

Making decarbonisation of existing buildings a reliable and attractive investment

Deep renovation is a key action to drastically reduce energy demand and achieve the EU vision of a decarbonised building stock by 2050. However, only 1% of European buildings are being renovated yearly and shallow retrofits persist with low impact on energy consumption.

StepUP project is developing **affordable solutions and technologies** aimed at **transforming the energy renovation market** and making the decarbonisation of existing buildings a reliable, attractive and sustainable investment.

To achieve this, StepUP uses **continuous feedback loops** and promotes **an iterative deep energy renovation approach**, based on data insights, which minimises performance gaps, reduces investment risks, minimises disruption and positively impacts on energy costs, Indoor Environmental Quality (IEQ) and comfort.

StepUP technologies



Plug & Play

Pre-assembled envelope panel integrating windows and provisions for the technical systems



Innovative financing tools for deep renovation

Energy Performance Contracts (EPCs) based on co-investment, continuous performance measurement and management



Plug & Play SmartHeat solution

Groundbreaking technology for flexible consumption of thermal energy monitored and optimised through StepUP data tools



Software tools and platform for data collection

Data intelligence solutions to generate a sound base for the continuous measurement and verification of the renovation

StepUP pilots

StepUP solutions are being demonstrated in three different types of buildings



Public non-residential building
Zöld-Liget Kindergarten
Budapest 18th District, Hungary



Multi-family residential dwelling
Monasterio de Urdax
Pamplona, Spain



Rental private-office building
IES Helix Building (Virtual pilot)
Glasgow, Scotland

