

REHVA



Federation of
European Heating,
Ventilation and
Air-conditioning
Associations



REHVA Annual Conference

May 19 - 20, 2011

Towards net zero energy buildings and building labelling

**Meriton Grand Conference & Spa hotel,
Tallinn, Estonia**

The focus of the REHVA Conference will be on net zero Energy Buildings and building labelling.

The Conference will be covering topics as:

- Legislation and EU policy of energy efficiency and nearly zero energy buildings
- Role of technical solution in nearly net zero energy buildings
- Building labelling

In addition, the Conference will be address if the building labelling will lead to zero energy buildings and also covering case studies.

The speakers of the Conference are invited top experts of their field representing policy makers from European Commission, leaders from important organizations, scientists from top universities and professionals from member states of the European Union.



THURSDAY 19 MAY

08.30 – 10.00

Technical session 1:

Legislation and EU policy

Chair: Olli Seppänen, REHVA

- **Welcome**
Juhan Parts, Minister of Economic Affairs and Communications, Estonia
- **Cost optimal policy for energy efficiency and nearly zero energy buildings in recast EPBD Directive**
Michaela Holl, the European Commission, DG Energy
- **EU- regulations of HVAC equipment based on Eco-design directive**
Ismo Grönroos-Saikkala, the European Commission, DG Energy
- **Regulated air-conditioning and ventilation products based on Eco-design directive**
René Kemna, VHK, the Netherlands

10.00 – 10.30 *Coffee break*

10.30 – 12.00

Technical session 2:

Definitions and policy of nearly zero energy buildings (nZEB) – approaches in some countries

Chair: Livio Mazzarella, AICARR, Italy

- **Energy boundaries and scientific definition of nZEB based on the results of REHVA Task**
Jarek Kurnitski, SITRA, Estonia
- **UK policy and approach towards zero energy buildings**
Donald Leeper, CIBSE, UK
- **French policy and approach towards zero energy buildings**
Jean-Christophe Visier, CSTB, France
- **German policy and approaches towards zero energy buildings**
Michael Schmidt, University of Stuttgart, Germany

12.00 – 13.00 *Lunch*

13.00 – 15.00

Technical session 3:

Role of technical solutions in zero energy buildings

Chair: Michael Schmidt, VDI, Germany

- **Challenges for building and ductwork airtightness in nZEB**
Peter Wouters, AIVC/INIVE/BBRI, Belgium
- **IAQ and thermal comfort in zero energy buildings**
Bjarne Olesen, Technical University of Denmark
- **EPEE's heat pump manifesto: opportunities and barriers for heat pumps in buildings**
Andrea Voigt, EPEE, European Partnership for Energy and Environment, Belgium
- **Windows and Lighting in nZEB**
Jean-Louis Scartezzini, Swiss Federal Institute of Technology in Lausanne (EPFL), Switzerland
- **Solar shading in nZEBs**
Hervé Lamy, Board member and Chairman Technical Committee of ES-SO, France

15.00 – 15.30 *Coffee break*

15.30 – 17.15

Technical plenary session 4:

Case studies on nZEB

Chair: Branislav Todorovic, KGH, Serbia

- **Swedish experience of Total energy project BELOK**
Mari-Liis Maripuu, CIT Energy Management, Estonia
- **Dutch experience**
Wim Zeiler, Eindhoven University of Technology, the Netherlands
- **Half year experience from Daikin NZEB**
Ansgar Thiemann, Daikin Europe, Belgium
- **French experience**
Christian Rozier, Elithis, France
- **Finnish experiences on very low and zero energy buildings**
Jyri Nieminen, VTT Research Centre, Finland

19.00 – 23.00 *Conference walking buffet dinner*

FRIDAY 20 MAY

08.30 – 10.00

Technical session 5: Building labelling

Chair: Hendrik Voll, Tallinn University of Technology, EKVÜ, Estonia

- **Analysis of EU member states Ecolabel criteria for buildings**
Arnaud Deneyer, the Belgian Building Research Institute, Belgium
- **The route of building energy efficiency development in CHINA- The role of GBAS**
Prof. Xu Zhang, Tongji University, China
- **HVAC product labeling and certification**
Sylvain Courtey, Eurovent Certification, France

10.00 – 10.30 *Coffee break*

10.30 – 12.30

Technical session 6: Building labelling schemes and cases

Chair: Donald Leeper, CIBSE, UK

- **Building labelling principles and systems**
Hendrik Voll, Tallinn University of Technology, Estonia
- **OPEN HOUSE - Benchmarking and mainstreaming building sustainability in the EU**
Holger Wallbaum, ETH Zurich, Switzerland
- **Green building thinking in space management - case Nordea**
Juha Olkinuora, Nordea, Finland
- **Low2No - implementation of sustainable principles after design competition**
Vasilis Maroulas, ARUP Consulting, UK
- **Green refurbishments in Sweden**
Åsa Wahlström, CIT Energy Management AB, Sweden

12.30 – 13.30 *Lunch*

13.30 – 15.30

Technical plenary session 7: Does building labelling lead to zero energy buildings?

Chair: Maija Virta, FINVAC, Finland

- **User perspective: Does building labelling lead to better user satisfaction**
Atze Boerstra, the Netherlands
- **Building owner's perspective**
Frank Hovorka, France
- **Developer's perspective**
Jonas Gräslund, Skanska, Sweden
- **Designer's perspective**
Teet Tark, Hevac OÜ; EKVU, Estonia
- **Financial perspective**
Juerg R. Bernet, EURO Institute of Real Estate Management, Germany

15.30 – 16.00 *Coffee break*

16.00 – 17.00

Conference summary and closing

Chair: Francis Allard, AICFV, France

- **Conference summary**
Jarek Kurnitski, EKVÜ, Estonia
- **Student competition – presentations and awards**
Karel Kabele, Chair of REHVA Education committee, Czech Republic
- **Presentation by winner**
- **Young Scientist Awards**
Francis Allard, AICFV, France
- **Invitations to REHVA Annual Meeting 2012 in Timisoara (Romania)**
Ioan Silviu Dobosi, REHVA
- **Clima 2013 in Prague (Czech Republic)**
Karel Kabele, Chair of REHVA Education committee, Czech Republic

The REHVA Conference and 55th Annual Meeting is organized in cooperation with the Estonian Society of Heating and Ventilation Engineers (EKVÜ) in Meriton Grand Conference & Spa Hotel in downtown Tallinn just 5 minutes walk from famous old Hansa town.

If you are interested in recent development in net zero energy buildings and building labelling, then you should attend the REHVA Conference and Annual Meeting in Tallinn. The conference brings together an international group of researchers, professionals and practitioners and who routinely improve the energy efficiency, operating costs, and environmental impacts of buildings. Speakers at the conference are top experts of their field representing European Commission and other important organisations and Member states of the European Union.

Registration and information

Visit <http://www.ekvy.ee/rehvaam2011>

For further assistance please contact:

rehva.am2011@ekvy.ee

Programme Committee

Olli Seppänen, REHVA (chair)

Tiit Kerem, EKVU, Estonian HVAC Association

Maija Virta, Finnish Green Building Council

Hendrik Voll, Tallinn University of Technology



REHVA is the leading professional organization in Europe, dedicated to the improvement of health, comfort and energy efficiency in all buildings and communities. It encourages the development and application of both energy conservation and renewable energy sources. REHVA, established in 1963, connects European professionals in the area of building engineering services (heating, ventilating and air-conditioning for energy efficient healthy buildings) and **representing more than 100 000 engineers from 26 European countries**. REHVA's main activity is to develop and disseminate economical, energy efficient and healthy technology for mechanical services of buildings.

More information on www.rehva.eu

Contact information: info@rehva.eu

