## **CLOE** Doctoral Program **Electrification and Digitalization of Remote Regions**

Presented by: Muhammad Asim Amin Supervisors: Renato Procopio, Marco Invernizzi





## **Energy Trading**

**Photovoltaic Power Forecasting Results Comparison** 

Consumer can participate in energy management, aided by smart technologies

Decision optimized through Localized Control

## **Future Goals**

**Secondment Period:** Photovoltaic and storage system in Microgrid's (University of Nis, Serbia).

Direct energy transaction between producer in P2P

Enables **Innovative Trading model**, and highly flexible.

Focus on **Local Energy Exchange** within Community or Neighbour

Enhance Grid Resilience, reduce the risk of blackout.

**Encourage the adoption and** integration of Renewable Energy **Resources** 

Implementation of Energy Trading Platform Through **Innovative Trading Model using Machine Learning.** 

Further **Enhance the PV Forecasting** model, by integrating more metrological variables.

**Extend the model of current EMS system at SAVONA CAMPUS Microgrid.** 









**CLOE Doctoral Programme** 

Project funded under the H2020-MSCA-COFUND-2020 scheme (G.A. n 101034449) and cofounded by Fondazione Compagnia di San Paolo

