Tool-Kit for "Passive House Retrofit"

E-RETROFIT-KIT

Social housing companies in 14 countries were given the chance to benefit from a tool kit designed to help them carry out retrofitting in such a way as to considerably reduce primary energy consumption (by up to 120 kWh/m² a year.) The tool kit includes best practices, “Passivhaus” standards and a methodology. Retrofitting methods include better insulation, air-tightness and balanced ventilation which encompass cooling in southern climes.

Results

- Web-tool describing possible measures for typical buildings now operational in 11 languages.
- 35 energy saving measures for low energy retrofitting using the Passivhaus technology.
- Links to manufacturers of products, components and materials to help the implementation of such measures are provided in the web-tool.
- Developments of low energy concepts for retrofitting in hot southern European climates.

Lesson learned

- The retrofitting to 'Passivhaus' standards can take place in buildings, which have to carry out a thorough retrofitting, typically due to physical degradation of the building, bad housing comfort or social degradation of the neighbourhood.
- Specific products for the retrofitting to "Passivhaus" standards have not yet been identified as part of the certification process, e.g. insulation systems for existing buildings, pre-fabricated roof top housing elements or ventilation systems adapted to existing buildings. Such products shall be identified.
- Specific and concrete concepts for the retrofitting of social housing to the "Passivhaus" standards have not been developed for Southern European climates with problems of overheating. These concepts have to be developed as part of the project.

Partners and coordinator

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**Budget**

Overall budget: 877.230,00 € (EU contribution: 50,00 %)

**Key documents**

- E-retrofit Kit Project Report [7]  
  PDF 1.86 MB

**In brief**

Sector: Buildings  
Duration: 01/01/2006 to 31/12/2007  
Contract number: EISAV/EIE/05/091/2005  
Website: http://www.energieinstitut.at/retrofit/

**Tags:**

building

**Related projects**

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