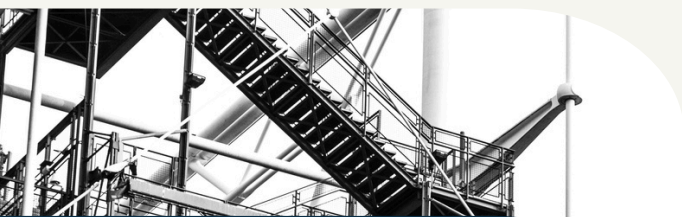## About

RINNO, a Horizon 2020 initiative, aims to create an integrated system for managing deep renovation projects. Deep renovation maximizes energy efficiency, cutting costs and improving performance.

- EU buildings consume **40%** of the region's energy and contribute **36%** of its greenhouse gas emissions.

- By 2050, over **85%** of EU buildings will still be in use, necessitating significant renovation for sustainability.

- RINNO will advance residential renovation by leveraging new technologies and financing models and creating a cloud-based platform for the Planning & Design, Retrofitting, and Monitoring phases.

Connect With RINNO

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Meet Our Partners

The RINNO Project

Building a Low Carbon, Climate Resilient Future: Secure, Clean & Efficient Energy

https://rinno-h2020.eu/

Objectives

RINNO aims to accelerate the EU's deep renovation rates by reducing time, effort, and costs while improving energy performance:

- **Faster Renovation**: >40% reduction in time through automation.

- **Cost Reduction**: 30% cut in renovation and energy expenses.

- **Increased Revenues**: Expanded offerings for market penetration and customer satisfaction.

- E**nhanced Competitiveness:** Improved energy performance and digital innovation.

- **Quality Improvement:** Faster decision-making and better project control.

RINNO is aiming for a 3.5% annual renovation rate, saving 165 GWh in primary energy and about 40,400 tons of CO2-eq annually.

Building Blocks of the RINNO Open Renovation Platform

1. **Renovation Repository:** cost-efficient, sustainable, cutting-edge

2. **Planning and Design Assistant:** identifies optimal scenarios

3. **Retrofitting Manager:** supports and monitors processes

4. **Building Lifecycle Renovation Manager:** monitors lifecycle performance

5. **Renovation Workflow & Transactions Manager:** data exchange quality assurance

6. **User Administration & Support Module:** manages account activity

7. **Social Collaboration Platform:** for connection and communication

8. **Training Manager:** facilitates various learning curves

9. **Finance Manager:** mechanisms for sourcing funds for projects

10. **The RINNO Marketplace:** leverages the renovation repository

Pilot Sites

The solutions developed by RINNO will be demonstrated at four large-scale residential pilot sites covering different EU climate zones in Greece, France, Poland, and Denmark.

Greece: Deep energy renovation of a multi-dwelling residential building to meet the Passive House Premium standard.

France: Deep renovation of a multi-dwelling residential building to reduce its energy footprint and improve air quality and occupant comfort.

Denmark: Deep renovation efforts on a multi-dwelling residential building to reach low energy standards.

Poland: Improved thermal comfort and reduced energy use and costs within a multi-family residential dwelling.