



# POSEIDON

POSitive Energy Initiatives in Districts fOr Neutral Mediterranean cities

## Abstract

POSEIDON has the ambition to develop a methodology that fosters the transition from existing districts into Positive Energy Districts (PEDs), by combining solutions that address energy, environmental and social aspects of district sustainability. POSEIDON focuses on the development of a methodology for **Mediterranean cities** which, in addition to presenting similar climatic characteristics, share common social customs and lifestyles. Concretely, **POSEIDON methodology** will enable to execute a process in **seven steps based on three guides and tools**. First, a **Multi-Criteria Decision Analysis** will be conducted to identify and select the most suitable areas of the city for the implementation of PEDs. Then, the **POSEIDON tool**, a software tool to support, model and simulate the design of the PED, will be developed. Meanwhile, the **POSEIDON Lab**, that involves the inhabitants of the districts and converts them into actors of change able to support PED implementation, will be implemented. As a result, the methodology will generate a **transition scenario from the initial state of the district towards a PED**, that fairly and consciously **includes citizens**. By doing so, POSEIDON aims to demonstrate the opportunity that PEDs represent for energy transition and climate-neutrality and promote their integration in planning strategies of Mediterranean cities.

## PED transition gaps



Lack of energy planning culture & qualified staff resources



No one-fits-all strategy for design & implementation



Need for guidelines & practical tools

## POSEIDON Objectives



Design and develop instruments for Mediterranean cities that foster the transition of existing districts into PEDs, by combining solutions that address energy, environmental and social aspects of district sustainability, and tackle both buildings and public spaces issues.



Why Mediterranean cities?  
-> Vulnerability to climate change  
-> Complex planning strategies  
-> Socio-cultural aspects

## 3 Tools



Multi-Criteria Decision Analysis



to identify suitable areas



Software-tool



to select solutions and scenarios of transition



Social programme



to involve and empower citizens

## Consortium

6 Demosites  
2 Universities  
1 Startup  
1 Association

