Development of Distance Learning Vocational Training Material for the Promotion of Best Practice Ventilation Energy Performance in Buildings

VENT DISCOURSE

Modern methods of education can play a vital role in increasing energy-efficiency in new buildings. Vent DisCourse adopted the distance learning method and applied it to ventilation - a core area of the energy performance of buildings. It targeted building professionals in an effort to stimulate the use of best practices in ventilation and addressed non-technological and cultural barriers via pilot training courses and awareness raising.

Results

- A 500-page textbook on state-of-the-art sustainable building ventilation, as reviewed by European experts, is available.
- An on-line version using distance learning software has been developed. Trainee assessment exercises are included.
- Modules are available on: principles of energy-efficient building ventilation; natural and hybrid ventilation; ventilation for urban buildings; energy-efficient mechanical ventilation; and the assessment of building ventilation.
- 60 post-graduate students from six universities tested the training material which has been incorporated into an M.Sc. course at Brunel University. This distance-learning degree had an intake of 43 students for the 2007/08 academic year.
- Self-training modules were published in the REHVA journal and translated into three languages. The printed journal reaches 5 000 HVAC engineers and the e-journal 100 000, worldwide.

Lesson learned

- There is a great demand for distance learning training material suitable for industrial and educational training in relation to emerging issues in energy and buildings
- The benefits of an international group of experts preparing the text are great. This is an important way to promote good technologies over between European countries
- Textbook (print version) is the preferred method of learning for university students and industrial trainees alike. The web-based facility is preferred for selective release items such as question answers or assignments and for interactive contact with other students and/or trainer
Partners and coordinator

<table>
<thead>
<tr>
<th>Partnership</th>
<th>Location</th>
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<tr>
<td>Brunel University</td>
<td>United Kingdom</td>
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<tr>
<td>Ecole Nationale TPE, Laboratoire Sciences de L'Habitat - CNRS-DGCB</td>
<td>France</td>
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<td>National and Kapodistrian University of Athens</td>
<td>Greece</td>
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<tr>
<td>Federation of European Heating and Air-conditioning Associations</td>
<td>Netherlands</td>
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<td>BSRIA LTD</td>
<td>United Kingdom</td>
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Contact

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Contact point

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Budget

Overall budget: 641.750,00 € (EU contribution: 50,00 %)

Key documents

- Best Practice in Ventilation: Vocational Courses [6]
  PDF 2.13 MB

In brief

Sector: Buildings

Duration: 01/01/2005 to 31/12/2006

Contract number: EISAV/EIE/04/022/2004

Website: http://www.ventdiscourse.eu

Tags:

building
Related projects

- **EPLABEL** [77] A programme to deliver energy certificates for display in public buildings...
- **AVASH** [8] Advanced Ventilation Approaches for Social Housing
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- **CHECK IT OUT!** [14] Check and improve the energy performance of schools and disseminate best...
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- **COMMONCENSE** [16] Comfort monitoring for CEN Standard EN15251 linked to EPBD
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- **CONSTRUCTION21** [19] CONSTRUCTION21- A EUROPEAN GREEN BUILDING EXCHANGE
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- **AFTER** [21] Cost Optimum and Standard Solutions for Maintenance and Management of the...
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- **EPEE** [37] European fuel Poverty and Energy Efficiency
- **EULEB** [38] European High Quality and Low Energy Architecture
- **ENFORCE** [39] European Network for the Energy Performance Certification of Buildings
- **E-SEAP** [40] European Sustainable Energy Award for Prisons
- **AUDITAC** [41] Field benchmarking and Market development for Audit methods in Air...
- **GREENBUILDING** [42] GREENBUILDING
- **HARMONAC** [43] Harmonizing air-conditioning inspection and audit procedures in the...
- **IMPLEMENT** [44] IMPLEMENT - The EPBD in Action
- **IMPACT** [45] IMproving energy Performance Assessments and Certification schemes by Tests
- **ISEES** [46] 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...
[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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[PEP] Promotion of European Passive Houses
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[TOWARDS CLASS A] Towards Class A - Municipal Buildings as Shining Examples
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[KEEP COOL II] Transforming the market from "cooling" to "sustainable...

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