

## Methodology for Positive Energy District promotion in the Basque Country

### PARTNERS



**Ente Vasco de la Energía**

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### PROJECT

**EU Programme:**

Horizon 2020 Innovation Action

**Coordination:**

City of Amsterdam

**Partners:**

29 partners, 10 countries

**European grant:**

19.6 M€

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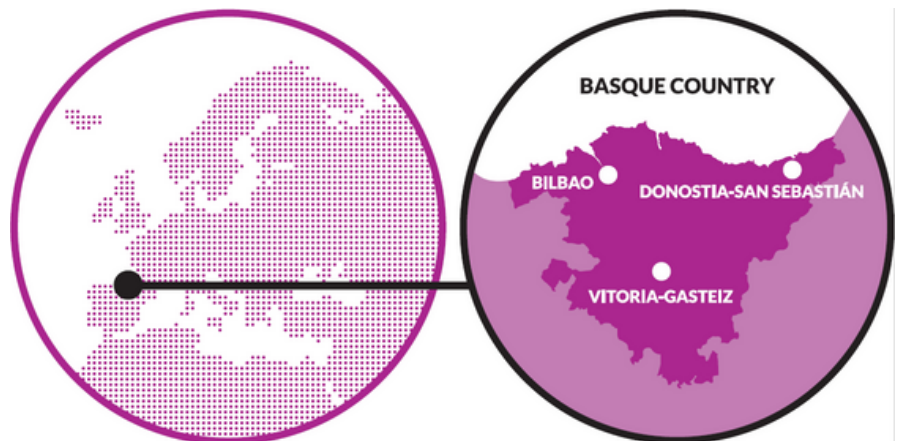
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### Result in a nutshell

The Positive Energy Districts (PED) concept is a crucial tool for local administrations when drafting heating and cooling plans, with the ultimate goal of achieving decarbonization by 2050 as part of the energy transition process.

This methodology for promoting PEDs in municipalities in the Basque Country offers a comprehensive approach that integrates various stakeholders, technologies, and policies. **Local governments, urban planners, and community leaders** can greatly benefit from this guide, as it provides detailed steps on engaging with the community, implementing sustainable technologies, and aligning with existing policies to foster energy-efficient districts.

### Demonstration site



**Basque Country region**



**Bilbao, Zorrotzaurre Island**

# The steps of the methodology

## Baseline assesment:

- Energy Audit: Conduct a detailed assessment of energy consumption, sources, and infrastructure within potential districts.
- Resource Mapping: Identify renewable energy potential (solar, wind, hydro, etc.) and energy efficiency opportunities.
- Stakeholder Analysis: Understand key actors, their roles, and interests in potential PEDs.

## Vision and Goal Setting:

- Define PED Objectives: Establish clear goals for carbon neutrality, renewable energy adoption, and energy efficiency improvements.
- Engage Stakeholders: Collaborate with municipalities, developers, utilities, and residents to align on the vision.

## District Selection and Design:

- Criteria Development: Develop criteria (e.g., size, existing infrastructure, community interest) for selecting PED sites.
- Planning: Integrate land-use planning, building design, and transportation to optimize energy flows.

## Technology and Infrastructure Deployment:

- Renewable Energy Integration: Prioritize on-site generation (solar, wind) and explore district-level renewable projects.
- Smart Grid Implementation: Deploy smart meters, demand response systems, and energy storage to optimize energy use.
- Building Retrofits: Encourage energy-efficient building design and retrofit programs.

## Community Engagement and Education:

- Awareness Campaigns: Educate residents and businesses about PED benefits and encourage participation.
- Community Co-creation: Involve residents in decision-making processes and project design to increase buy-in.

## Further development

### Potential for further development:

Some aspects of the methodology could be further tested or improved in the future, such as advanced renewable energy technologies, innovative stakeholder engagement strategies, and the scalability of PED implementations.

### Potential areas of applicability:

Advocate for the PED concept to mainstream this approach towards the sustainable urban development of other municipalities throughout the Basque Country.