

## ATELIER OBJECTIVES

### Main objective

The main objective of ATELIER is to realise Positive Energy Districts (PEDs) in Amsterdam and Bilbao to reduce CO<sub>2</sub> emissions, demonstrating integrated smart urban solutions that support the deployment of PEDs and their replication in the six Fellow Cities Bratislava, Budapest, Copenhagen, Krakow, Matosinhos and Riga.

A **Positive Energy District** is seen as an urban district with annual net zero energy import and net zero CO<sub>2</sub> emissions, working towards an annual local surplus production of renewable energy.

### This objective is based on three principles:

#### 1. Reduction of CO<sub>2</sub> emissions

This is realised through the deployment of local smart urban solutions and the development and implementation of City Vision 2050 plans, addressing a combination of technical, financial, legal and social measures that support system integration, local production of renewable energy and high energy efficiency, stimulating local public and private investments.

#### 2. Sustainable, secure and affordable energy systems for citizens

The PEDs aim to support the realisation of this objective and improve the quality of the urban surroundings of citizens living in and using the districts (also through the organisation and institutionalisation of PED Innovation Ateliers), but also through smart systems contributing to the security and affordability of the system as a whole.

#### 3. Collaboration and knowledge sharing

To realise, scale up and replicate PEDs through smart urban solutions, ATELIER creates unique opportunities for collaboration in a network of public authorities, knowledge institutes, businesses, and citizens in the district and the city, and additionally shares knowledge and experiences with further Lighthouse Cities, Fellow Cities and other ambitious cities.

## ATELIER PARTNERS

In ATELIER, 30 partners from 11 countries are working together to create and replicate Positive Energy Districts within eight European cities.



AmsTErdam BiLbao cItizen drivEn smaRt cities

ATELIER is an EU-funded Smart City Project aiming to create and replicate Positive Energy Districts (PEDs) within two Lighthouse Cities and six Fellow Cities

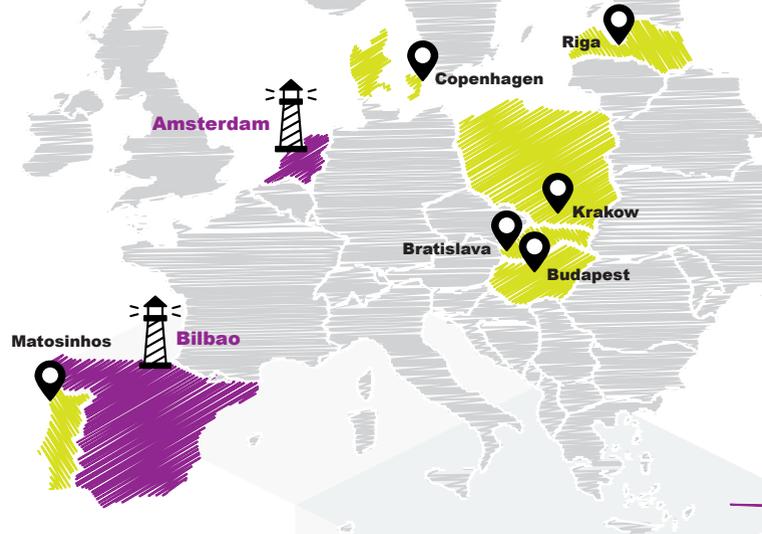


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## ATELIER KEY FACTS

**Duration:** 60 months (Nov. 2019 – Oct. 2024)

**EU-funding:** ≈ 20 Mio. €



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### Further Information

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## ATELIER LIGHTHOUSE CITIES

### AMSTERDAM (THE NETHERLANDS)

Amsterdam is transforming a former industrial neighbourhood into a low-carbon, smart PED with mixed uses to explore opportunities for local energy communities: new energy efficient buildings, a high share of renewable energy sources generating solutions and smart technology will be deployed. Citizens are involved in the design of the environment (e.g. the car sharing facilities) and evaluations of the various demonstrators.



Lighthouse City Amsterdam. Credits@Projectvisuals

### BILBAO (SPAIN)

The demo district of Zorrotzaurre is an industrial brownfield that will become a city lab where the city of the future will be designed. On this island, new policies are being developed to foster a transition towards a zero-emission city model, including initiatives in transportation, heating and cooling and power generation, distribution and management. The aim is to develop 5,500 new homes, 150,000 m<sup>2</sup> of office space, 154,000 m<sup>2</sup> of citizen spaces and 93,500 m<sup>2</sup> of social and cultural facilities. The local PED will be developed in three locations as part of Zorrotzaurre island: North, Centre and South, which will be connected via a geo-exchange loop.



Lighthouse City Bilbao. Credits@Ayuntamiento de Bilbao

## ATELIER FELLOW CITIES

### BRATISLAVA (SLOVAKIA)

Bratislava aims to focus on non-technical actions such as new policies and regulations, social awareness and capacity building, and build leverage for a broader debate on energy positivity legislation in Slovakia.

### BUDAPEST (HUNGARY)

Budapest aims to prepare a replication plan for target areas, develop a vision for rationalising urban energy use and to engage citizens into urban energy transformation to create healthier urban living.

### COPENHAGEN (DENMARK)

Copenhagen aims to be carbon neutral by 2025 and fossil free by 2050. Within ATELIER, the city will prepare a City Vision 2050 to support the green transition and to establish a PED Innovation Atelier to include stakeholders in creating, implementing and replicating the smart solutions of tomorrow.

### KRAKOW (POLAND)

Krakow plans to acquire knowledge and skills in the development of PEDs, increase citizen and stakeholder engagement, organise the local PED Innovation Atelier as a meeting and inspiration place and develop a City Vision 2050 as a road map to climate neutrality.

### MATOSINHOS (PORTUGAL)

Matosinhos aims to acquire knowledge, experience and skills in the development of replication and upscale plans for PEDs, develop a City Vision 2050 as a road map to energy transition and carbon neutrality and increase the awareness and engagement of citizen and key stakeholders.

### RIGA (LATVIA)

Riga aims to develop a City Vision 2050 to guide the city's energy transition challenges, acquire new knowledge and skills for the PED deployment and raise awareness amongst the local population on sustainability issues and smart city concepts.