Collecting data from energy certification to monitor performance indicators for new and existing buildings

DATAMINE

This project has been driven by the need for concrete data on potential energy savings and CO2 reductions in the European building stock. Data will in turn help develop tailored, cost-efficient complementary measures to energy performance legislation, such as soft loans and tax incentives. DATAMINE aims to construct a knowledge base using the information on the energy performance certificates issued when buildings are constructed, sold or rented. The test data comes from buildings in 12 different countries and full allowance is made for the Europe-wide differences in certification schemes, since each country has a scheme tailored to its specific needs, building stock and climate.

Results

- Test projects have been carried out on large samples of buildings in 12 countries, each with individual monitoring targets. This gives a clearer insight into the current state of refurbishment of the buildings in each country.
- Data from around 18,000 buildings have been collected in the common DATAMINE format.
- Cross-country analysis of the collected data was carried out and monitoring systems in each country were evaluated.
- Dialogue was maintained with the national bodies implementing certification schemes across Europe.

Lesson learned

- The agreement on a harmonised data structure requires a sophisticated and ambitious discussion about the different data collection schemes and monitoring targets. Since in principle all data that a certifier acquires might be useful in future evaluations the number of data fields tends to become very large.
- On the other hand the threshold for the implementation of a harmonised data export in the various energy certificate software applications has to be kept low. Thus it was decided to limit the number of data fields to a maximum of 255.
- In addition this limitation enables an easy data handling for example in Excel sheets. Result of the intense discussion is a harmonised evaluation data structure which is now available on the project website.
Partners and coordinator

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Budget

Overall budget: 1.597.828,00 € (EU contribution: 50,00 %)
Key documents

- DATAMINE [13]
  PDF 4.46 MB

In brief

Sector: Buildings

Duration: 01/01/2006 to 31/12/2008

Contract number: EISAV/EIE/05/097/2005

Website: http://env.meteo.noa.gr/datamine/

Tags:

Energy Performance Certificates (EPCs)
building

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• [EULEB] European High Quality and Low Energy Architecture
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• [ISEES] Improving the Social Dialogue for Energy Efficient Social Housing
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