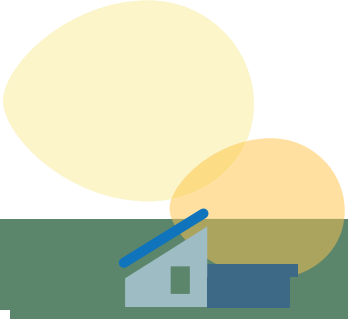
BREEZE

BREEZE PROJECT

BUILDING RENOVATION EFFORTS FOR ZERO EMISSION BUILDINGS



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ACCORDING TO THE EUROPEAN COMMISSION, BUILDINGS IN THE EU ACCOUNT FOR ROUGHLY 40% OF TOTAL ENERGY CONSUMPTION AND 36% OF CO_2 EMISSIONS.

Source:

RENOVATING THE EXISTING BUILDING STOCK COULD DELIVER SUBSTANTIAL ENERGY BENEFITS - CUTTING OVERALL EU ENERGY USE BY AN ESTIMATED 5 - 6% AND REDUCING CO_2 EMISSIONS BY AROUND 5%.

Source:

Project Overview

BREEZE aims to support EU Member States in accelerating the renovation of buildings by improving and harmonizing national databases on energy performance, in line with the Energy Performance of Buildings Directive (EPBD) Recast. Using building data from Poland, Italy, and France, the project develops tools, capacity-building activities and reference case studies that help design effective renovation policies.

Source: European Union, 2013

Objectives

- Support Member States‘ building renovation actions through roll-out of building data and the improvement of national databases for building energy performance.
- Provide open-source tools for cost-optimal renovation strategies and scenario planning.
- Integrate Indoor Environmental Quality (IEQ) standards and Solar Mandate into renovation pathways.
- Support the EU’s transition toward zero-emission, energy-efficient, and healthy buildings.

Approach

BREEZE takes a strong interdisciplinary approach, bringing together 8 partners from 7 countries across Europe. This collaboration combines expertise in building renovation, energy performance, indoor environmental quality, and renewable energy integration.

Innovation & Relevance

- EU-wide approach combining IEQ, PV integration, and cost-optimal renovation.
- Open-source tools enabling transparent, data-driven decision making.
- Practical case studies supporting both national strategies and local renovation planning.
- Strong alignment with the EPBD Recast and the EU’s climate and energy objectives.

Source: European Union, 2014

Expected Results for Stakeholders

- Policymakers: Harmonized calculation methods, renovation roadmaps, and scenario planners for evidence-based policy design.
- Local authorities: Guidance for planning and monitoring renovations, reducing energy poverty, and improving IEQ.
- Building professionals: Tools for IEQ prediction, cost-optimal renovation design, and PV/BIPV integration.
- Building owners: Healthier, more comfortable buildings with lower energy bills and clear guidance for renovation actions.
- Industry: Access to building stock data, regulatory guidance, and support for scalable solutions.

Impact

BREEZE accelerates the shift toward zero-emission buildings by improving data quality, supporting smart renovation decisions, and strengthening national and local capacities. The project contributes directly to achieving EU climate-neutrality and renewable energy targets.

Source: European Communities, 2001

Partners

WIP RENEWABLE ENERGIES

CSTB le futur en construction

DTU

ENEA

EPB CENTER

eurac research

NAPE NATIONAL ENERGY CONSERVATION AGENCY

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