



## SPECIAL SESSION XII

### Energy communities for energy-efficient and flexible production and consumption

ORGANIZED AND CHAIRED BY

- **Stefania Conti**  
University of Catania, Italy
- **Alessia Cagnano**  
Politecnico di Bari, Italy

Energy Communities are a new paradigm that involves the interaction of users located near green energy production sites in order to realise systems with high standards of social, economic and environmental sustainability. This session will host papers on the development of energy communities that share self-generated energy and can generate locally an annual surplus of renewable energy production, which can be exchanged with the electricity system and provide flexibility services for electricity grid operators.