Gionata Luca

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Education

University of Padua Padua, IT
State Examination to qualify as an Industrial Engineer *Sep. 2023*

University of Padua Padua, IT
Energy engineering MSc *Apr. 2023*

- Main Modules: Applied energy, Energy systems, Refrigeration and HP technology, Renewable energy technologies, Wind and Hydraulic turbines
- Thesis: Incentivizing green hydrogen generation: proposal of an incentive scheme and its evaluation in case studies
- Vote: 110 cum laude

University of Padua Padua, IT
Energy engineering BSc *Jul. 2020*

Experience

Sustainable Energy centre at Fondazione Bruno Kessler Trento, IT
Researcher, HyRES Unit - Hydrogen technologies and Resilient Energy Systems *Jan. 2023 – Presente*

- Actively involved in European projects funded through Horizon and LIFE calls, with the aim of promoting the development of Renewable Energy Communities (RECs)
- I provide strategic consulting and collaborations in the field of hydrogen, focusing on the sizing of electrolysis plants for the generation of renewable hydrogen. My responsibilities include detailed analysis of technical requirements, component costs, and studies to assess the economic viability of hydrogen production through this technology
- In the scope of my research activities, I have conducted in-depth literature analyses on various technologies, with a specific focus on hydrogen production. Currently, I am overseeing the preparation of a scientific article dedicated to the production costs of hydrogen, highlighting current differences compared to traditional fuels and identifying existing cost gaps. Concurrently, I actively participate in conferences and research webinars within my field

Sustainable Energy centre at Fondazione Bruno Kessler Trento, IT
Tesist *Sep. 2022 – Apr.2023*

- Developed an incentive mechanism to enhance the economic viability of green hydrogen production, addressing the current high costs
- Proposed a remuneration-based scheme for hydrogen production, with contributions linked to both investment and operation costs
- Performed versatile models in Excel and Python to evaluate the proposed incentive in specific case studies
- Quantified the required incentive for hydrogen production, contributing to the advancement of green hydrogen initiatives in alignment with environmental targets

Certifications & Trainings

Maps Group Webinar *Oct. 2023*

- ROSE Energy Community designer - software for the preliminary simulation of CERs to estimate energy and economic performance in the light of the new regulatory framework defined by the TIAD and the draft MASE decree

AEIT Webinar series *Jul. 2023*

- Technical, legal, contractual aspects and social implications of Renewable Energy Communities for an ethical electrification of electricity systems

FEDABO Webinar *May 2023*

- Energy Communities - Implementation of legislation and expected impact of incentives

Mission Hydrogen Webinar series *May. 2023 - Present*

- Hydrogen Trucks and Infrastructure
- Thermochemical Hydrogen production
- Hydrogen from biomass
- Solar vs. Wind vs. Electrolyzer Size
- Green Hydrogen for refineries

Skills & Interests

Languages: Italian (Native), English (Fluent)

Technical Skills: Microsoft Office Suite (esp. Word, Excel, PowerPoint), MATLAB, Simulink, Python, ANSYS, REFPROP

Interests: Enthusiastic about sports, when possibile I play tennis, football and more rarely ski. I find joy in mountain excursions and beach vacations, always eager to explore new corners of the world. I also have a passion for cooking. I appreciate both intellectually stimulating and physically engaging board games, such as chess and table tennis. Additionally, I occasionally enjoy reading scientific essays, particularly those centered around science and astronomy.