



ANDREA LENOTTI

EXPLORER

ENERGY ENGINEER |
FUSION TECHNOLOGIES &
TECHNOLOGY
ROADMAPPING | EUROPEAN
ENERGY COOPERATION

SOFT SKILLS

Technology Assessment & Roadmapping

- Technology breakdown of complex systems and comparative analysis of alternatives
- Technology maturity evaluation and development-gap identification

Strategic Leadership

- Project leadership through cross-disciplinary and design thinking
- Coordination and negotiation with emotional intelligence

Metacommunication

- Negotiation skills and active listening
- Empathy and interpersonal sensitivity

INGUE: IELTS B2 language certification achieved in 2021, skills further developed through completion of the Master's degree conducted entirely in English. Native Italian speaker, self-taught in Spanish.

CONTATTI

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HOBBY



Energy Engineer holding a Master's Degree in Energy and Nuclear Engineering (Politecnico di Torino, full English programme), specialised in advanced energy systems and frontier technologies, including nuclear fusion. Experienced in the techno-economic assessment of emerging technologies and in building analytical methodologies to decode complex European frameworks. Strong aptitude for technology breakdown, comparative analysis and the drafting of concise technical documentation. Motivated to contribute to F4E's Technology Development Programme, where technological development, analytical method and European cooperation converge.

EDUCATION

LM in Energy and Nuclear Engineering, Renewable energy system

Turin

Cross-disciplinary knowledge of energy, from production to sales, with a focus on sustainability, research and the future. The programme, conducted entirely in English, pays particular attention to new technologies (hydrogen, fuel cells, thermonuclear fusion) and adopts an international vision oriented towards cooperation and teamwork.

- **Thesis:** Economic Heterogeneity in Renewable Energy Communities: Comparison of Macro-Incentive Mechanisms in Europe

Bachelor's Degree in Industrial Automation Engineering (EQF-6)

Brescia

Fundamentals of mechanical engineering, with an introduction to programming languages, teaching aimed at the world of work.

- **Thesis:** Glass process optimisation for pharmaceutical applications.

Diploma ITIS mechanical engineering energy branch (EQF-4)

Mantua: Technical training, workshop experience with machines and their use.

PROFESSIONAL EXPERIENCES

October 2026 - Now

Fusion for Energy (F4E) - Barcelona

Trainee - Technology Development Programme

I support the TDP for fusion energy, contributing to the organisation of technical workshops and to the analysis of their results to map the critical technologies needed for ITER and future fusion power plants.

Through this experience, I am developing skills in:

- Technology Breakdown, Technology Assessment and Roadmapping
- Analysis and mapping of critical technologies in the fusion sector
- Preparation of technical reports and documentation
- Data visualisation with Power BI to support decision-making
- Collaboration in multidisciplinary, international engineering teams

May 2024 - October 2024

TRG team | Strategic Advisory - Milano

Energy strategy consultant

I have analysed the financial and operational profiles of large industrial and financial groups operating in strategic sectors such as infrastructure (airports, motorways) and insurance, with a view to structuring decarbonisation projects and energy storage systems.

Through this experience, I have developed skills in:

- Strategic and economic-financial analysis of complex organisations
- Feasibility assessment of energy transition projects
- Preparation of professional presentations using Excel and PowerPoint
- Strategic use of AI tools for analysis and reporting

TECHNICAL PORTFOLIO

I am passionate about fieldwork, I am an AVIS donor and supporter of AIRC research, and I am self-taught in 3D printing. During my university studies, I learned and used software such as C, Java, Modelica (LMD simulation within the ITER fusion reactor), Matlab, Simulink, DIALux (lighting technology), WaSP (wind turbines), and PLC programming via TIA Portal.

Certifications and courses:

AutoCAD® 2D, Autodesk® certificate of participation (2014)

Inventor®, Autodesk® certification (2015)

First Aid Course (2019)

Artistic Design Course, at a restoration company (2020)

Master's courses taken

Nuclear fusion reactor engineering, Elementi di fisica nucleare, Energy economics, Energy networks, Energy storage, Geothermal energy, Polygeneration and advanced energy system, Sistemi per l'illuminazione e controllo del rumore, Smart electricity systems, Solar photovoltaic system, Thermal design optimization, Thermal machines and structural machines, Wind and ocean energy plants.

Projects completed

Nuclear Fusion Reactor Engineering (EU DEMO): Modelica-based modelling and simulation of the refill circuit for the Liquid Metal Divertor, one of the critical enabling technologies for the European demonstration reactor. Analysis of system behaviour and plant-integration constraints.

Exergy cost and exergo-economic analysis of a Compressed Air Energy Storage (CAES) system. Feasibility study of a biogas-fed SOFC system. Floating offshore wind turbine: Victoria Island (Canada, Pacific coast). Optimal design of a storage unit. Relazione di Acustica. Relazione di illuminotecnica, ambiente esterno e interno. Repowering of a wind farm (Haringvlietdam, NL). Two-zone Thermal Energy Storage (TES) using Simulink environment for a civil application.