

Innovative Financing Takes Pilot to Programme

Towards Class A - Shining examples

... are everywhere and in a town near you...

inspiration and Financing

This project was inspired by Latvia's need to address its deteriorating residential high-rise stock, and by Germany wishing to disseminate its experience overcoming similar problems in its stock.

Consequently the Senate for Urban Development [Berlin] and the Latvian Ministry for Environment and Urban Development [Riga] agreed that the Berlin municipal government would fund 50% of the pilot's administrative costs, or EURO 250,000. The remaining EURO 250,000 was made available by sponsoring construction companies and manufacturers.



Project Management

The local partner and beneficiary was the Zemgale Municipality of Riga. IWO, an association of public/private partners targeting sustainable construction in Eastern Europe, was brought in as project manager. A public-private partnership was formed, allowing architect/engineering firm BBP Bauconsulting and scientific institutions from Berlin and Riga to join the project. Further project partners joined later, including construction companies providing sponsored products.

The construction phase of the project ran from July to October 2001, then the energy performance of the project building was compared with a very similar, unimproved building in Berlin.

Improvements

- Insulation to the façade, roof and basement ceiling. New windows were added and the heating system was completely overhauled
- Heating costs reduced from EURO ~240 per year to ~120 per year for the average flat.
- New facade contributes to more attractive locale
 - for details, see the Display website!

Key Performance Data

The measured heating energy savings were:

- | | |
|-------------------------|--------------------------------|
| • Before refurbishment: | 155 kWh/m ² a |
| • After refurbishment: | 73 kWh/m ² a |
| • Energy saved: | 82 kWh/m ² a or 53% |

The CO2 emissions savings per dwelling were:

- | | |
|-------------------------|-------------------|
| • Before refurbishment: | 2,442 kg/a |
| • After refurbishment: | 1,046 kg/a |
| • CO2 emissions saved: | 1,395 kg/a or 57% |

Resident Involvement

This was central to the project, as the funders wanted to demonstrate that energy efficient high-rise refurbishment could be successfully achieved without decanting residents – and this would not have been possible without consulting them. Consequently written material was distributed and a series of meetings and consultations took place.

Such was the success of this pilot, that a programme addressing energy efficient high-rise across Latvia is now underway.



www.display-campaign.org

Partners



EnEffect

EuroACE



Contact

Partner

Energie-Cités - the association of European local authorities promoting local sustainable energy policy (coordinator)
EnEffect - Centre for Energy Efficiency (Bulgaria)
EuroACE - European Alliance of Companies for Energy Efficiency
CEMR - Council of European Municipalities and Regions
ACE/CAE - Architects' Council of Europe

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Intelligent Energy

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