

SECOND STORIES SUMMER SCHOOL 2024 'HYBRID ENERGY STORAGE AND APPLICATION-ORIENTED SOLUTIONS IN EUROPE'

The Second StoRIES Summer School 2024 entitled "Hybrid energy storage and application-oriented solutions in EU" will be held in Rome in Italy (Complesso Eni Gazometro di Roma, Via Ostiense 72, 00154 Roma) between 3 June and 6 June 2024.

The main objective of the Summer School is not only to provide a general overview of a combination of various energy storage technologies (electrochemical, chemical, thermal, electrical and mechanical energy storage), but to suggest innovative hybrid solutions at different levels (from industrial-, to grid-, microgrid-, and domestic-scale applications) for early-career researchers (MSc, PhD students and postdoctoral researchers within 2 years after PhD). Well-recognized experts will share insights on the issues related to hybrid energy storage applications. A detailed schedule of the Summer School can be found below.

Second StoRIES Summer School 2024 Venue: Complesso Eni Gazometro di Roma, Via Ostiense 72, 00154 Roma					
Travelling	09:30 Session 2 (BUIL):	09:30 Session 5 (GRID):	09:30 Group Work Results – Day 1		
	 Hybridisation of vanadium flow batteries – Dr. Peter Fischer, Fraunhofer ICT (45') Integration of battery-flywheel energy storage systems in residential micro-grid – Prof. Linda Barelli, Uni. of Perugia (45') 	 Hybrid Renewables with Storage Technology Stack for Valuation, Planning, Design, and Operations – Dr. Randell Johnson, Acelerex (45') Integration of Storage in Transmission & Distribution Grid: why, where and how? – Prof. Maria Carmen Falvo, Sapienza Uni. Of Rome (45') 	 Introduction (5') BUIL: Group 1 (15') + Q&A (5') OFF: Group 2 (15') + Q&A (5') TRA: Group 3 (15') + Group 4 (15') TRA: Q&A (10') Evaluation of presentations (5') 		
	11:00 Coffee Break	11:00 Coffee Break	11:00 Coffee Break		
	 11:30 Session 3 (OFF): Hybrid systems in Off-grid and Energy Islands: comparison of case studies with and without 	11:30 Session 6 (IND):Hybrid Energy Storage for Renewable Energy Sources	11:25 Group Work Results – Day 2 GRID: Group 1 (15') + Group 2 (15') GRID: Q&A (10')		



	hybridization – Dr. Davide Aloisio, CNR ITAE (45') • Hybrid hydrogen-battery storage systems for communities: analysis from field experiences and sizing optimization – Prof. Massimo Santarelli, Polito (45') 13:00 Lunch	Integration in Industrial Grid – Prof. Asmae Berrada, UIR (45') The role of Energy Storage with Renewable Electricity Generation – Dr. Giacomo Gorni, Eni (45')	 IND: Group 3 (15') + Group 4 (15') IND: Q&A (10') Evaluation of presentations (5') 12:50 Summer School Closing Remarks Prof. Stefano Passerini, KIT (10') 13:00 Lunch
	 14:00 Session 4 (TRA): Vehicle Grid Integration Technologies: how unlock value of EV batteries by providing flexibility services – Dr. Davide De Michino, Enel X (45') Electric energy storage for future aero mobility – Dr. Francesco Mastropierro, AIT (45') 	14:00 Group Work: Case Studies Day 2 Group 1: GRID Group 2: GRID Group 3: IND Group 4: IND	Departure
15:30 Registration	15:30 Coffee Break	16:00 Transfer to meeting point for the Social Event (in your own)	
16:00 Session 1 (HES):Welcoming – Prof. Stefano	16:00 Group Work: Case Studies Day 1	16:30 Social Event City Tour	
Passerini, KIT (15')	Group 1: BUIL	Meeting Point: Circus Maximus	
• Eni's vision for storage – Dr.	Group 2: OFF	Via del Circo Massimo 21	
Alessandra Tacca or Monica	Group 3: TRA		
Spada, Eni (20')	Group 4: TRA		
StoRIES Overview – Dr. Myriam Cil Bordsif (KIT (20!))			
E. Gil Bardají, KIT (20')StoRIES: Developing the			
Stories: Developing the Roadmap and SRIA for			



Hybridisation of Energy Storage – Dr. Roberto Scipioni, SINTEF (20') 17:15 Speed Poster Presentations (1 minute each)			
18:15 Poster Session & Dinner (Finger Food)	18:00 Free Time		
21:00 Free Time		20:30 – 22:30 Networking Dinner Restaurant: Gli Specialisti Piazza in Piscinula 50, 00153 Roma	