

# Congress Programme e-nova 2011, 24<sup>th</sup>/25<sup>th</sup> November 2011

## Thursday 24<sup>th</sup> November 2011

09:00-09:30	<b>Accreditation</b> (Foyer Main Building)
09:30	<b>Welcome Note</b> (HS 1)
afterwards	<b>Key Note</b> (HS 1) <b>Role of the Building Sector in Context with the Challenges of the Energy Sector in Europe;</b> <i>Waltraud Schmid; Executive Agency for Competitiveness and Innovation; EU</i>
<b>Expectations to the House of the Future</b> (HS1 - Simultaneous Translation, Chair: Ragoßnig)	
10:00-10:20	Smart Grids - Buildings in Smart Grids; <i>Michael Hübner; BMVIT; A</i>
10:20-10:40	Current Results of the R&D-Programme "House of the Future Plus"; <i>Michael Paula; BMVIT; A</i>
10:40-11:00	Lowest-Energy Houses, Zero-Energy Houses, Plus-Energy Houses - Definitions, Challenges, Monitoring Results; <i>Werner Stutterecker; FTP GmbH; A</i>
11:00-11:15	Discussion
11:15-11:45	<b>Coffee Break, Poster- and Company Exhibition</b> (HS 2)
<b>Energy Storage</b> (HS1 - Simultaneous Translation, Chair: Paula)	
11:45-12:05	Effects of Short Period Energy Storage Potential of Thermal Active Building Elements on the Operation of Heat Pumps; <i>Christian Heschl; Morteza Fesharaki; Christian Lehner; University of Applied Sciences - Fachhochschulstudiengänge Burgenland Ges.m.b.H.; A</i>
12:05-12:25	Heat (Long Term) Storage made by FBE - Development and Overview; <i>Jürgen Bühl; TU Ilmenau; D</i>
12:25-12:45	Decentralized Energy Storage with the Fronius Energy Cell; <i>Ewald Wahlmüller; Fronius GmbH; A</i>
12:45-13:00	Discussion
13:00-14:30	<b>Lunch</b> (HS 2)

### Parallelsessions

<b>Planning- and Evaluation Tools 1</b> (HS1 - Simultaneous Translation, Chair: Wartha)		<b>Buildings in Smart Grids 1</b> (HS3 - Englisch, no Translation, Chair: Brugger)	
14:30-14:50	Bauoptimizer - Software Tool for Energy- and Cost-Effective Planning Approval; <i>Paul Track, Richard Woschitz; RWT + ZT GmbH; A</i>	14:30-14:50	ThinkHome;  <i>Wolfgang Kastner; Mario Kofler; TU Wien; A</i>
14:50-15:10	Build2Zero; <i>Ernst Blümel; University of Applied Sciences - Fachhochschulstudiengänge Burgenland Ges.m.b.H.; A</i>	14:50-15:10	ICT for Green Homes;  <i>Peter Caldera; Lantiq GmbH; A</i>
15:10-15:30	Cost-Benefit-Tool – Building Evaluation as Instrument for Illustration of individual Benefit; <i>Susanne Supper; ÖGUT; A</i>	15:10-15:30	Implementation of a Stochastic Based Energy Management System at the Pinkafeld Campus; <i>Markus Groissböck; Michael Stadler; CET Austria; A</i>
15:30-15:50	Life Cycle Cost Data - Identification Numbers for economic Sustainability; <i>Helmut Flögl; Monika Ilg; Donau-Universität Krems; A</i>	15:30-15:50	Worst-Case Estimations for Thermal Building Performance; <i>Gerhard Zucker; Reiner Braun; AIT Energy Department; A</i>
15:50-16:05	Discussion	15:50-16:05	Discussion
16:05-16:45 <b>Coffee Break, Poster- and Company Exhibition (HS 2)</b>			
<b>Planning- and Evaluation Tools 2</b> (HS1 - Simultaneous Translation, Chair: XXXX)		<b>Buildings in Smart Grids 2</b> (HS3 - Englisch, no Translation, Chair: Schöffner)	
16:45-17:05	Building Certification as Chance for Innovative Systems of Technical Building Equipment; <i>Michael Haugeteder; ATP Sustain GmbH; A</i>	16:45-17:05	AC/DC Microgrid@Home;  <i>Hermann Brugger; Siemens AG Österreich; A</i>
17:05-17:25	Tool for Life Cycle Cost Oriented Quality Improvement of Buildings;  <i>Herbert C. Leindecker; FH OÖ Studienbetriebs GmbH; A</i>	17:05-17:25	Smart Consumption in On-Road Test;  <i>Lous von Mandach; Joachim Kiauk; Siemens AG; CH</i>
17:25-17:45	TQB- and klima:aktiv Evaluation of Aspern IQ - Discussion of the Role of Building Certification Systems based on an Example of Best Practice for Plus-Energy Buildings; <i>Susanne Geissler; Felix Heisinger; ÖGNB; A</i>	17:25-17:45	Energy Storage Systems in DGR Based Microgrid;  <i>Nawaraj Sharma; Bhola Jha; KL University; IN</i>
17:45-18:05	Does Building Certification Pay Off?;  <i>Philipp Kaufmann; ÖGNI; A</i>	17:45-18:05	Energy Efficiency as Advantage in Competition - Reality or Vision?;  <i>Werner Schöffner; Dewetron GmbH; A</i>
18:05-18:20	Discussion	18:05-18:20	Discussion
19:00 <b>Congress Dinner (Place to be Announced)</b>			

## Friday 25<sup>th</sup> November 2011

### Energy Efficiency 1

(HS1 - Simultaneous Translation, Chair: Heschl)

9:00-9:20	Thermal Comfort and Energy Efficiency in Buildings; <i>Zoltán Maqvar; REHVA; HU</i>
9:20-9:40	Unsteady Simulation of Parameters of Thermal Comfort in Summer Time by Means of CFD; <i>Ines Lindmeier; Christian Heschl; FTP GmbH; A</i>
9:40-10:00	Renewable Cooling Using Indirect Evaporative Cooling in Air-Conditioning-Systems; <i>Christian Bremer; Walter Meier GmbH; DE</i>
10:00-10:20	Renewable Heating and Cooling in a Multifunctional Building; <i>Georg Häring; Christoph Trinkl; Hochschule Ingolstadt; DE</i>
10:20-10:35	Discussion

10:35-11:05 **Coffee Break, Poster- and Company Exhibition (HS 2)**

### Energy Efficiency 2

(HS1 - Simultaneous Translation, Chair: Petras)

11:05-11:25	Design Approach for the Optimal Model of an Energy-Efficient Timber Building with a Focus on the Sout-Oriented Window Area; <i>Vesna Žegarac Leskovar; Miroslav Premrov; University of Maribor; SI</i>
11:25-11:45	Linked Simulation Model for Energetic and Lighting Evaluation of Facade Concepts for Daylighting and Artificial Lighting of Rooms; <i>Martin Hauer; Daniel Neyer; Universität Innsbruck; A</i>
11:45-12:05	In the Triangle of Conflicting Priorities Between Energy Efficiency and Daylighting Architecture; <i>Heinz Hackl; Velux Austria GmbH; A</i>
12:05.12:25	Daylighting Effects for Improved Life-Cycle; <i>Shahram Nassehzadeh Tabriz; Shahin Hassani Mehr; Islamic Azad University; IR</i>
12:25-12:40	Discussion

12:40-13:10 **Coffee Break, Poster- and Company Exhibition (HS 2)**

### Energy Efficiency 3

(HS1 - Simultaneous Translation, Chair: Blümel)

13:10-13:30	Energy Efficiency by Innovative Valve Technology; <i>Reto Hobi; Belimo Automation AG; CH</i>
13:30-13:50	Thermocollect, the Solar-Active Energy Facade: Efficient Building Implementation by Direct Utilisation of Solar Energy; <i>Rudolf Schwarzmayr; Thermocollect; A</i>
13:50-14:10	Numerical Prediction of the Turbulent Flow Over a Flat-Roof Building for VAWT Application; <i>Marco Raciti Castelli; Ernesto Benini; University of Padua; IT</i>
14:10-14:25	Discussion

14:25 **Closing of the Congress**

afterwards **Snack (HS 2)**

## Poster & Proceedings

LCC-Calculations in the early Planning Stage;

*Ernst Heiduk; FH Kärnten; A*

Spectrum of Solar Architecture in Research and Practise;

*Mariam Djallili; Martin Treberspurg; BOKU; A*

Smart Movable Building Resuscitating Iranian Sustainable Architecture;

*Nasibeh Faghhi Mirzaei; Mohamad Ali; Mohsen Vafamehr; Taali Higher Education; IR*

Tool for LCC and LCA Optimization of Buildings in the Planning Phase;

*Tobias Schrag; FH Kufstein; A*

Energy Consumption & Greenhouse Gas Emissions of Super-Markets;

*Gerald Hofer; Hauser GmbH; A*

Results from the Innovation Award Energy Storage Concrete 2010;

*Gerhard Hofer; Frank Huber; e7 Energie Markt Analyse GmbH; A*

Building Control in the Course of Energy Efficiency Measures;

*Norbert Wacek; Cofely; A*

Application of CFD for the Optimization of Biomass - Grate - Firings;

*Peter Klanatsky; Christian Heschl; FTP GmbH; A*

Tech Building Consulting;

*Wilhelm Alexander Pakisch; pgg blueberg control GmbH; A*

Possibilities and Constraints of Rational Energy Conscious Building Retrofit;

*Michael Baumann; Uni Pécs; HU*

Best Practice "Technologiezentrum Aspern IQ";

*Felix Heisinger; IBO; A*

Green Construction with Reactive Magnesia: Initial Carbonation Studies;

*Cise Unluer; Abir Al-Tabbaa; University of Cambridge; UK*

Build2Zero - Electrical Energy Efficiency;

*Georg Geissegger; Markus Puchegger; Fachhochschulstudiengänge Burgenland Ges.m.b.H.; A*

The Procedure of Providing Appropriate Daylight in Underground Buildings;

Toward Net-Zero Energy Buildings;

*Nazanin Moazzen Ferdos; Touraj Ashrafiyan Bonab; Fariborz Mahdavi Tabatabaei; Young Researchers Club of Tabriz; IR*

Dynamic Architecture and Renewable Energy Gain by Buildings;

*Touraj Ashrafiyan Bonab; Nazanin Moazzen Ferdos; Mascoud Haghlesan; Young Researchers Club of Tabriz; IR*

<b>Poster</b>
Build2Zero - Solar Cooling - Planningtool and Applications; <i>Werner Stutterecker; FTP GmbH; A</i>
Influence of Using Photovoltaic Systems to Light Passages on Energy Saving in Shahriar Boulevard of Tabriz; <i>Nikous Jahvadi Eshkalak; Sanam Taghizadeh Oskouei; Touraj Ashrafi; Islamic Azad University; IR</i>
Ways to Increase Market Penetration of Small Wind Turbines; <i>Peter Steirer; Fachhochschulstudiengänge Burgenland Ges.m.b.H.; A</i>
Influence of Indoor Environmental Quality on Occupant Comfort and Health; <i>Nazanin Moazzen Ferdos; Touraj Ahrafi; Masoud Haghlesan; Young Researchers Club of Tabriz; IR</i>
Traditional Sustainable Building in Hot & Dry Region of Iran; <i>Ahadollah A'zami; Vahid Sheikhloei; ABSTRACT NOCH NICHT ÜBERMITTELT; IR</i>
Traditional Methods of Encountering with Solar Energy in Iran's Traditional Architecture; <i>Touraj Ashrafi; Nazanin Moazzen Ferdos; Fariborz Mahdavi Tabatabaei; Young Researchers Club of Tabriz; IR</i>
Tool for the Assessment of Buildings in the Early Planning Stage; <i>Franz Inschlag; Fachhochschulstudiengänge Burgenland Ges.m.b.H.; A</i>