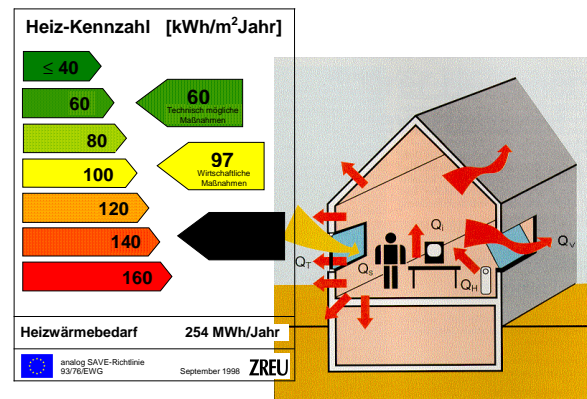


# TOWARDS AN EUROPEAN LOW ENERGY STANDARD IN EXISTING BUILDINGS

## INVESTIGATING POTENTIAL FOR BUILDING RETROFITTING IN ORDER TO REDUCE ENERGY CONSUMPTION IN THE DOMESTIC SECTOR

### The objectives

In Germany, France, the UK and Sweden, building heating plays an important role in the energy consumption structure. The aim of the project was to identify the market potential in these countries for implementing energy saving technologies in existing buildings, in the form of building retrofitting. The energy saving potential and environmental impact resulting from the application of these technologies in the existing building stock was also investigated.



### The project

Two major tasks were elaborated within the project. The first was to analyse the market potential of technologies with low energy house standards in the building retrofitting sector. The second was the development of a strategy to exploit the identified energy saving potential on a European level. A workshop was held in order to discuss the findings, bringing together international experts in the field of building retrofitting.

### The results: technical

The project took stock of the most common building types in the countries studied, providing representative analyses of energy use for the entire building stock in each country. Based on this assessment, the most suitable retrofitting concepts were developed, aimed at reducing energy consumption for space heating in the domestic building sector. Comparisons were drawn between the four countries.

### The results: economic, social & environmental

The market potential of energy saving technologies in the building retrofitting sector was determined for Germany, France, the UK and Sweden and environmental impact was evaluated. Recommendations were made, based on the findings of the study, advocating a need for financial incentives, information activities, legal tightening, research and development activities and demonstration and dissemination activities. By structuring and combining these often interdependent activities on three different levels (regional, national and EU) they would benefit from each other, thus rendering them more effective.

### Project partners

- Zentrum für rationelle Energieanwendung und Umwelt GmbH, Regensburg (DE) (Co-ordinator)
- CIT Energiteknisk Analys Installationsteknik AB, Gothenburg (SW)
- ETP Ltd, Cardiff (UK)
- ADEME, Paris (FR)