

**Interreg  
Danube Region**



Co-funded by  
the European Union



# PRESS RELEASE

## ESINERGY

Empowerment of the stakeholders in the implementation of the Directive on the promotion of the use of energy from renewable sources in term of energy storages and energy networks stability

## PRESS RELEASE

# Empowering Renewable Energy Transition with the ESINERGY Project

ESINERGY project aims to solve one of the key issues in modern energy technology, this is to manage the imbalance between the generated power and the load into the electrical network, which is not adequate for the forthcoming needs such as rising consumption, energy demand etc.

Funded by the Interreg Danube Transnational Programme, ESINERGY focuses on reducing peak loads in electrical grids, allowing energy producers to utilize energy more efficiently for their own needs—such as powering heat pumps, energy storage systems, charging stations, and energy communities. These innovative approaches empower stakeholders to balance energy production and consumption while supporting self-supply.

The project also aims to influence policy planning by developing a transnational strategy for peak load management. This strategy will enable the replication of effective energy solutions in other regions, further advancing Europe's energy transition.

To achieve its goals, ESINERGY partners are implementing the following pilot activities:

- 1. Smart Solar Energy Management – Martjanci, Slovenia. Slovenian partner works on establishment** of Vehicle-to-Building and Vehicle-to-Grid systems which will enable charging of electric vehicles and returning of electric energy from vehicles to grid.
- 2. Battery Storage System – Čakovec, Croatia. Croatian partner is installing** a 20 kWh battery system with supporting infrastructure to accumulate energy from the solar panels and to make it available even when there is no sun.
- 3. Monitoring Equipment for Campus Innovation – Weiz, Austria. Austrian partner implements** a 100 kWh battery system on campus and works on creation of an energy community with 15 members to reduce grid dependency and peak loads.
- 4. Monitoring and Control of Decentralized Plants – Bad Hidelang, Germany. German partner integrates** the charging infrastructure and forecasting systems for 314-member energy cooperative which will collect environmental data and enable flexible operation of production capacities.
- 5. Smart Battery Management – Beloslav, Bulgaria. In a glass processing factory, Bulgarian partner implements** optimization of electricity production and consumption by smart energy storage system to manage production and consumption based on price signals.

**6. Photovoltaic Power Plant and Storage System – Goražde, Bosnia and Herzegovina.** Bosnian partner installs a 10 kW rooftop solar power plant with a 10 kWh battery storage system.

**7. Heat Pumps for Local Hospital – Kotun, Ukraine.** Ukrain partner installs a 20 kW air-to-water heat pump powered by a rooftop solar mini power plant on a local hospital's therapeutic-rehabilitation department in order to provide energy independency and provide continuous energy supply during the shortages.

**8. Establishment of a pilot energy community Lenti – Hungary** – In the Zala County, Municipality of Lenti, Hungarian partner will introduce the concept and create a functioning energy community.

## Join the ESINERGY

The ESINERGY project is not just about technological innovation—it is about building a sustainable future by fostering cross-border cooperation and policy development. Stay updated on our progress and learn more about our innovative solutions by following us on:

Project website: <https://interreg-danube.eu/projects/esinergy>

YouTube: <https://www.youtube.com/@InterregESINERGY>

LinkedIn: <https://www.linkedin.com/company/interreg-esinergy>

Together, we can shape the future of renewable energy and energy network stability across Europe.

### Media Contact:

[Viera Joklova]

[Partner's representative]

[Faculty of Architecture and Design, STU in Bratislava, Slovakia]

[viera.joklova@stuba.sk, +421 950593798]