive Session, close-out**
Team presentation

12:40 Attendance Certificate

12:50 **Summer School, close-out**
Giorgio Graditi

ENEA

13:00 End of Summer School