

WiseGRID demonstration site

Smarter systems. Empowered citizens



The European project WiseGRID wants to contribute to Europe's transition to a low-carbon economy by increasing the use of renewables through the promotion and demonstration of innovative and smart technologies. This will be demonstrated and evaluated under real life conditions in Belgium, Italy, Spain and Greece.

The demonstration site is in the Sint-Amandsberg district. The area counts 1 456 households. Ecopower will drive the project, together with EnerGent, the local energy cooperative and partners Energie-ID and Partago.

Ghent, a pilot site for WiseGRID!

Infrastructure in Ghent

- 1128 houses/apartments
- 1371 families
- 3171 inhabitants
- Dense populated district
- Electricity consumption : 5,7 GWh of which 2,6 is residential
- 3 medium voltage cabins feed the grid
- Gas consumption : 20,6 GWh



- ↑ Renewable Energy share
- ↓ Electricity consumption
- ↑ Efficiency of the grid
- ↓ The electricity bill

What exactly will be tested?



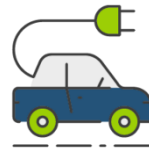
Wisecoop: Application for energy retailers, aggregators & local communities and to consumers and prosumers achieve better energy deals.



Wisecorp: Corporate application for businesses, industries, ESCO's and public facilities consumers and prosumers to become active, smarter energy players.



Wisehome: Application for individual domestic consumers and prosumers to become active energy players.



Electric Vehicle Platform: This tool will be used by vehicle-sharing companies in order to optimize charging and discharging of the Electrical vehicles and reduce energy billing.



Energy Storage: Through this tool consumers/prosumers can easily offer their unused storage capacity to the market.



Renewable Energy Service: This tool will enable the provision of energy to the consumers from renewable energy sources.

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Which cooperatives are involved?



Ecopower was founded in 1992 as a cooperative under Belgian law. The organisation has three main goals:

- Invest in **renewable energy**;
- **Supply 100% green electricity** to our cooperative members;
- Promote a **rational use of energy** (and renewable energy and the cooperative business model in general).

Ecopower is involved in investments in renewable energy, such a photovoltaic cells and cogeneration. This is locally produced energy. Ecopower is supplier of green electricity in Flanders and has close contact with its members/clients. On top of that Ecopower is also an aggregator for green electricity.

As both a supplier and aggregator, with knowledge of local production of renewable energy, Ecopower will participate in the demonstration site.

EnergieID

EnergieID is a cooperative social-profit IT-company founded in 2014.

Mission = development of IT-tools for rational energy use and sustainable living

EnergieID.be = online energy management platform to follow, analyse and compare energy and water consumption of building sites.



Partago

Partago is an **electric car sharing** co-operation. They share 100% electric cars with their members. Partago develops a mobile Platform to allow sharing via the smartphone. The organisation is co-developing the platform with other interested co-ops. Partago is based in Belgium, Gent.