Energy Performance Assessment for Existing Non Residential Buildings.

EPA-NR

Given Europe's diversity, implementing new European legislation requires flexible tools. The EPA-NR consortium set out to produce and test one such modular tool for existing non-residential buildings, with a view to streamlining implementation of the Directive on the energy performance of buildings. The key target groups were policy makers and the energy consultants who would use the software tool. The software is compatible with the standards on energy performance calculations for buildings, prepared by the European Committee for Standardization (CEN) which draws up voluntary technical specifications to help achieve the Single Market in Europe.

Results

- Energy calculation software is available, as well as an inspection protocol and a check-list for an intake interview, together forming an overall approach to the building certification process.
- The method was successfully applied to 26 non-residential buildings covering a wide range of building types situated in diverse climates across Europe, with at least three pilot applications in each participating country.
- The reliability and accuracy of the software has been demonstrated based on internationally recognised comparisons.
- Application strategies for putting the software into practice were presented.
- National feedback committees and workshops were set up, with many countries participated as observers. 15 national authorities participated with observer country status.

Lesson learned

- Even though the European Buildings Directive had to be implemented in the EU Member States by January 2006 many of them are still working on a method and tools for which EPA-NR can be an important support (this shows also from the interest to participate as an observer).
- The assessment of the energy performance of existing buildings is much more complex than of new buildings, particularly when determining the building?s characteristics (e.g. through inspection).
- Still, the energy saving potential in existing buildings is much larger than in new buildings, so energy saving in existing buildings should be stimulated, but to be successful the specific issues are to be taken into account consciously.

Partners and coordinator

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Budget

Overall budget: 1.985.708,00 € (EU contribution: 50,00 %)

Key documents

- EPA-NR Overview of Results
  PDF 1.42 MB

In brief

Sector: Buildings

Duration: 01/01/2005 to 30/06/2007

Contract number: EISAV/EIE/04/125/2004

Website: http://www.epa-nr.org

Tags:

- standards
- building
- performance
Related projects

- [EPLABEL] A programme to deliver energy certificates for display in public buildings...
- [AVASH] Advanced Ventilation Approaches for Social Housing
- [ENPER EXIST] Applying the EPBD to improve the ENergy PErformance Requirements to...
- [ASIEPI] Assessment and improvement of the EPBD Impact (for new buildings and...
- [BESTFACADE] Best Practice for Double Skin Facades
- [BUILDING ADVENT] Building Advanced Ventilation Technological examples to demonstrate...
- [CEPH] Certified European Passive House Designer
- [CHECK IT OUT!] Check and improve the energy performance of schools and disseminate best...
- [DATAMINE] Collecting data from energy certification to monitor performance...
- [COMMONCENSE] Comfort monitoring for CEN Standard EN15251 linked to EPBD
- [CYBER DISPLAY] Communicate Your Buildings Energy Rating
- [CA EPBD II] Concerted Action supporting transposition and implementation of Directive...
- [CONSTRUCTION21] CONSTRUCTION21- A EUROPEAN GREEN BUILDING EXCHANGE
- [CERTuS] Cost Efficient Options and Financing Mechanisms for nearly Zero Energy...
- [AFTER] Cost Optimum and Standard Solutions for Maintenance and Management of the...
- [ROSH] Development and marketing of integrated concepts for energy efficient and...
- [EEBD] Development of an interactive vocational Web training tool for the take-...
- [VENT DISCOURSE] Development of Distance Learning Vocational Training Material for the...
- [EDUCA RUE] Energy Efficiency Paths in Educational Buildings
- [COOLREGION] Energy efficient Cooling in regions of North and Central Europe
- [ECOLISH] Energy Exploitation and Performance Contracting for Low Income and Social...
- [EI-EDUCATION] Energy Intelligent Education for Retrofitting of Social Houses
- [EPI-CREM] Energy Performance Integration in Corporate Public Real Estate Management
- [EPI-SOHO] Energy Performance Integration in Social Housing, a strategic approach for...
- [ENSLIC BUILDING] Energy Saving through promotion of Life Cycle analysis in Building
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- [E-TOOL] Energy-toolset for improving the energy performance of existing buildings
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- [EPEE] European fuel Poverty and Energy Efficiency
- [EUROPEAN] European High Quality and Low Energy Architecture
- [ENFORCE] European Network for the Energy Performance Certification of Buildings
- [E-SEAP] European Sustainable Energy Award for Prisons
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- [HARMONAC] Harmonizing air-conditioning inspection and audit procedures in the...
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- [IMPACT] IMProving energy Performance Assessments and Certification schemes by Tests
• [ISEES] Improving the Social Dialogue for Energy Efficient Social Housing
• [ILETE] Initiative for Low Energy Training in Europe
• [INOFIN] Innovative Financing of Social Housing Refurbishment in Enlarged Europe
• [INTEND] Integrated Energy Design in Public Buildings
• [CENSE] Leading the CEN standards on energy performance of buildings to practice....
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• [ENERGY TROPHY+] Magnify success: Extension of the European Energy Trophy competition to 18...
• [PASSIVE-ON] Marketable Passive Homes for Winter and Summer Comfort
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• [NIRSEPES] New Integrated Renovation Strategy to improve Energy PErformance of Social...
• [NZB2021] NZB2021 ‘Doors Open Days’ – sharing experiences from low energy buildings...
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• [STABLE] Securing The Take-off of Building Energy Certification: Improving Market...
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• [SHARE] Social Housing Action to Reduce Energy Consumption
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• [SURE-FIT] Sustainable Roof Extension Retrofit for High-Rise Social Housing in Europe
• [TACKOBST] Tackling Obstacles in Social Housing
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• [BUILDING EQ] Tools and methods for linking EPDB and continuous commissioning
• [TOWARDS CLASS A] Towards Class A - Municipal Buildings as Shining Examples
• [TREES] Training for Renovated Energy Efficient Social housing
• [REE_TROFIT] Training on Renewable Energy solutions and energy Efficiency in...
• [KEEP COOL II] Transforming the market from "cooling" to "sustainable...
• [TABULA] Typology Approach for Building Stock Energy Assessment
• [USE EFFICIENCY] Universities and Students for Energy Efficiency


Links