

CONSORTIUM

In **REV-UP** we transform buildings into smart, energy-producing systems through innovative façade technologies, renewable energy integration, and digital solutions.



Project Information

Project Acronym: REV-UP

Project Title: IntegRated clean Energy harVesting modUlar enveloPe systems for Positive energy buildings

Topic: TRI7 Integration in built environment

Duration: 11/2025 - 10/2028



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REV-UP

IntegRated clean Energy
harVesting modUlar enveloPe
systems for Positive energy
buildings



<https://rev-up.solutions>



WE AIM

REV-UP supports Europe's transition to climate-neutral buildings with integrated Zero-Emission Buildings (ZEB) solution



Deliver integrated ZEB Solution

by combining innovative building technologies, renewable energy systems and interoperable ICT.



Transform buildings into active energy participants

that generate, store, optimise and exchange renewable energy



Improve energy performance, flexibility and resilience

of buildings and the energy system



Empower users and stakeholders

with digital tools for informed decision-making and energy optimisation



Demonstrate and validate

solutions in real and simulated environments across Europe

REV-UP SOLUTION PACKAGE



Solar Power Glazed Surface



Dynamic U-value Façade



CEPA Façade



Integrated Ventilation Autonomous Unit



ICT INFRASTRUCTURE

The digital backbone that connects building technologies, energy systems and users. It enables secure data exchange, real-time monitoring and intelligent energy management

ZEB-KIT

Building Owners & Asset Managers

Building Professionals & Designers

Occupants & Prosumers



INTEGRATED SOLUTIONS

CEPA-Multifunctional Pre-manufactured Façade

Integrates renewable energy generation, heating, cooling and thermal storage into one modular façade

Dynamic U-Value Façade

Dynamically adjusts the façade's thermal performance to optimise energy efficiency and thermal storage

Solar Power Glazed Surface

Generates electricity and recovers solar heat through transparent photovoltaic glazing.

Integrated Ventilation Autonomous Unit

Provides energy-efficient ventilation with heat recovery and individual indoor climate control.



ZEB-KIT

A suite of digital applications that empowers different user groups throughout the building lifecycle



DECISION - MAKING APP

Supports buildings owners and professionals in selecting the most suitable ZEB solution based on performance, cost and sustainability



PROSUMER / FLEXUMER APP

Enables occupants and prosumers to monitor, optimise and manage energy flows and participate in flexibility and energy services.