



PILOTING THE SYSTEM

To make sure the COLLECTiEF system works, the system is tested in **four pilot sites** across Europe.

The pilot cases are chosen to represent different types of buildings, users, markets, and climate zones over Europe. This will secure the replicability and scalability of the solution.

OUR PARTNERS



GET IN TOUCH AND FOLLOW US

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COLLECTiEF

COLLECTIVE INTELLIGENCE FOR ENERGY FLEXIBILITY

AN EU PROJECT THAT DEVELOPS
SOFTWARE AND HARDWARE PACKAGES
TO SMART UP EXISTING BUILDING STOCKS IN EUROPE

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WHY COLLECTiEF?

The energy demand of buildings is one of the major contributors to CO2 emissions.

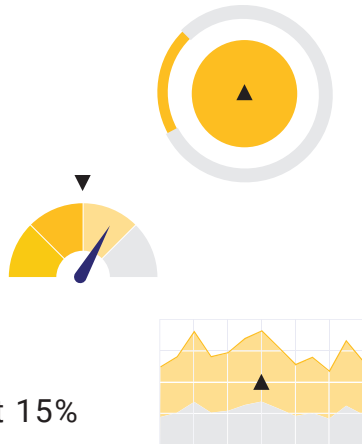
An improved user-centric energy performance of buildings plays a big role to enhance indoor comfort and climate change mitigation.

This requires smarting up buildings and energy management methods at a large scale. Doing so will contribute not only to sustainability, but also to climate change adaptation of our societies.

COLLECTiEF enhances, implements, tests, and evaluates an interoperable and scalable energy management system based on Collective Intelligence (CI) to be integrated into existing buildings and urban energy systems.

Our energy management solutions will:

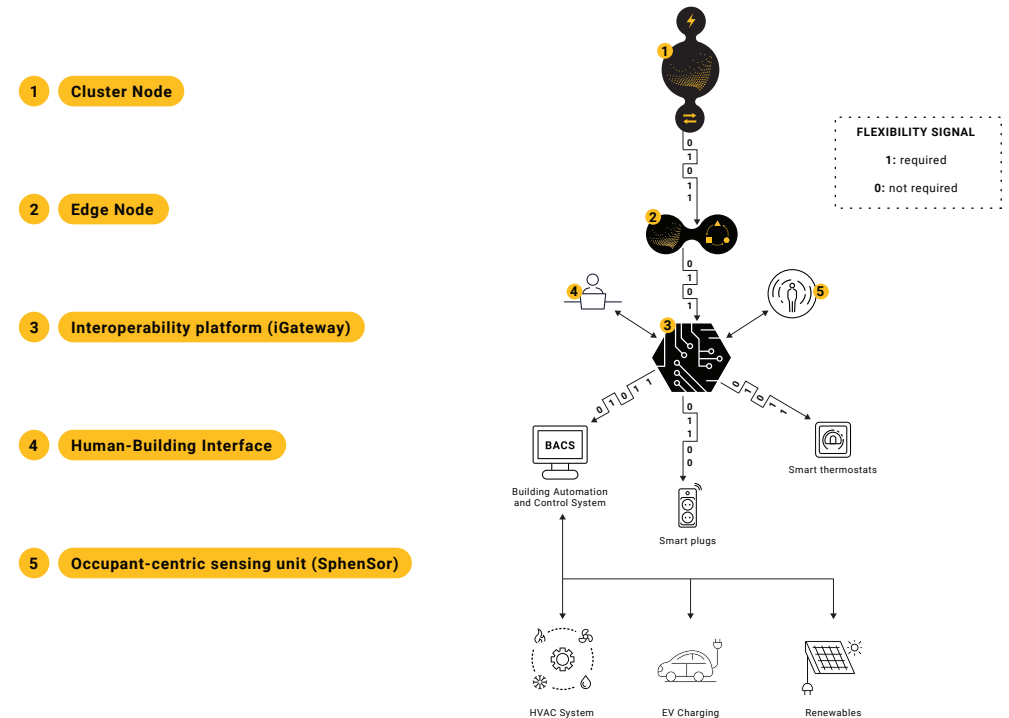
- Upgrade the smartness level of existing buildings
- 0.2-3 €/m² annual energy cost savings for buildings
- On average reduce the primary energy use by 16%
- Increase user satisfaction by at least 15%
- Increase the demand flexibility by at least 24%



OUR UNIQUE METHODOLOGY

Taking advantage of a collaborative system.

The COLLECTiEF methodology enhances the collaboration between household appliances at the building scale and between buildings at the urban scale to help the urban energy system to pass the peak hours safely. The developed methodology based on collective intelligence allows to do this without risking users' privacy and not communicating users' preferences outside the building.



Did you know?

Buildings are the largest single energy consumer in the EU being responsible for 40% of total consumption. Renovating and improving energy performances in our building stock is crucial to achieve the EC energy and climate goals by 2050!