Development of an interactive vocational Web training tool for the take-off of the buildings DIRECTIVE 2002/91/EC

EEBD

The partners in the EEBD action aimed to produce a web-based vocational tool to help implement the training requirements for the building certification market arising from new European legislation. Project partners investigated the vocational training needs across the regions of the EU and developed appropriate training material as well as an electronic platform. The resulting web-based tool was based on thorough testing, involving virtual classrooms, to produce a robust product which could act as a central source of training info for engineers.

Results

- Large differences in knowledge levels and needs were identified across sectors of the market. A detailed analysis of the market requirements was produced and disseminated.
- A fully functional vocational training tool in a multi-lingual format is available on-line. This tool can assist training providers and is available in dual operational formats.
- Virtual classrooms with building professionals and owners were held in four countries, attracting in some cases over 100 trainees.
- A training syllabus was set out covering themes such as energy performance certificates and inspection of boilers and air conditioning systems.

Lesson learned

- The vocational training needs concerning the European Buildings Directive were analysed through a questionnaire. 950 responses were obtained. The results of these questionnaires are the basis for the vocational training tool design, but it will also initiate a valuable feedback habit for training content and the regular update of end user needs in order to keep the future dynamic training tool up to date.
- Across all professional categories and in all countries there is a need for general information on the European Buildings Directive, and on regional differences in regulations and energy performance in buildings. Depending on their profile, end users demand a variety of specific information. However the project results to date suggest that most end users (with details depending on the professional's profile) require information on Calculation methods and software used Certification procedure.
- Since there are significant delays in countries' transposition the vocational training tool should be flexible and expandable for future use.
Partners and coordinator

| **Technological Educational Institute of Crete** [1] | Greece |
| **Arbeitsgemeinschaft Erneuerbare Energie** [2] | Austria |
| **Black Sea Regional Energy Centre** [3] | Bulgaria |
| **Université de La Rochelle** [5] | France |
| **BYTE COMPUTER S.A.** [6] | Greece |
| **National and Kapodistrian University of Athens** [7] | Greece |
| **REGION OF CRETE - REGIONAL ENERGY AGENCY OF CRETE** [8] | Greece |
| **Federation of European Heating and Air-conditioning Associations** [9] | Netherlands |
| **Building Research Establishment Ltd** [10] | United Kingdom |

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Budget

Overall budget: 1.402.076,00 € (EU contribution: 50,00 %)

Key documents

- [Project slides] [11]
  - PDF 141.69 KB

In brief

Sector: Buildings

Duration: 01/01/2005 to 31/08/2007

Contract number: EISAV/EIE/04/143/2004

Website: http://www.eebd.org
Related projects

- **EPLABEL** [12] A programme to deliver energy certificates for display in public buildings...
- **ENPER EXIST** [14] Applying the EPBD to improve the ENergy PErformance Requirements to...
- **ASIEPI** [15] Assessment and improvement of the EPBD Impact (for new buildings and...
- **BESTFACADE** [16] Best Practice for Double Skin Facades
- **BUILDING ADVENT** [17] Building Advanced Ventilation Technological examples to demonstrate...
- **CEPH** [18] Certified European Passive House Designer
- **CHECK IT OUT!** [19] Check and improve the energy performance of schools and disseminate best...
- **DATAMINE** [20] Collecting data from energy certification to monitor performance...
- **COMMONCENSE** [21] Comfort monitoring for CEN Standard EN15251 linked to EPBD
- **CYBER DISPLAY** [22] Communicate Your Buildings Energy Rating
- **CA EPBD II** [23] Concerted Action supporting transposition and implementation of Directive...
- **CONSTRUCTION21** [24] CONSTRUCTION21- A EUROPEAN GREEN BUILDING EXCHANGE
- **CERTuS** [25] Cost Efficient Options and Financing Mechanisms for nearly Zero Energy...
- **AFTER** [26] Cost Optimum and Standard Solutions for Maintenance and Management of the...
- **ROSH** [27] Development and marketing of integrated concepts for energy efficient and...
- **VENT DISCOURSE** [28] Development of Distance Learning Vocational Training Material for the...
- **EDUCA RUE** [29] Energy Efficiency Paths in Educational Buildings
- **COOLREGION** [30] Energy efficient Cooling in regions of North and Central Europe
- **ECOLISH** [31] Energy Exploitation and Performance Contracting for Low Income and Social...
- **EI-EDUCATION** [32] Energy Intelligent Education for Retrofitting of Social Houses
- **EPI-CREM** [34] Energy Performance Integration in Corporate Public Real Estate Management
- **EPI-SOHO** [35] Energy Performance Integration in Social Housing, a strategic approach for...
- **ENSLIC BUILDING** [36] Energy Saving through promotion of Life Cycle analysis in Building
- **INTELLIGENT METERING** [37] Energy Savings from Intelligent Metering and Behavioural Change
- **ESAM** [38] Energy Strategic Asset Management in Social Housing Operators in Europe
- **E-TOOL** [39] Energy-toolset for improving the energy performance of existing buildings
- **EDUCATE** [40] Environmental Design in University Curricula and Architectural Training in...
- **EPBD CA II** [41] EPBD Concerted Action III (2011-2015)
- **EPEE** [42] European fuel Poverty and Energy Efficiency
- **EULER** [43] European High Quality and Low Energy Architecture
- **ENFORCE** [44] European Network for the Energy Performance Certification of Buildings
- **E-SEAP** [45] European Sustainable Energy Award for Prisons
- **AUDITAC** [46] Field benchmarking and Market development for Audit methods in Air...
- **GREENBUILDING** [47] GREENBUILDING
- **HARMONAC** [48] Harmonizing air-conditioning inspection and audit procedures in the...
IMPLEMENT - The EPBD in Action

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

CENSE Leading the CEN standards on energy performance of buildings to practice....

GREENBUILDINGPLUS Leveraging the GreenBuilding Programme (GBP) to promote energy-efficiency...

LCC-DATA Life-Cycle-Cost in the Planning Process. Constructing Energy Efficient...

ENERGY TROPHY+ Magnify success: Extension of the European Energy Trophy competition to 18...

PASSIVE-ON Marketable Passive Homes for Winter and Summer Comfort

IDES-EDU Master and Post Graduate education and training in multidisciplinary teams...


NIRSEPE New Integrated Renovation Strategy to improve Energy PErformance of Social...

NZB2021 NZB2021 ‘Doors Open Days’ – sharing experiences from low energy buildings...

FACTOR 4 Programme of actions Factor 4 in existing social housing in Europe

COOL ROOFS Promotion of cool roofs in the EU

PEP Promotion of European Passive Houses

NEZER Promotion of smart and integrated NZEB renovation measures in the European...

NORTHPASS Promotion of the Passive House Concept to the North European Building...

RE-CO Re-Commissioning - Raising Energy Performance in Existing Non-Residential...

PUBLIC ZEB Refurbishment of the Public building stock towards nZEB

REQUEST2ACTION Removing barriers to low carbon retrofit by improving access to data and...

RESHAPE Retrofitting Social Housing and Active Preparation for EPBD

SAVE@WORK4HOMES SAVE@Work4Homes - Supporting European Housing Tenants in Optimising...

STABLE Securing The Take-off of Building Energy Certification: Improving Market...

KEEPCOOL Service Buildings Keep Cool: Promotion of "sustainable cooling"...

SMART-E BUILDINGS Smart-e buildings - yes we canEnable the building sector to contribute to...

SHARE Social Housing Action to Reduce Energy Consumption

STEP-2-SPORT STEP-by-STEP renovation towards nearly zero energy SPORT buildings

SAVE AGE Strengthening Energy Efficiency Awareness Among Residential Homes for...

SENTRO Sustainable Energy systems in New buildings- market inTRoduction of...

SURE-FIT Sustainable Roof Extension Retrofit for High-Rise Social Housing in Europe

TACKOBST Tackling Obstacles in Social Housing

THERMCO Thermal comfort in buildings with low-energy cooling

E-RETROFIT-KIT Tool-Kit for "Passive House Retrofit"

BUILDING EQ Tools and methods for linking EPD and continuous commissioning

TOWARDS CLASS A Towards Class A - Municipal Buildings as Shining Examples

TREES Training for Renovated Energy Efficient Social housing

RE_TROFIT Training on Renewable Energy solutions and energy Efficiency in...

KEEP COOL II Transforming the market from "cooling" to "sustainable...
• **TABULA** [89] Typology Approach for Building Stock Energy Assessment
• **USE EFFICIENCY** [90] Universities and Students for Energy Efficiency


Links