

	Monday, 10 th	Tuesday, 11 th	Wednesday, 12 th	Thursday, 13 th	Friday, 14 th
	Strategies and challenges of energy transition	Green fuels from biomass and waste	Power to green hydrogen	Hydrogen derived renewable fuels	Carbon capture and storage
09:00–09:45	Registration and welcome 9:30 Opening ceremony (Mario Porcu , Sotacarbo CEO, with the participation of	Hydrogen production by biomass and waste gasification (Massimiliano Materazzi , University College London, United Kingdom	Green hydrogen production by water electrolysis (Jesús Rodríguez Ruiz , Centro Nacional del Hidrógeno, Spain)	Renewable fuels by means of electrochemical processes (Manuel Alvarez Guerra , University of Cantabria, Spain)	CO ₂ capture technologies for industrial decarbonization: overview and process modelling (Manuele Gatti , Politecnico di Milano, Italy)
09:45–10:30	- Pietro Morittu (City Major of Carbonia) - Fabrizio Pilo (University of Cagliari) - Fabio Tore (Regional Government of Sardinia)	Experimental development of bubbling fluidized-bed gasification: a case study (Francesco Parrillo , University of Campania, Italy)	H ₂ production, storage and distribution: The Project H2IseO, Valcamonica Hydrogen Valley (Matteo Tirindelli , Rina Consulting, Italy)	Thermochemical processes for e-fuels (Michele Mascia , University of Cagliari, Italy)	An introduction to CO ₂ Geological storage (Sabina Bigi , Sapienza University of Rome and CO ₂ GeoNet, Italy, and Roman Berenblyum , NORCE and CO ₂ GeoNet, Norway)
10:30–11:15	The European and Italian strategies for energy transition (Marcello Capra , Ministry of Environment and Energy Security, Italy)	Biofuels production and use (Aimaro Sanna , Heriot Watt University, UK)	Renewable hydrogen production costs (Cristina Maggi , H2IT, Italy)	Sustainable Aviation Fuels: Prospects for Decarbonizing Air Transport (Mohammed Pourkashanian , University of Sheffield, UK)	
11:15–11:45	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
11:45–12:30	The European “fit for 55” package and the role of e-fuels (Tudy Bernier , CO ₂ Value Europe, Belgium)	Towards circular economy: waste biorefinery for carbon neutrality (Muhammad Farooq , University of Engineering and Technology Lahore, Pakistan)	Prospects for hydrogen as clean transport fuel (Carlos Merino , Centro Nacional del Hidrógeno, Spain)	System modelling of power-to-fuels processes (Preeti Aghalayam , IIT Madras, India)	CCUS: economic issues (Matthias Finkenratk , Kempten University of Applied Science, Germany)
12:30–13:00	Q&A	Energy storage technologies for sustainable renewable energy (Giorgio Cau and Mario Petrolese , University of Cagliari, Italy)	Sotacarbo advanced projects on green hydrogen and renewable fuels (Alberto Pettinau , Sotacarbo, Italy)	The Prometheus project (Vittorio Tola , University of Cagliari, Italy)	Intellectual property management (Alessandro Leganza , Venice IP, Italy)
13:15–14:30	Lunch	Lunch	Lunch	Lunch	Lunch
14:30–15:15	The US strategies on energy transition (Bhima Sastri , US Department of Energy, USA)	School Workshop #1 Energy trends in the United States (Bhima Sastri , US Department of Energy, USA)	School Workshop #3 The European international programme on green hydrogen (Griselda Lambertini , University of Buenos Aires, Argentina)	Excursion to the amazing Sulcis coast	Final tests (for students requiring university credits, ECTS)
15:15–16:00	The Australian strategies on energy transition (Noel Simento , Australian National Low Emissions Coal R&D, Australia)				Closing Ceremony
16:00–16:30	Coffee break	Coffee break	Coffee break		
16:30–17:15	Visit of Sotacarbo labs and pilot platform	School Workshop #2 Advanced modelling for the development of novel energy technologies (Mehrdad Shahnam , NETL, USA)	Workshop #4 Production PeM electrolyzers: THE IMI Vivo example (Alberto Pedrini , IMI Vivo, Italy)		
17:15–18:00					
20:00	Icebreaking dinner			End of School dinner	