

ENFLATE PROJECT NEWSLETTER

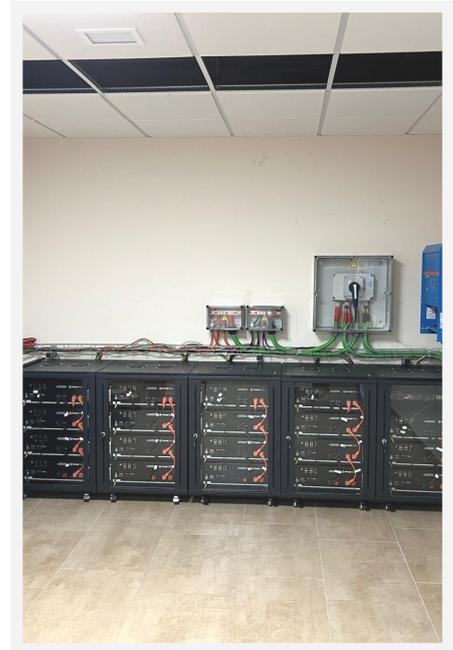
GOALS & TARGETS

The ENFLATE project aims at the flexibilization of Energy markets from TSOs down to end-consumers, using new and smart technologies to provide clean and easy-to-use solutions for the decarbonisation of the electricity market. The goals are aligned with the European Commission's policy framework (i.e., Clean Energy Package, FiT 55), seeking to decarbonise the energy system, encouraging the electrification of heat and transport, as well as the connection of more clean but intermittent generation.

THE CASE STUDY

'Promoting energy flexibility in Láchar' presents a model for future energy communities

As part of the EU-funded ENFLATE project, the municipality of Láchar in Granada, Spain, is pioneering an innovative approach to local energy flexibility management. Cuerva's initiative will integrate a flexibility management tool (FMT) with a battery energy management system (EMS) to improve grid stability and optimise the use of renewable energy. The demonstration focuses on a low-voltage grid segment that includes public buildings, such as the town hall and a school, as well as private users taking part in a Local Energy Community (LEC). The FMT is responsible for monitoring, predicting and responding to grid conditions in real time, while the EMS controls the charging and discharging cycles of a community battery installed in an industrial facility. This coordinated system is designed to mitigate surges and shortages, ensuring more efficient utilisation of locally generated renewable energy. The Láchar demonstration can serve as a model for the future development of energy communities that wish to combine the social aspect with technological innovation. The Láchar demonstration can serve as a model for the future development of energy communities that wish to combine the social aspect with technological innovation.



WHAT'S INSIDE?

Goals & Targets	1
The Case Study	1
Minds behind ENFLATE.....	2
Local Impact.....	2
ENFLATE @ Events	3
Contact.....	3

PROJECT DETAILS

Timeframe: September 2022 - August 2026

Budget: €14,314,162.00

**HORIZON EUROPE—
Innovative Actions:**
€ 7,686,305.00



<https://www.linkedin.com/showcase/enflate/>



<https://twitter.com/enflateproject>



<https://www.youtube.com/@enflate5366>



Co-funded by
the European Union

Meet The Minds Behind ENFLATE

Video Interview Series

In our exclusive interview series, we present the experts who are transforming Europe's energy systems through a focus on innovation, collaboration and practical applications. We have created four interview videos, which we will be examining in more detail below.

Louiza Kachrimani is head of research projects and fundraising at NOVA as well as ENFLATE's administrative projects coordinator. She gives an overview of the project's mission to support digital transformation, promote flexible services and engage citizens across Europe.

Katerina Drivakou is an energy systems researcher at UBITECH ENERGY and ENFLATE project coordinator. She discusses the future of the project, emphasising its commercial exploitation, market impact and consumer involvement.

Sébastien Rolland is senior project manager at EPEX SPOT, the provider of the flexibility market platform at ENFLATE. He goes on to explain how EPEX is contributing to the development of flexible market platforms, improving liquidity, and reducing the costs of the energy transition.

André Eggli is a research assistant at the Lucerne University of Applied Sciences and Arts and head of the flexibility market demo at ENFLATE. He provides insights on the adaptation of the Localflex platform to the Swiss context and the integration of various market players in the flexibility market.

Access the interviews via the link or QR code:

<https://www.youtube.com/@enflate5366>



Local Impact Flyer: Showcases ENFLATE Pilot Sites Powering Europe's Energy Future

Cuerva is piloting smart energy systems in **Láchar (Granada)** to support rural communities. The project enables consumers to participate in flexibility markets, improves grid coordination, and uses AI to monitor the safety of vulnerable individuals. Through digital tools, the project has improved grid coordination, reduced energy costs via dynamic pricing, and encouraged community participation in local energy markets.



Focusing on a residential district in **Fjärås, the Kungsbacka** demonstrator integrates solar PV, battery storage, and district heating, all of which are managed via smart tools and real-time monitoring. The site also tests behavioural nudging to encourage more active energy usage, thereby supporting Sweden's broader climate goals. The project has demonstrated significant reductions in CO₂ emissions and costs through the integration of renewable energy sources.

The Geneva site focuses on electric, on-demand transport. AI optimises routing, charging, and predictive maintenance, resulting in reduced energy usage, longer battery life spans, and more reliable services. This solution provides a blueprint for future-ready autonomous public mobility systems. The project has demonstrated that AI-driven route and charging optimisation can reduce operational costs and deliver environmental benefits by lowering emissions and reducing battery waste.

Visit our website to access the flyers:

<https://enflate.eu/outcomes#material>





5th Plenary Meeting in Lucerne

We are pleased to announce that the ENFLATE consortium will hold its fifth plenary meeting on 21 and 22 May 2025 at the Migros Club School in Lucerne, Switzerland. At this two-day event, all project partners will come together to review the progress of the individual work packages, discuss technical developments and provide updates on the pilot sites.

ENFLATE participates in Energy Nexus Cluster @ ENLIT Europe 2025 in Bilbao

The Energy Nexus cluster, of which ENFLATE is a member, is pleased to announce that it will be participating in ENLIT Europe 2025 in Bilbao. At the invitation of Privanova, the cluster will have its own stand at the event. Additionally, innovative projects such as BeFlexible, ELEXIA and RESONANCE have joined the cluster to showcase their energy flexibility system developments.



The cluster also plans to organise a panel session during the event, offering an opportunity for in-depth discussions through panel debates and project presentations.

NOVA (Greece) - Coordinator

UBITECH ENERGY (Belgium)

ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS (Greece)

ARTELYS (France)

FUNDACION CARTIF (Spain)

ETHNIKO KAI KAPODISTRIAKO PANEPISTIMIO ATHINON (Greece)

EUROPAISCHES INSTITUT FÜR INNOVATION - TECHNOLOGIE EV (Germany)

REGULATORY AUTHORITY FOR ENERGY (RYTHMISTIKI ARHI ENERGIAS) (Greece)

DIACHEIRISTIS ELLINIKOU DIKTYOU DIANOMIS ELEKTRIKIS ENERGEIAS AE (Greece)

INDEPENDENT POWER TRANSMISSION OPERATOR SA (Greece)

UNIVERSITY OF PIRAEUS RESEARCH CENTER (Greece)

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EPEX SPOT (France)

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Contact us:

info@enflateproject.com