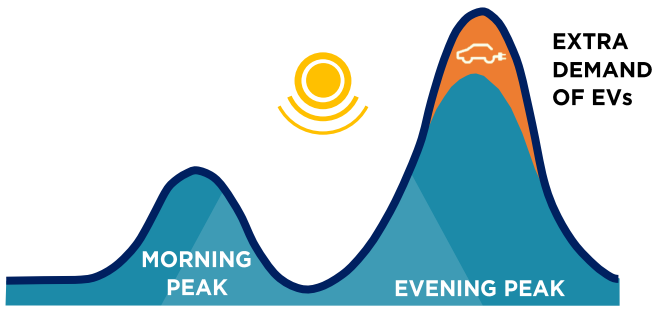
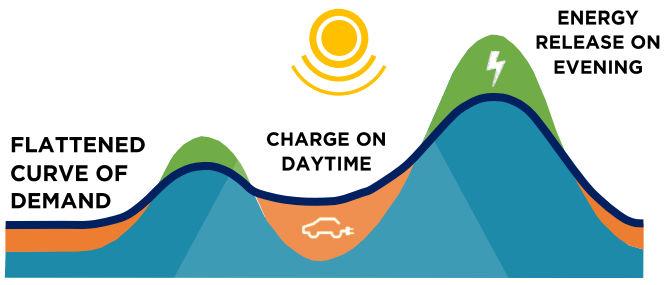
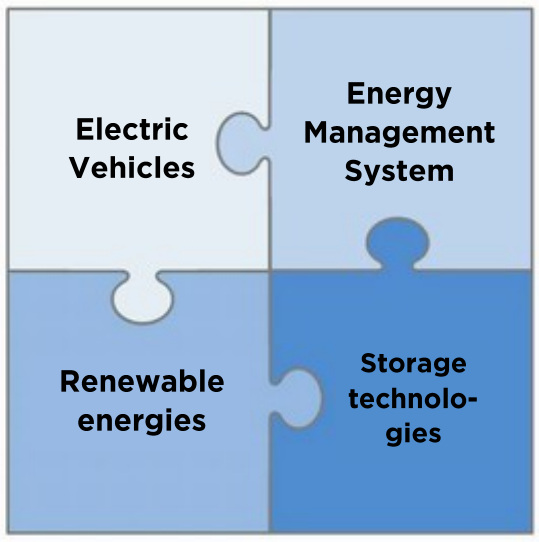
CleanMobilEnergy

A project proposal of ARNHEM GEMEENTE for INTERREG NWE

CleanMobilEnergy determines, implements and improves energy management systems integrating electric mobility and storage; increasing renewable energy efficiency to reduce greenhouse gas emissions.







THE CHALLENGE

North West Europe's cities are frontrunners in the adoption of innovative technologies. Mayor part of the EU's renewable energy is installed here and electric vehicle fleets grow at fast pace. Both contribute significant to a zero carbon emission society, but standalone the total renewable energy and electric vehicles potential is limited.
In cities solar production peaks during the day, when energy demand is low. In the evening the increase of Electric Vehicles (EVs) puts additional pressure on the grid.

Their intelligent integration is a high priority for clean city development. Combined energy independence and zero emission mobility can be doubled. This is a complex task to realise, given the amount of stakeholders, devices to interconnect, information to share and decisions to take. Therefor energy management systems are needed, taking the best from renewable energies, EVs and storage options.

THE INTERNATIONAL COOPERATION

Interreg NWE Programme provides the perfect framework to establish several pilot projects along countries, compare the results and develop a series of good practices.

CleanMobilEnergy management systems have a common basis, but diverse functionalities. Some cities focus on EVs, other on stationary batteries. Some projects are localized, at small scale, meanwhile others are completely integrated in innovative neighbourhood developments.

The transnational developments and complementarity of different applications in diverse scenarios and extract lessons from them is the most fundamental advantage of international cooperation.

THE PARTNERS WE ARE INTERESTED IN

The CleanMobilEnergy partnership is quite complete, but open for opportunities to broaden the territorial impact and the technical and academical expertise in the field of energy management systems. Cities need to be committed to invest in renewable energies and an electric mobility fleet.

So far a good amount of partners in UK, Netherlands, Luxembourg and Germany have expressed their commitment for the CleanMobilEnergy project.

Among our experts hub we are proud to count on with AVERE and POLIS to disseminate our insights, TNO and LIST for technical expertise, experience with EMS implementation and legal support, and the cities of Arnhem, Nijmegen, London, Schwäbisch Gmünd (Stuttgart) and Seraing for project implementation.

THE OBJECTIVE

- CleanMobilEnergy seeks to demonstrate the natural fit between local renewable energies, smart energy storage, energy management and electric mobility.
- CleanMobilEnergy creates the circumstance in which Energy Management Systems, Renewable Energy, Electric Vehicles and smart Storage are optimised.
- This results in various long term Operational Pilots operating and demonstrating in North West Europe the need and opportunities for Zero Carbon city and mobility developments.
- This includes city development plans, business scenarios, integrated energy planning, social acceptance studies and change management guidelines.

Europäisches Institut für Innovation
Schwäbisch Gmünd Älteste Stauferstadt
e-mobil BW State Agency for Electric Mobility and Fuel Cell Technology Baden-Wuerttemberg GmbH
Transport for London
GREATER LONDON AUTHORITY
AVERE The European Association for Battery, Hybrid and Fuel Cell Electric Vehicles
POLIS EUROPEAN CITIES AND REGIONS NETWORKING FOR INNOVATIVE TRANSPORT SOLUTIONS
GEMEENTE Arnhem
Seraing Cité de demain
TNO
LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY LIST
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FOR FURTHER ENQUIRIES

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