

MARIO LAMAGNA

● WORK EXPERIENCE

DIDACTIC TUTOR – UNIVERSITY OF ROMA SAPIENZA

I worked as a didactic tutor for the Master in Strategy of Energy Management Systems, where I had the opportunity to meet prominent experts in both the academic and industrial sector coming from ENEA, ENEL, GSE and TERNA.

● EDUCATION AND TRAINING

PH.D. ENERGY AND ENVIRONMENT ENGINEERING – Sapienza University of Rome

My PhD deals with the implementation and capitalisation of a reversible Solid Oxide Cell (rSOC) in different building contexts following the development of two Horizon 2020 projects, GIFT and REFLEX. Additionally, I am working on an INTERREGMED project PRISMIPLUS and the project YENESIS. The experience gained in managing different projects, with different partners and objectives taught me how to deal with parallel tasks and incoming different deadlines, relying on good organization and problem-solving attitude.

Field(s) of study

- Engineering, manufacturing and construction: *Electricity and energy* | *Environmental protection technology*

https://phd.uniroma1.it/web/ENERGY-AND-ENVIRONMENT_nD3496_EN.aspx

BAREXAMINATION – The Italian Board for Professional Register of Engineers

Approval from The Italian Board for Professional Register of Engineers to be officially registered as engineers in the National Board.

<https://www.ording.roma.it/>

MASTER DEGREE – Sapienza University of Rome

The two year Masters Degree aims to provide a specialized education through an in-depth study of the various disciplines that deal with power plant questions, such as control and management of the different technologies and energy generation control systems of plants powered by fossil fuel, renewable energy sources and nuclear power. To further study and explore each of these topics, the Master Degree provides specific differentiated programmes, all the classes were given in English.

Field(s) of study

- Engineering: *Electricity and energy* | *Environmental protection technology*

Thesis: Application of rSOC-

based smart energy hub to mixed use buildings decarbonization 110/110 with honors

ERASMUS+ – University of Navarra-TECNUN

Erasmus+ mobility of 9 months. The TECNUN is considered one of the best engineering schools of Spain and has many contacts and interchanges with the surrounding industrial realities, the backbones of the Basque country economy, such as Gamesa and Arcelor Mittal to say a few. During my period abroad I was able to learn with proficiency Spanish which nowadays helps me to maintain my contacts with Latino American research centers and industries.

<https://tecnun.unav.edu/>

Field(s) of study

◦ Engineering, manufacturing and construction

Thesis: The on-field test comparison of two DHW storage systems for thermal solar technology. 98/110

LANGUAGESKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH C1		C1	B2	B2	B2
SPANISH C2		C2	C1	C1	B2
FRENCH B1		B2	B1	B1	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITALSKILLS

Proficient in using Microsoft Office | Basic knowledge in MATLAB and Simulink | DIALux Software

DRIVING LICENCE

Driving Licence: B

PROJECTS

GIFT- Geographical Islands Flexibility

<https://www.gift-h2020.eu/>

GIFT is willing to develop innovative systems to allow islands to integrate vast amount of renewables. Through the development of multiple innovative solutions, such as a virtual power system, visualisation of those data through a GIS platform, and innovative storage systems allowing synergy between

electrical, heating and transportation networks. I am directly involved in the final implementation of the technological solution to be implemented in the Italian case study of Procida, outside my technical role as engineer, I actively work to simplify the communication between the Italian municipality and the technological provider partner (Sylfen). This latter, appreciating my work, decided to co-finance my PhD scholarship to collaborate also on other projects.

REFLEX- Reversible solid oxide Electrolyzer and Fuel cell for optimized Local Energy mix

<https://www.reflex-energy.eu/>

The REFLEX project aims at developing an innovative renewable energies storage solution, the "Smart Energy Hub", based on reversible Solid Oxide Cell (rSOC) technology, that is to say, able to operate either in electrolysis mode (SOEC) to store excess electricity to produce H₂, or in fuel cell mode (SOFC) when energy needs exceed local production, to produce electricity and heat again from H₂ or any other fuel locally available.

My role is to follow the deployment phases which are taking place in Turin (Italy) at Environmental Park to supervise the works for Sylfen and to monitor the SOC functioning.

PRISMIPLUS- Transferring a toolkit for RES Integration in Smart Mediterranean Islands and rural areas

<https://prismi.interreg-med.eu/>

Prismi Plus aims to transfer a user-friendly toolkit to enhance the renewable energy penetration in small islands and rural areas in the Mediterranean. I participated at the project writing, and I was elected as the communication manager from the partner committee. Moreover, I am in charge to oversee and plan the project activities with Spanish and French cases proposed by the Programme as horizontal activities outside the project itself where our group role is to support the island of Ventotene in the toolkit uptake in its territory.

YENESIS-Youth Employment Network for Energy Sustainability in Islands

<https://yenesi.eu/about/>

YENESIS is a project funded by Iceland, Liechtenstein and Norway through the EEA Fund for Youth Employment. It addresses the challenge of unemployment for young people that are Not in Education, Employment or Training (NEET) in islands. Since young professionals in islands may face several challenges such as limited job opportunities that often requires years of experience that leads to a vicious cycle of a lack of job-lack of experience situation, YENESIS will reduce unemployment by creating green jobs in the four areas of energy efficiency, renewables, sustainable tourism, and mobility. During the project, I am supporting the NEETs during the training programs that they are following in Italy as well as abroad with our international partners.

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