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## New REHVA Guidebooks

(for more, see <http://www.rehva.eu/en/guidebooks> )

### REHVA Guidebook no. 16 published

#### HVAC in Sustainable Office Buildings - *A bridge between owners and engineers*

*Editors: Maija Virta*

*Contributing Authors: Frank Hovorka, Andrei Litiu and Jarek Kurnitski*

This book was created for building a bridge between the real estate community and the engineering community. It explains the challenges of property valuation based on real data and how the sustainability and HVAC-technology can have an impact on value. HVAC in Sustainable Office Buildings gathers the latest HVAC- and other technology used in sustainable buildings and gives some real case study examples. Maybe the most important part in terms of improved communication between the owners and engineers is the list of questions to be asked during the life time of a building. It is impossible to give the right answers in this book, but we can raise some pertinent questions. As climates and cultures are different, as well as existing building types and energy production, the same solutions do not solve problems universally.

### REHVA Guidebook no. 17 published

#### Design of energy efficient ventilation and air-conditioning systems

*Editor: Nejc Brelih*

*Contributing Authors: Olli Seppänen, Thore Bertilsson, Mari-Liis Maripuu, Alex Vanden Borre and Hervé Lamy*

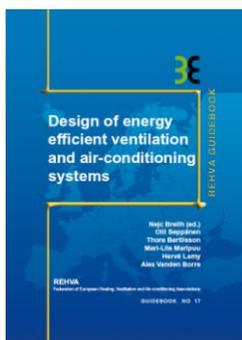
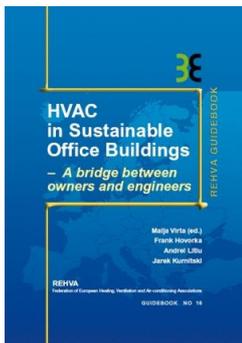
This guidebook covers numerous system components of ventilation and air-conditioning systems and shows how they can be improved by applying the latest technology products. Special attention is paid to details, which are often overlooked in the daily design practice, resulting in poor performance of high quality products once they are installed in the building systems.

## REHVA European HVAC Journal

The **August issue** of the REHVA Journal (4/2012) will focus on Ventilation and Indoor air quality - Articles are due by 3 July. The guest editor of this issue is Bjarne W. Olesen - [bwo@byg.dtu.dk](mailto:bwo@byg.dtu.dk)

The **October issue** of the REHVA Journal (5/2012) will focus on Heat pumps and Renewable Energies - Articles are due by 3 September. The guest editor of this issue is Michael Schmidt - [michael.schmidt@ige.uni-stuttgart.de](mailto:michael.schmidt@ige.uni-stuttgart.de)

The **December issue** of the REHVA Journal (6/2012) will focus on Energy Efficient Renovation - Articles are due by 1 November. The guest editors of this issue are Branko and Marija Todorovic - [todorob@eunet.rs](mailto:todorob@eunet.rs) and [deresmt@eunet.rs](mailto:deresmt@eunet.rs)



## EU-regulations

See also the [EU regulations section](#) of the REHVA website

### ***EPBD - Energy performance of buildings directive: Framework of cost-optimal levels published***

The COMMISSION DELEGATED REGULATION (EU) No 244/2012 of 16 January 2012 supplementing Directive 2010/31/EU of the European Parliament and of the Council on the energy performance of buildings by establishing a comparative methodology framework for calculating cost-optimal levels of minimum energy performance requirements for buildings and building. The document has been published in the Official Journal of the European Union 21 March 2012 - link to the English version:

[http://eur-](http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:081:0018:0036:EN:PDF)

[lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:081:0018:0036:EN:PDF](http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:081:0018:0036:EN:PDF)

### ***Energy Efficiency Directive EED***

The aim is to adopt the EED through the European Parliament and Council under Danish presidency, by the end of June 2012. This was one of the key messages in the summarizing slide of Clemens Haury's (DG Energy) opening presentation at REHVA Annual Conference in Timisoara. However, some issues is still under negotiations, including the obligation to Member States to put 3% of the whole stock of public buildings subject to major energy renovation each year - probably either the percentage or the scope will be reduced. Individual metering of heating and cooling energy in residential buildings is likely to be included, to some extent.

### ***Ecodesign - new progress in regulations***

- Solid Fuel Small Combustion Installations -The final report from Lot 15 is now available at the project website [http://ecosolidfuel.org/index\\_15.php](http://ecosolidfuel.org/index_15.php) According to the Commission's preliminary plans, the aim is that the act will be completed in 2013. It is anticipated that the preliminary working papers will be available at the spring 2012 meeting of the Consultation Forum. The study was completed already in 2009, but the final report was not available before March 1, 2012.

The scope of the study looks very fragmented, because the solid fuel small combustion installations represent a very fragmented and diverse market in Europe. The Task 1 report of the study (all new task reports can be downloaded from the "Document" page of the Lot 15 website) gives a long list of products and applications (direct heating domestic appliances, such as open fireplaces, closed fireplaces, stoves and cookers; indirect heating domestic and non-domestic appliances such as semi-automatic or automatic solid fuel boilers) are within the scope. The list of products out of scope is also long and somewhat confusing, including cooking appliances that do not provide heating, outdoor heating and cooking appliances, CHP appliances and sauna stoves. Also process heating and waste recovery products are excluded from the scope.

- **Boilers and water heaters** - After a long delay, the draft regulations for boilers (Lot 1) and water heaters (Lot 2) have proceeded, and the relevant documents for eco-design, labelling and testing and calculation of boilers and water heaters have been submitted to Member States for review in February 2012, and voting in Regulatory Committee is expected later on in spring 2012. More about the subject in REHVA Journal 2/2012, direct link to the article: <http://www.rehva.eu/en/535.ecodesign-of-energy-related-project-progress-with-boilers-and-water-heaters>

### **Ecodesign - Lot 6 Air-conditioning and ventilation**

The third and final stakeholder meeting of ENTR Lot 6 was held in Brussels 16 April 2012. The presentations, and a lot of new background documents, are now available at <http://www.ecohvac.eu/index.html> - for the slides from the meeting, go to <http://www.ecohvac.eu/meetings.htm> . Now also the final draft reports of the air-conditioning part are available, see <http://www.ecohvac.eu/documents.htm> . Stakeholders' comments are still welcome until 14 May 2012, and the target date of the final report publication is June 2012.

### **Ecodesign - Lot 20 and 21**

The third and final stakeholder meeting of [ENER Lot 20](#) (local room heating) was held in Brussels 16 April 2012, and [ENER Lot 21](#) (central heating products) the day after. The presentations from both meetings are now available on the relevant webpage ("Documents" section), indicating no major changes in scope or the outcome of the study - however, the whole picture of relationships and borderlines between different "Lots", or different products with heating function and subject to future Ecodesign regulations, looks even more complicated than before. Stakeholder can still send comments, but in a tight schedule - deadline 4 May 2012. The target date of final report publication for both studies is 18 May 2012.

## **The REHVA Annual Conference and meeting**

was held on 17-20 April 2012 in cooperation with the Romanian Installation Engineers Association (AIIR) and the Romanian General Association for Refrigeration (AGFR) in Timisoara.

The main topic of the Conference was HVAC Technology in Energy Retrofitting. Improving the energy efficiency throughout the whole European building stock is a huge challenge. Starting from the fact that all existing buildings are - at least to some extent - unique, there are also similarities and possibilities to develop common methodologies and techniques. In addition to scientific and technical approaches, financial issues, health and indoor environment have to be kept in the agenda of REHVA Task Forces and other activities dealing with energy retrofitting.

The seminar presentations will be downloadable at REHVA website very soon (<http://www.rehva.eu/en/rehva-annual-conference-hvac-technology-in-energy-retrofitting>). Some of the presentation topics, like nearly zero energy buildings and several issues dealing with European legislation and national implementation, have been introduced in REHVA Journal, and the future issue 6/2012 will focus on the main theme, Energy Efficient Renovation.

In addition to the presentations, 8 workshops were held, some dealing with on-going REHVA Task Forces or projects with REHVA involvement - like HVAC Refurbishments and Inspections of air conditioning systems, and the iSERV project - and a few organized by REHVA supporters, all dealing with better energy efficiency using advanced technologies and products.

## **iSERV project**

The second **project newsletter** has been released. It gives a clear and concise overview of the steps to participate into the project and get benefits: How to register, submit data, get your data online, monitor your information and receive feedback from the analysis of your data. For more information, download the newsletter from: <http://www.rehva.eu/en/426.iserv>

iSERV Project was presented at **REHVA Conference** in Timisoara: iSERVcmb's coordinator, Ian Knight, gave a presentation of the iSERVcmb project at REHVA's Annual Conference, on the 19th April 2012. The presentation was titled "Energy use of existing air-conditioning systems" and was very well attended by the conference participants.

On the 20th April 2012, a **workshop** was organized for the conference's participants. The concept of this workshop was to briefly introduce the work previously done, with focus on relevant tools and findings for the audience, as well as give a chance to the participants to ask questions and discuss about the applicability, ideas and concerns related to the project. The session was very interactive. Various clarifications were made on the project: monitoring can be recorded up to the component level, the age of building is taken into account, and floor area is defined from the inside walls distance, there is standard and configurable reports and reports which automatically detect ECOs based on algorithm, etc. A complete feedback of the workshop will follow.

**Upcoming events**

**Energy Week in Brussels**

*18-22 June 2012, Brussels, Belgium*

The EU Sustainable Energy Week will take place in Brussels and across Europe between 18 and 22 June 2012. Activities in Brussels will range from a three-day policy conference focusing on renewable and sustainable energy policy issues to dozens of engaging events, projects and exhibits open to the public.

*Register your attendance.* You can get involved in Brussels activities by attending one of the numerous events that are listed on the EUSEW site. Online registration at [www.eusew.eu](http://www.eusew.eu)



**VENTILATION 2012**

*17-19 September 2012, Paris, France*

More information online: [www.inrs-ventilation2012.fr](http://www.inrs-ventilation2012.fr).

**CHILLVENTA 2012**



*9-11 October 2012, Nuremberg, Germany*

Chillventa 2012, the exhibition highlight for the refrigeration, air-conditioning, ventilation and heat pump sectors, is approaching rapidly. [More information](#)

**FINNBUILD 2012**

*9-12 October 2012, Helsinki, Finland*

FINNBUILD International building and building services fair at the Helsinki Exhibition & Convention Centre - [More information](#)

**7th International HVAC Cold Climate Conference**

*12-14 November 2012, Calgary, Canada*

For more information please visit the conference [website](#).

**ACREX 2013**

*7 - 9 March 2013, Mumbai, India*

REHVA will organise several workshops at this event. A special issue of the REHVA journal will also be distributed in collaboration with ISHRAE. [www.acrex.org.in](http://www.acrex.org.in)

For sponsoring contact: [cd@rehva.eu](mailto:cd@rehva.eu)



**CLIMA 2013**

*16-19 June 2013, Prague, Czech Republic*

The 11<sup>th</sup> REHVA World Congress CLIMA 2013 will take place in Prague on 16-19 June 2013 with the theme of “Energy Efficient, Smart and Healthy Buildings”. Please visit [www.clima2013.org](http://www.clima2013.org)



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