

On behalf of:



Federal Ministry
for the Environment, Nature Conservation,
Building and Nuclear Safety

Implemented by:

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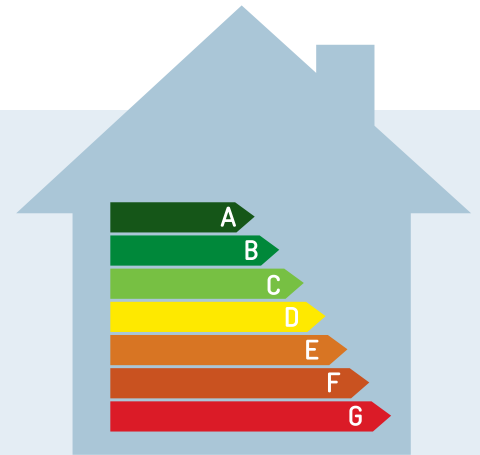
Energy efficient pilot project

Modern technology in daily use

Commissioned by	German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB), as part of the International Climate Initiative (IKI)
Partner	Ministry of Regional Development, Building and Housing and Communal Services of Ukraine
Current term	2009-2016
Budget	EUR 4.5 million

Success Story

Energy efficiency has become an important topic in the education of engineers and architects. Each year 50 students graduate with a Master's degree in 'Energy efficient construction' from the Kyiv National University of Construction and Architecture. The Master's programme was developed in cooperation with this project, which is financed by the German Federal Government. In addition to this, each year 125 craftspeople get advanced training on energy efficiency at the Kyiv College of Building, Architecture and Design.



Objective

A modern building complex is created and serves as a best practice example for eco-friendly construction and the efficient use of energy and other resources. This applies to all project phases – to the planning, construction and the subsequent operation. Another purpose of the building is to raise awareness of the applied procedures and technologies within the Ukrainian building sector, and to promote their use.

Challenges

A large part of buildings in Ukraine is in bad structural condition and does not fulfil modern energy efficiency standards. For example, a lot of energy is lost for heating and warm water preparation. Many electrical installations are also outdated. Even though higher standards became compulsory, even new construction projects are still far below European levels. This is because the construction process is poorly executed and there is insufficient knowledge in the area of energy efficiency.

Activities

Together with the Ukrainian partners a planned office and residential complex in Kiev's Scherbakowa-Str. was selected to serve as a best practice example of how modern technology can be used to significantly improve a building's energy efficiency. Engineering firms from Germany gave advice to the Ukrainian designers and building companies that were involved in the drafting of the energy concept. This concept foresees the use of solar thermal energy, heat pumps and a ventilation system with heat recuperation. Operators and users get an introduction to the new installations. Experiences from this project are documented and made available to the entire building sector.

Results

The combined office and residential complex uses 30 to 50% less energy when compared to similar buildings. It serves as a training place for architects and engineers, who can use it to study how the applied technologies reduce energy consumption on a day-to-day basis. International organisations also use the building to demonstrate European standards for energy efficient construction.

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