

Damien Pantalos

Energy Engineer



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Summary

I am an energy engineer focused on sustainable systems, AI and data. I hold two master's degrees and a first-class BEng, with training in economics and entrepreneurship. My experience spans EU policy, optimisation and project coordination.

Skills

Programming

Python, SQL

Data & cloud

PowerBI, Databricks, AWS

Energy modelling

Polysun VelaSolaris

Productivity

Microsoft Office

Experience

2026 - Present

Clean Hydrogen Partnership Joint Undertaking of European Commission

Project Officer in the Operations and Communications Unit

Brussels, Belgium

- Progressed from trainee to Project Officer, supporting grants and communication.
- Analyse clean hydrogen project data in the Knowledge Hub using PowerBI.
- Help shape the clean hydrogen research agenda for MFF 2028-2034.

2025

Elia Group

Internship / Master Thesis

Brussels, Belgium

- Developed a BESS revenue model spanning arbitrage and ancillary services.
- Implemented the optimisation model in Pyomo and solved it with Gurobi.
- Calibrated and validated the model using historical market data.

2023 - 2024

Vattenfall

Energy Analyst / Internship

Stockholm, Sweden

- Supported the Vattenfall-KTH project on Bristol's district heating network.
- Modelled technology and network options with techno-economic assessments.
- Recommended solutions based on cost and emissions trade-offs.

2021 - 2022

Synergia SA

Technical consultant in Maintenance and Operational service

Athens, Greece

- Monitored PV park data, resolved issues, and reported performance KPIs.
- Designed and developed three PV parks in Greece using CAD.
- Assessed hybrid PV-storage projects, regulations, and investment plans.

2024 - 2025

Six Senses Laamu

Energy Consultant / Internship

Maldives

- Audited resort energy use, targeting a 40% emissions reduction by 2030.
- Expanded on-site solar PV capacity to increase renewable generation.
- Assessed storage and renewable options to reduce fossil fuel dependence.

Education

2023 - 2025

Double Master's in Environomical Pathways for Sustainable Energy Systems

EIT InnoEnergy

Stockholm, Sweden /

Barcelona, Spain

- **KTH**: markets, conversion, renewables. **UPC**: AI, data and grid systems.
- **ESADE, Barcelona**: entrepreneurship and business operations.

2024

Summer School in Data Science & AI for energy engineers

KU Leuven, Belgium

Studied Python, AI, time series, and forecasting for energy flexibility.

2019 - 2023

BEng in Energy Engineering with Industry Year (First Class Honors)

De Montfort University, UK

Energy policy, storage, low-carbon technologies, design, and ANSYS.

Projects

2024 - 2025

Data-driven optimisation of heating/cooling system

UPC & EIT InnoEnergy

Analysed household electricity data with NILMTK to recommend heat pump capacities.

2023 - 2024

Helios: Foldable solar systems

ESADE & EIT

Validated a balcony solar business model through market research and consultation.

2022 - 2023

Bachelor thesis: Energy systems for net-zero communities

De Montfort University (DMU), UK

Compared renewable generation and storage scenarios for energy, cost, and impact.

2019 - 2021

IWES Project

CEO & Design Engineer

European School of Brussels I, Belgium

- Led IWES, an AI system estimating food waste in school canteens.
- Secured Nvidia sponsorship for technical development and AI integration.
- Prototyped the camera and electronics infrastructure using CREO.

Awards

2024

Schneider Electric Hackathon

Barcelona, Spain

1st prize: Smart Energy Strategy App for energy portfolio optimisation.

2014 - 2015

European Schools Science Symposium (ESSS)

Varese, Italy

3rd prize: Renewable-powered desalination model for clean water access.

Volunteering and community service

2017 - 2018

NGO Défie Belgique Afrique (DBA)

Brussels and Benin, Africa

Traineeship: farmer support, entrepreneurship, fundraising, and reforestation.

Languages

English - C1

French - native

Greek - native

Italian - A1

Dutch - A1

Other interests

Photography

Travel

Reading

Sport

Cooking

Swimming