Steptp

Solutions and technologies for the uptake of deep energy renovation processes



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

Objectives

Make renovation more attractive and reliable with a new methodology based on near-real time data intelligence.

> Reduce the performance gap to 10% by developing an integrated life-cycle software platform

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

StepUP will offer a real opportunity to reach net zero emission buildings, by developing a non-intrusive, quick and reliable deep renovation intervention solution that will minimise the duration of onsite works and the risk of installation errors



Optimise renovation investments by developing innovative financial models.

Minimise time on site

to 40% of current renovation onsite work by creating a market-ready modular renovation package of Plug & Play technologies.

Accelerate the renovation market

via an interoperability protocol for renovation solutions, enabling compatibility of StepUP with third-party market products



Plug & Play

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



Plug & Play SmartHeat solution

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



Innovative financing tools for deep renovation Energy Performance Contracts (EPCs) based on co-investment, continuous performance measurement and management



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



