



ReNoN Workshop

Optimization, Energy Planning and Integration of Multi-Energy Systems for Decarbonization Pathways

Faculty of Engineering, Free University of Bozen-Bolzano
NOI Techpark – building B1, room B1.1.01

10 July 2026

WORKSHOP PROGRAM

Welcome & Opening Remarks

8:30 9:00 Welcome by Prof Renzi and Dr Alberizzi

Keynote lectures

9:00 9:45 Optimization and Flexibility of Renewable Energy Communities
Tommaso Ferrucci, Davide Poli, Davide Fioritiv

9:45 10:30 Smart Energy Systems in Desalination: The IDIWATER Project as Case Study
Pedro J. Cabrera Santana

10:30 11:00 Network Activity

Session 1: New Technologies

11:00 11:30 Hydrogen: A Green and Safe Molecule Ready for the Decarbonization
Marco Belloni

11:30 12:00 H₂ – Risks and Typical Scenarios in the Safety Design
Nelson Righetti

12:00 12:15 When Does Hydrogen Become Cost-Effective for Seasonal-Load Prosumers in South Tyrol?
Lorenzo Gambadori, Jacopo Carlo Alberizzi, Marko Keber, Massimiliano Renzi

12:15 12:30 Modelling of Hydrogen-Enabled Energy Systems
Urban Žvar Baškovič, Žiga Rosec, Tomaž Katrašnik

12:30 13:30 Long Coffee Break



Session 2: Energy System Modeling

13:30	14:15	Optimization-Based Prosumer Control for Integrating Flexibility with pandaprosumer <u>Carl Ritzenhoff</u> , <u>Pratikshya Mohanty</u> , Ruben Schauer
14:15	14:30	From Algorithm to Deployment: A Multi-Agent EV Orchestrator for Public Charging Flexibility <u>Manuel Antonio Perez Estevez</u> , Lorenzo Nespoli, Vasco Medici, Roberto Rocchetta
14:30	15:00	Networking Activity

Session 3: Applications

15:00	15:15	Renewable Energy Community Addressing Urban E-Mobility Sharing: Environmental, Energy and Economic Advantages from an Italian Case Study Mariano Gallo, Elisa Marrasso, <u>Chiara Martone</u> , Giovanna Pallotta, Carlo Roselli, Maurizio Sasso
15:15	15:30	Towards a Fair REC Revenue Distribution Through a Hybrid Energy Consumption and Solidarity Model Application Elisa Marrasso, Chiara Martone, <u>Ilenia Perugini</u> , Carlo Roselli
15:30	15:45	Economic MPC for Multi-Vector Energy Systems in Carbon-Neutral Mountain Huts: A Methodological Framework <u>William D. Chicaiza</u> , Elisabetta Tedeschi
15:45	16:00	Decarbonization of an Alpine Hut in the Trentino Region Niccolò Andreetta, <u>Malik Ali Judge</u> , Elisabetta Tedeschi
16:00	17:00	Laboratory Visit
17:00	17:30	Workshop Closing

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BOOK OF ABSTRACTS AND THE PROGRAM:

