

Partners involved









Location



Objectives

In the Belgium city of Oud-Heverlee, the InterConnect project will deploy new solutions in four buildings of the Local Energy Community. We want to:

- → Demonstrate the effective multi-asset flexibility in a community of tertiary buildings with the same owner.
- → Increase comfort, minimize energy consumption, aggregate self-consumption, peak shaving, demand response and demand charge management for minimizing the electricity bill in conjunction with maximizing the flexibility provision to the grid (DSO and energy supplier), providing new revenue streams for the community owner.
- → Deploy interoperability between three platforms: HVAC control, battery and EV control and PV/building and forecasting.
- → Deliver an interface for the user's setting and preferences as well monitoring of energy consumption.

Technologies & Infrastructures

The local energy community consists in four buildings - the city hall, OCMW office, the policy station and a day care centre -, all of them located next to each other. The following technologies will be installed:

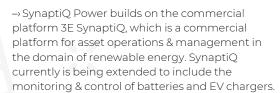
Hardware

Split unit, battery, EV charger, PV panels.



Software





→ DeltaQ based on a model-predictive control framework automatically optimizes the BEMS control settings on hourly basis combining monitoring data, user preferences, weather forecasts and energy tariffs.

Communication, monitoring and control devices





