



# Turning cities Planning actions for Positive Energy Districts into success.

Supporting the development of  
Positive Energy Districts in Europe

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Co-funded by  
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Cities are responsible for a substantial share of human climate and environmental impact and contribute to **around 70%** of the European Union's (EU) CO2 emissions and primary energy consumption. At the same time, they are recognised as key drivers for sustainability transformations.

Positive Energy Districts (PEDs) are considered a key enabler for emission reductions in the building and mobility sectors. Indeed, PEDs could help to reduce the carbon emissions of urban districts by up to 85%, depending on the region under consideration. The EU aims to develop at least 100 PEDs by 2025.



TIPS4PED will design, develop, and test in a relevant environment the effectiveness and the techno-economic viability of a Digital Twin based Platform, to support municipalities in the implementation of Positive Energy Districts.

## OUR OBJECTIVES

Support municipalities in:



decision-making by delivering a series of evidence-based results,



increasing the environmental sustainability of cities,



reducing operational costs.

Building an Integrated Assessment Platform to support municipalities with software tools that address the **technical, social, financial, regulatory** and **administrative** perspectives of PED implementation.



**TIPS4PED** will seek scalable and easily reproducible technologies and digital optimization as a key solution for achieving 2030 EU goals, while taking into consideration various market circumstances, and environmental, safety, and regulatory aspects.

We will do this by:

- adopting a people-centric approach to engage, train and empower citizens and stakeholders,
- designing and manage the PED effectively and foster its implementation through city planning actions

**TIPS4PED solutions will be tested in one LightHouse city (Turin), where the Integrated Assessment Platform will be connected to a monitoring system for the real-time management of the assets, and replication studies will be conducted in three Follower Cities (Cork, Kozani and Budapest).**



2 test areas:

**Test Area#1** – Energy Centre, 5,000 m<sup>2</sup> of office space, approx. 200 occupants, large event venue.

**Test Area#2** – City of Turin's office area, 5,000 m<sup>2</sup>, 2 office buildings, >150 employees, 1 parking area.



# FACTS & FIGURES

## 17 Partners



Politecnico  
di Torino



Cóiliste na hOllscoile Corcaigh  
University College Cork, Ireland

## 4 Countries



Italy



Ireland



Greece



Hungary

## Project duration

42 months  
(January 2024-May 2027)

## Project budget

6 484 685 EUR

### Socials



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