

ANTONIO SGARAMELLA

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TERLIZZI (BA), Italy

EDUCATION

01/2022- 01/2025

INDUSTRIAL PHD IN ENERGY AND ENVIRONMENT, SAPIENZA UNIVERSITY OF ROME, EDISON S.P.A, ITALY

- March 21, 2022. Oral presentation at the „*World Online Conference on Sustainable Technologies*“. Title of the work “Increasing the Italian RES installation targets for accomplishing the electrolyzers capacity goals set by the Italian Hydrogen Strategy”.
- September 14, 2023. *Conference ATI 2023*; presented work: “Hydrogen volumetric fraction effects on HCNG refuelling station CAPEX”.
- September 26, 2023. “*Conference on Sustainable Development of Energy, Water and Environment Systems*”. Presented work: “HCNG refuelling station to accelerate the transition towards a real hydrogen economy: a techno-economic analysis”.
- Research paper “**Optimal RES integration for matching the Italian Hydrogen Strategy requirements**” published on Renewable Energy Journal.
<https://doi.org/10.1016/j.renene.2023.119409>
- Review Paper entitled „**Recent progresses in H2NG blends use downstream Power-to-Gas policies application: An overview over the last decade**” published in „International Journal of Hydrogen Energy”.
<https://www.scopus.com/record/display.uri?eid=2-s2.0-85163799035&origin=resultslist&sort=plf-f>
- Research paper “**How the cylinder initial conditions affect the HCNG refuelling process - A thermodynamic analysis to determine the most effective filling parameters**”, published in „International Journal of Hydrogen Energy”.
<https://www.sciencedirect.com/science/article/abs/pii/S0360319923038764>
- Research paper “**Hydrogen volumetric fraction effects on HCNG refuelling station CAPEX**”.
DOI: [10.1088/1742-6596/2648/1/012064](https://doi.org/10.1088/1742-6596/2648/1/012064)
- Research paper “**Decarbonization of methanol production - Techno-economic analysis of Power-to-Fuel process in a Hydrogen Valley**”.
DOI: [10.1088/1742-6596/2648/1/012066](https://doi.org/10.1088/1742-6596/2648/1/012066)
- Research paper “**Potential Role of green hydrogen as an energy carrier in smart energy system communities**”.
DOI: [10.1088/1742-6596/2648/1/012096](https://doi.org/10.1088/1742-6596/2648/1/012096)

02/2019- 05/2021

ENERGY ENGINEERING, MASTER GRADUATION, SAPIENZA UNIVERSITY OF ROME, ITALY

- Renewable Energy sources and energy management specialization;
- Final grade: 110/110;
- Master thesis title: „Renewable installation targets review in the light of the Hydrogen Roadmap Italy: energy-economic simulation”

02/2020-07/2020

ERASMUS + (ENERGY ENGINEERING), BUDAPEST UNIVERSITY OF TECHNOLOGY
AND ECONOMY, HUNGARY

2015-2018

ENERGY ENGINEERING, BACHELOR GRADUATION, SAPIENZA UNIVERSITY OF
ROME, ITALY

- Graduation bachelor thesis: 'Industrial UVCE Environmental Impact estimation';

LANGUAGE SKILLS

- **Italian**
Native language
- **English**
Understanding: C1
Speaking: C1
Writing: C1

OTHER SKILLS

- MS Office
- Python
- Matlab
- Simulink
- EnergyPLAN
- B driving licence