



Maryam SADIGHI, PhD


Energy Engineer & Economist



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 Île-de-France

Summary

Expert in the energy and environment sector, backgrounds in engineering, economics, and management. Skilled in research, strategy development, and energy system modeling, with a strong interest in public policy and sustainable innovation. Passionate about learning and growth, I seek opportunities to apply my expertise to support energy transition.

Digital Skills

- **Microsoft Office** – Excel, Word, PowerPoint
- **Python** – Data analysis, modeling, optimization
- **MATLAB** – Energy system simulation
- **LaTeX** – Scientific writing and documentation

Technical & Analytical Skills

- Energy system modeling
- Dynamic optimization & numerical simulation
- Cost-benefit analysis & scenario analysis
- Public policy simulation & economic assessment





Soft Skills

- Adaptability and Flexibility
- Analytical Thinking and Problem-solving
- Project Management
- Communication, Teamwork, & Interpersonal skills

Languages

- **English:** Full Proficiency
- **French:** Limited Proficiency
- **Persian:** Native

References

-  [Jan MERTENS](#), Chief Science Officer at ENGIE
-  [Elodie LE CADRE](#), Director of the Recycling Business Unit at Veolia
-  [Maria-Eugenia SANIN](#), Associate Professor at Université Paris-Saclay
-  [Jean-Pierre PONSSARD](#), Emeritus Research Director at CNRS

Experience

- **Research Project Lead** | July 2021-June 2025
ENGIE Research and Innovation (R&I), ENGIE SA, France
 - Investigating techno-economic viability of clean hydrogen technologies for industrial energy transition: Analyzing data, interpreting results, and generating insights to inform strategic decision-making and policy development.
 - Contributing to research reports, publications, and presentations for academic and industry audiences.
- **Associate Researcher** | July 2021-July 2025
Chair Energy Prosperity of École Polytechnique, La Fondation du Risque, France
 - Conducting Cost-Benefit Analysis of the Industrial Energy Transition
- **Energy Analyst: R&D Intern** | Apr-Sep 2020
EDF R&D Lab Les Renardières, France
 - Techno-Economic modeling of photovoltaic production and self-consumption in the tertiary sector
- **Product Control Systems Engineer: R&D Intern** | Jun-Sep 2017
Zagross Co, Iran
 - Developed and implemented product control systems to optimize manufacturing processes for commercial refrigerators and freezers.
- **Aircraft Engineer: R&D Intern** | Jun-Sep 2016
IRAN Air, Iran
 - Participated in practical training on aircraft general familiarization, gaining hands-on experience with various aircraft systems and components and troubleshooting exercises

Education

- **University of Paris-Saclay, Paris, France** | Nov 2021- June 2025
Ph.D. in Energy Economics
- **EIT InnoEnergy Master School** | Aug 2018- Sep 2020
Double Degree MSc. in Renewable Energy (RENE)
(Awarded full scholarship by KIC InnoEnergy)
 - **École Polytechnique, Paris, France** | Sep 2019- Sep 2020
M.Sc. in The Energy Environment: Science Technology and Management (STEEM)
 - **KTH Royal Institute of Technology, Stockholm, Sweden** | Sep 2018- June 2019
M.Sc. in Energy Innovation
 - **ESADE Business & Law School, Barcelona, Spain** | Sep 2018- July 2019
Entrepreneurship and Strategic Innovation Course
- **University of Tehran, Tehran, Iran.** | Sep 2012- July 2017
B.Sc. in Mechanical Engineering

Conferences

- **Presentation of the Paper: "Green Hydrogen and Green Growth - Evaluating the Macroeconomic Impacts of Energy Transitions in SOEs"**
- 46th **IAEE International** Conference, Paris | June 2025
 - **Presentation of the Paper: "A Merit-Order for End-Uses of Hydrogen"**
- 29th **EAERE** Annual Conference, Leuven | July 2024
- 18th **IAEE European** Conference, Milan | July 2023
 - **Presentation of the Paper: "Cost-Benefit Analysis of Clean Technology Demonstrators: Insights for Decarbonizing Hard-to-Abate Industries"**
- **SESTEF** International Conference, Paris | December 2022
- **INRAE** International Conference, Paris | May 2022
- 43rd **IAEE International** Conference, Tokyo | July 2022

Patent

- **An air-conditioned motorcycle helmet using solar system**, Iran Intellectual Property Office (registration number: 94283) | July 2017