

ENERGY4ALL

Communities for positive energy districts

Energy can be conceived as a public resource that should be accessible to all. The human dimension therefore plays an important role in the design and implementation of Positive Energy Districts (PEDs) and Energy Communities (ECs). In the ENERGY4ALL project, energy communities include not only a set of households producing and consuming energy, but also common users of a public resource, such as the industrial and civic sectors. By exploring different ECs elements through five pilot studies in Stavanger (Norway), Styria (Austria), Budapest (Hungary) and Rome (Italy), the project strives to provide insights into how participatory energy governance practices affect the success of PEDs/ECs.



Aims / Objectives

We seek to maximise performance and shared benefits by emphasising the community dimension in PEDs and ECs, through:

1. Analysis of user behaviour and how this influences the performance of ECs/PEDs;
2. Development of coherent future scenarios to reach carbon neutrality;
3. Establishment of successful participatory governance models for replication in urban contexts in EU member states and associated countries;
4. Exchanging within and across national contexts using local networks (e.g., city networks);
5. Stimulating international collaboration and policy advocacy

Approaches / Methods

1. Making use of a needs-driven approach, engaging local stakeholders in collaborative planning.
2. Examining energy sector transitions using the multi-level perspective and experiments with public-community collaborations.
3. Employing energy systems modelling, analysing current situations and future scenarios.
4. Leveraging behaviour change models to encourage actions that contribute to sustainability.
5. Raising awareness for a brighter future through innovative communication.

Expected results / Impacts

Energy4All identifies barriers to PEDs and ECs adoption to address shared challenges and develop a common ground for action. Engaging stakeholders, including industry and local governments, it shapes governance and business models in energy production, aiding emission reduction targets. Tracking community engagement and policy changes, it disseminates findings to amplify impact on civil society and policy environments, supporting cities in transitioning towards climate neutrality.

Project info

Energy4All – Energy as a common pool resource

Duration: Starting 01/2024 with expected ending 12/2026

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Budget: 1.753.265,00 EUR

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Positive Energy Districts (PED)

The Positive Energy Districts Transition Pathway (PED TP) aims to develop innovative solutions for planning, large-scale implementation, and replication of PEDs across Europe. PEDs are energy-efficient and energy-flexible urban areas that generate net zero emissions while managing renewable energy. The mission is to initialise 100 PEDs in Europe by 2025 and contribute to the Mission on Climate-neutral and Smart Cities with an innovation portfolio of PED solutions until 2030.

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