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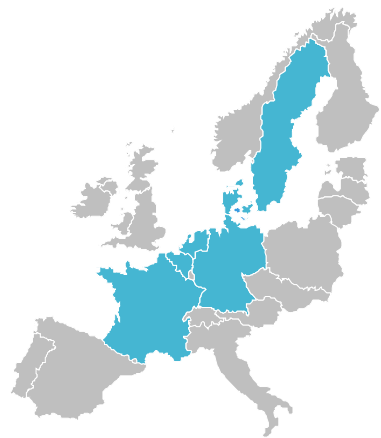
Cities for Open and Participative Planning for Electricity grid Resilience

Creating a future-proof energy system

Clean, flexible, decentralised, and digital energy systems are central to meeting the EU's goal of climate neutrality by 2050. Renewables deployment is rapidly progressing to meet the rising electricity demand of **6,800 TWh by 2050**.

Local organisational capacity is needed for local authorities to fulfil their emerging role as **local energy grid coordinators**, gradually taking over the role from their local DSO, increase local renewables uptake, improve **grid flexibility**, and **reduce costs** for developers and communities.

European networks (DSOs & Cities)



Belgium



The Netherlands



Denmark



Sweden



Germany



Goals & Benefits



Build **local authority capacity** within NSR cities to lead future energy systems through DSO partnerships and the co-creation of an open-source digital toolkit.



Deliver **smart grid pilots** demonstrating improved **grid flexibility** in preparation for the new **local energy leadership** role of each local authority.



Develop long-term **local energy plans** (LEPs) in collaboration with transnational cities, local DSOs, the private sector, and other relevant energy actors

City Ambitions



City of Ghent

Demonstrate solutions for **full-electric residential** districts



City of Bremen

Demonstrate solutions for city-wide **grid-friendly EV car-sharing charging infrastructure**



Esbjerg Municipality

Regional **analysis** and modelling of energy flows to **ensure grid stability** and identify connected business models for local actors



City of Antwerp

Pilot **net load floor** solutions for the implementation of a city-wide EV mobility strategy



Dordrecht Municipality

Roll-out freight EV **fast charging** by coupling it with **local photovoltaic systems**



Akademiska Hus, Gothenburg Municipality

Flexibility solutions for decentralised campus energy systems

Lead Partner

City of Ghent

Start date

April 2023

Budget

€ 5 million

Duration

4 years

Interreg
North Sea Region
European Regional Development Fund

