Intelligent Energy Europe
EIE-2003-096

Newsletter

9, November 2006

Applying the EPBD to improve the Energy Performance Requirements to Existing Buildings – ENPER-EXIST

Content:

Announcements workshops conferences etc.

4th European conference on energy performance and indoor climate in buildings (EPIC), 20-22 November 2006, Lyon including ENPER-EXIST workshops

for further information see: http://epic.entpe.org

How to register to receive a short e-mail notification for each newsletter of ENPER-EXIST

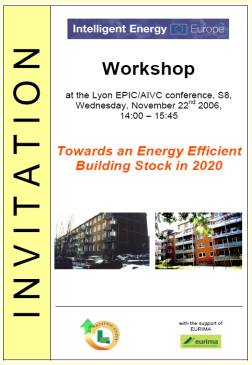
go to www.enper-exist.com enter your name and e-mail address and become a member of our newsletter interest group

Invitation to the next ENPER-EXIST workshops at the EPIC conference in Lyon

ENPER-EXIST will organise workshops in 2 different sessions during the EPIC/AIVC conference in Lyon.

The first workshop "Challenges for the implementation of the EPBD – Application to existing buildings" will take place on Tuesday 21/11/06 at 11:15 – 13:00. It will present the results out of the project work packages 1, 2 and 3 and will therefore deal with getting EPBD energy ratings adapted to existing buildings, with non-technical aspects of the EPBD implementation and with the available building stock knowledge and how it can be improved. The ENPER-EXIST team will give insights in the soon to be expected reports and the diversity of presentations will most probably lead to interesting discussions. One of the presentations will be made by R. Lahrech from CSTB, who will introduce the EPA-NR method for calculating the energy performance of non-residential buildings. The following list shows the planned presentations and speakers:

- global structure of ENPER-EXIST (J.C. Visier, CSTB)
- challenges to calculate the ratings for existing buildings: the experience of ENPER-EXIST work package 1 (D. van Dijk, TNO)
- EPA-NR put into practice (R. Lahrech, CSTB, B. Poel, EBM consult)
- a holistic vision of interrelated non-technical aspects (M. Santamouris, NKUA)
- ENPER-EXIST building stock knowledge including Danish experience from labelling (K. Engelund Thomsen, SBi)



On Wednesday, 22/11/2006 from 14:00 – 15:45 a workshop on future possibilities for energy saving measures in the Member States will be held under the title "Towards an Energy Efficient Building Stock in 2020". ENPER-EXIST and external speakers will discuss about national and international approaches for energy saving measures that go beyond the EPBD requirements. The planned presentations and speakers are as follows:

- introduction (P. Wouters, BBRI)
- roadmap for further actions regarding the energy performance of existing buildings (X. Loncour, BBRI)
- energy saving measures in existing buildings in Denmark (S. Aggerholm, SBi)
- building blueprint: endorsement schemes for building energy efficiency improvements in the EU25 (F. Klinkenberg, Klinkenberg Consultants)
- vision of the industry (P. Eveillard, Saint-Gobain)
- questions and answers with the different speakers

As the workshops will be part of the EPIC/AIVC conference it is necessary to register at http://epic.entpe.org/

Newsletter no. 10 will offer a summary of the workshops. The presentations will be available as pdf documents on the website at the end of November. Final drafts of the first reports out of ENPER-EXIST will be at the website for download before the 22nd November 2006.

written by: H. Erhorn-Kluttig, FhG-IBP
further information including a more detailed programme of the workshops:
http://www.enper-exist.com/wshops.html

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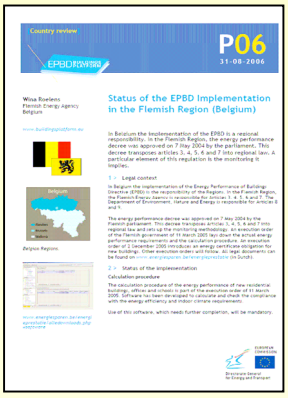
Information Papers on the status of national EPBD implementations available on the EPBD buildings platform website

The EPBD buildings platform, a project sponsored by the Directorate General for Energy and Transport, has started to present information papers on the status of the national EPBD implementation.



So far information papers from the following countries are available:

- Belgium (Flemish Region)
- the Netherlands
- Portugal
- Denmark

Summaries for other countries will follow soon. The authors also act as representatives for their nation in the EPBD Concerted Action project. They inform about the legal context, the status of implementation concerning the calculation procedures, the requirements for new buildings, the requirements for existing buildings, the certification of buildings and the inspection of boiler and air conditioning. Additionally they write about future planning and give links to relevant information like governmental website on the EPBD items etc.

Besides the national papers, specific information papers on the different items covered by the EPBD are also offered in different languages for download such as:

- Energy performance certification procedures, present status
- Regular inspection of boilers – simple on-site measurements for estimating energy performance
- Minimum energy performance requirements

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further information: http://www.buildingsplatform.org

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New IEA ECBCS Annex 46 on Energy Efficient Retrofit Measures for Governmental Buildings

The International Energy Agency (IEA) has started a new Annex under the header of "Holistic Assessment Tool-kit on Energy Efficiency Retrofit Measures for Government Buildings". The scope of the Annex is the decision making process for energy retrofitting of Government buildings, e.g. offices and production facilities as well as military barracks.

The objectives of this Annex are:

- to provide tools and guidelines for decision makers and energy managers, performance contractors and designers to improve the working environment of Government buildings through energy-efficient retrofitting projects;
- to provide recommendations on how to operate the retrofitted buildings;
- to promote energy- and cost-efficient retrofit measures by providing successful examples;
- to support decision makers in evaluating the efficiency and acceptance of available concepts;
- to find improved ways of using Energy Performance Contracts (ESPC's) for Government buildings retrofit measures.

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IEE SAVE projects in the pipeline

The Intelligent Energy Executive Agency (IEEA) has released a list of projects that were submitted under the 2005 call for proposals in the SAVE area and that have successfully passed the evaluation. They are therefore likely to start later in 2006 or in early 2007. The listed project are:

- Integrated Energy Design in Public Buildings (INTEND)
- Energy Efficient Cooling in regions of North and Central Europe (COOLREGION)
- Tools and Methods for Linking EPBD and Continuous Commissioning (EPBD-cx)
- Building Advanced Ventilation Technological Examples to Demonstration Materialised Energy Savings for Acceptable Indoor Air Quality and Thermal Comfort in Different European Climatic Regions (Building AdVent)
- IMPLEMENT – The EPBD in Action
- Check and Improve the Energy Performance of Schools and Disseminate Best Practices (CHECK IT OUT!)
- Sustainable Energy Systems in New Buildings – Market Introduction of Feasibility Studies under the Directive on Energy Performance in Buildings (SENTRO)
- Magnify success: Extension of the European Energy Trophy competition to 18 countries (Energy Trophy+)

A summary of the planned project contents, the coordinating organisations and the participating countries is also given at the IEEA website.

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further information:
http://ec.europa.eu/energy/intelligent/projects/doc/buildings.pdf

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Disclaimer:

ENPER-EXIST has received funding from the Community's Intelligent Energy Europe programme under the contract EIE/04/096/S07.38645

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EU Commissioner Piebalgs hands over Energy Performance Certificates for 2 European schools at the start of the new EU Action Plan for Energy Efficiency

The EU Commission has chosen the Fraunhofer Institute of Building Physics as issuer for the energy performance certificates for two EU schools in Brussels. Commissioner A. Piebalgs handed over the certificates to the school prinicipal K. Kivinen during a press event at the school centre. EURIMA sponsored the event and made it possible that the well-known comic character Bob the Builder participated, much to the delight of the pupils from the nursery and elementary school.

Figure: Left K. Kivinen, principal of the school, in the middle A. Piebalgs, EU Commissioner.

Mr. Piebalgs took the occasion and explained to the children that also their contribution to save energy is very valuable with actions like turning off lights and electronic equipment if not in use.

The Commission decided for the German calculation method for energy performance certificates because the Belgian calculation method is not yet ready for application and the German methode is one of the most advanced. The elder school building (Fabiola, built 1986) resultes in a rather high primary energy demand of 396 kWh/m²a compared to the allowed value of 299 kWh/m²a for existing comparable buildings. The second school building however, the Erasmus building from 2003, meets with 128 kWh/m²a the requirements for a comparable new school building in Germany. Thus the new school building uses about 70 % less primary energy because of energy efficient building components and HVAC systems.

Additionally to the certificates, the researchers from Fraunhofer-IBP gave recommendations for the improvement of the energy efficiency of both schools.

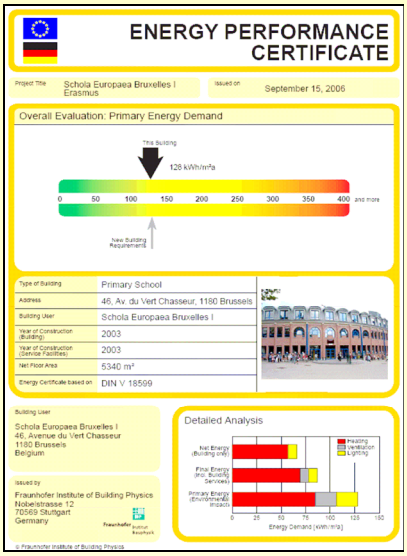

Figure: Energy performance certificate for the school building Erasmus.

Subsequent to the event at the school the Commissioner gave a press conference for the start of the new Action Plan for Energy Efficiency "Realising the potential – Saving 20 % by 2020" in the Berlaymont building. The EU Commissions Berlaymont building has been the first EU building with international energy performance certificates in 2005.

The Action Plan, which will be implemented over the next six years, is in response to the urgent call from Heads of State and Government at the Spring European Council this year for a realistic Energy Efficiency strategy. The Plan underlines the importance of minimum energy performance standards for a wide range of appliances and equipment (from household goods such as fridges and air conditioners to industrial pumps and fans), and for buildings and energy services. In combination with performance ratings and labelling schemes minimum performance standards represent a powerful tool for removing inefficient products from the market, informing consumers of the most efficient products and transforming the market to make it more energy efficient. Minimum performance requirements for new and renovated buildings will be developed. Very low energy consumption buildings (or passive houses) will also be promoted.

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