



INTERPED

Interoperable cloud-based
solution for cross-vector
planning and management
of Positive Energy Districts

Newsletter #1

DECEMBER 2024

Welcome to the first Newsletter of InterPED!

Launched in **January 2024**, InterPED is an **EU-funded project** dedicated to **advancing Positive Energy Districts (PEDs) across Europe**. By enabling sector coupling, cross-vector integration, demand flexibility, and consumer engagement, InterPED leverages renewable energy sources (RES), storage, and excess/waste heat (E/WH) to develop a scalable, cloud-based platform that supports energy-efficient PED operations and enhances grid resilience.



[📖 Check InterPED's concept](#)

The project brings together a consortium of **14 partners from 7 European countries**, combining expertise in ICT, energy management, and community engagement to achieve ambitious **energy transition** goals. With pilot sites across Europe, InterPED will demonstrate optimized PED operations, cooperative demand response strategies, and sustainable energy solutions for communities and grid stakeholders alike.



[InterPED's Consortium](#)

InterPED Project Objectives

InterPED is focused on creating **Positive Energy Districts (PEDs)** that integrate renewable energy, improve grid stability, and reduce carbon emissions.

Our main objectives are:

- Build a **cloud-based platform** to manage PEDs, supporting energy systems integration, high renewable energy use (over 50%), and community involvement.
- Test the InterPED platform in **four pilot sites across Europe** to show improved grid reliability, optimized energy use, and at least 30% flexibility in demand.
- Develop **plans to replicate** InterPED in four more districts, demonstrating benefits for the energy grid, local economy, and environment.

InterPED Pilots

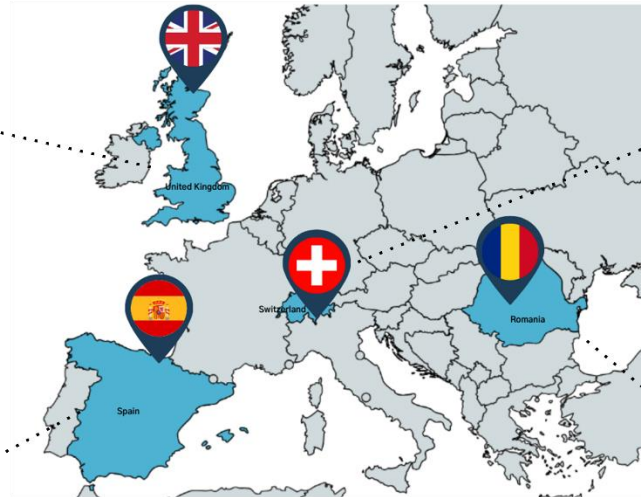
InterPED is implementing its solutions in four diverse pilot sites across Europe, each representing unique challenges and opportunities for creating Positive Energy Districts (PEDs).



Pilot Name: Ecovillage Findhorn
Pilot Type: Mixed - residential and commercial buildings



Pilot Name: Lugaritz-Matía Community
Pilot Type: Mixed - tertiary and residential buildings



Pilot Name: Arena Innovation Community
Pilot Type: Mixed - tertiary and residential buildings



Pilot Name: Alba Iulia College District
Pilot Type: Tertiary buildings, with surrounding residential area

Pilot 1: Lugaritz-Matía Community (San Sebastián, Basque Country)



Focused on healthcare facilities, including the Birmingham Hospital and two nursing homes, this pilot integrates geothermal, biomass, and gas energy sources. The goal is to improve energy efficiency and transition fully to renewable sources through advanced energy management.

[About Lugaritz-Matía Community](#)

Pilot 2: Ecovillage Findhorn (Scotland)



In the historic Findhorn Ecovillage, InterPED aims to increase renewable energy self-consumption to over 70% through optimized energy dispatching and local trading. Key systems include wind, solar, and enhanced district heating.

[!\[\]\(666e09182d4cd268646ea700ea60dcdf_img.jpg\) About Ecovillage Findhorn](#)

Pilot 3: Arena Innovation Community (Capriasca Village, Switzerland)



This pilot combines residential and public services, including a pool and sports facilities, with a focus on biomass and heat recovery. InterPED will optimize energy self-consumption, introduce e-mobility integration, and manage peak-shaving to enhance sustainability.

[About Arena Innovation Community](#)

Pilot 4: Alba Iulia College District (Romania)

Centered around a technical college, this pilot focuses on solar energy integration and strategic renovations. InterPED will enhance self-consumption, energy flexibility, and stimulate a local energy marketplace to reduce reliance on external sources.



[About Alba Iulia College District](#)

First Semester Highlights

InterPED Project Kicks Off in Spain

January 23—24, 2024

The InterPED project officially launched with a successful Kick-Off Meeting in Spain, hosted by our coordinator R2M. Partners from across Europe gathered to establish a collaborative foundation for advancing Positive Energy Districts (PEDs). Over two days, the team aligned on goals, introduced the project's pilot sites, and set the roadmap for sustainable urban energy solutions.



[!\[\]\(d66ff64371a51729ac8c1cdaa685ba6f_img.jpg\) Project kick-off](#)

Participation at the Basque Sustainability Fair, Berdeago

March 22—24, 2024

At the Basque Sustainability Fair, Berdeago, InterPED partner GIROA VEOLIA (VEO) showcased its commitment to energy efficiency and sustainable urban solutions. In the Energy section, VEO highlighted InterPED's mission to develop Positive Energy Districts (PEDs) that reduce carbon footprints and improve urban living. Engaging in “Green Circle” sessions, VEO joined innovators and policymakers to exchange ideas on best practices and trends in sustainability, further fueling InterPED's dedication to advancing energy-efficient cities.



[Basque Sustainability Fair](#)

BRIDGE General Assembly 2024

April 9—10, 2024

The BRIDGE General Assembly brought together energy innovators from across Europe at the DoubleTree by Hilton in Brussels. Supported by the European Commission, this two-day event highlighted key advancements in the energy sector. InterPED presented its work on Positive Energy Districts (PEDs) through cloud-based platforms and cross-vector optimization during the ‘Networking Coffee & New BRIDGE Projects Showcasing’ segment. Engaging in sessions on consumer engagement and regulatory frameworks, InterPED contributed insights on integrating communities into energy management. The event concluded with future-oriented goals, reinforcing InterPED’s role in supporting Europe’s sustainable energy transition.



[BRIDGE General Assembly](#)

DPA Forum 2024 in Bilbao

June 5—6, 2024

At the DPA Forum 2024 in Bilbao, Giroa Veolia presented the InterPED project as a leading example of innovative energy management in architecture and construction. Held on June 5-6, this event gathered over 25 companies to discuss future-oriented solutions for building energy efficiency. Giroa Veolia's presentation highlighted how InterPED integrates diverse energy sources, like district heating, to create Positive Energy Districts (PEDs) that enhance efficiency and sustainability. The forum provided valuable networking opportunities, facilitating exchanges on emerging technologies and collaborative projects that are shaping sustainable urban development.



[DPA Forum](#)

Partners:



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