



List of Candidates for the Master's Degree in Energy Engineering

October 27th 2025 - Room 2Q at 9:00 AM

- 9:00 AM – ID **246485**

Thesis title: PRELIMINARY DIMENSIONING OF THE TERNARY UNITS FOR VERY HIGH HEAD PUMPED-STORAGE HYDROPOWER PLANTS

Supervisor: Massimiliano Renzi

- 9:20 AM – ID **248153**

Thesis title: TECHNO-ECONOMIC BENEFITS OF MULTIPLE ENERGY STORAGE ASSETS WITH GRID-FORMING CONVERTERS IN LOW-CARBON POWER GRIDS

Supervisors: Vincenzo Trovato

- 9:40 AM – ID **246864**

Thesis title: OPTIMIZATION OF PUMPED HYDRO STORAGE SYSTEMS IN THE ALPS

Supervisors: Maurizio Righetti

- 10:00 AM - ID **249025**

Thesis title: ASSESSMENT OF OFFSHORE WIND POTENTIAL IN ITALY: NEW INSTALLATIONS AND INTER-PARK WAKE ANALYSIS

Supervisors: Lorenzo Battisti



- 10:20 AM – ID **248376**

Thesis title: TECHNO-ECONOMIC OPTIMIZATION OF PV AND HEAT PUMP INTEGRATION USING A TRNSYS-BASED MODEL

Supervisors: Alessandro Prada

- 10:40 AM - ID **245714**

Thesis title: DYNAMIC SIMULATION MODEL FOR OPERATIONAL OPTIMIZATION OF GROUND SOURCE HEAT PUMP SYSTEMS

Supervisors: Alessandro Prada

SOLO PROCLAMAZIONE

- ID **250215**

Thesis title: ECONOMIC ANALYSIS OF EUROPEAN CITY FACILITY (EUCF) AND TECHNICAL DESCRIPTION OF ITS POSSIBLE IMPLEMENTATION: GALWAY CASE STUDY

Supervisors: Massimiliano Renzi

- ID **250211**

Thesis title: DEVELOPMENT OF A TGA-BASED METHODOLOGY FOR CLASSIFYING BIOMASS IN ORDER TO ORIENT IT TOWARDS BETTER RECOVERY ROUTE

Supervisors: Luca Fiori



- **ID 250214**

Thesis title: ENHANCING SUSTAINABILITY IN LOGISTICS INFRASTRUCTURE. A MOUNTING DEMAND IN A GLOBALIZED WORLD

Supervisors: Alessandro Prada

- **ID 250213**

Thesis title: ESTABLISHING CREDIBLE LOW-CARBON CLAIMS IN INDUSTRIAL GASES: A FRAMEWORK FOR MASS BALANCE CERTIFICATION, CARBON FOOTPRINT OPTIMIZATION, AND STAKEHOLDER COMMUNICATION

Supervisors: Margherita Molinaro

- **ID 250212**

Thesis title: DEVELOPING A DYNAMIC TOOL FOR CALCULATING SPECIFIC REQUIREMENTS IN GREEN HYDROGEN PRODUCTION (SOLAR PV POWERED)

Supervisors: Vittoria Benedetti