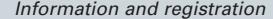
The framework conditions for the electrical power supply have changed fundamentally. Legislators liberalised the energy market, fostered renewable energy sources and announced a battle against rising emissions. Distributed power generation is one of the possible answers to these changes and at the same time raises new questions. New technological and organisational standards emerge related to the complexity of the electrical power supply system. Fundamental questions concerning the electricity system itself like grid management, capacity planning, stability, protection strategies as well as the power quality and at the same time optimisation of energy supply and demand come to the fore. The borders between producers and consumers become more and more indistinct. New business models have to be developed.

The RTD programme "Energy Systems of Tomorrow" of the Federal Ministry of Transport, Innovation and Technology has got one of its main focuses dedicated to the research topics distributed generation and smart grids. The 1st International Symposium "Distributed Generation and Smart Grids" addresses experts from different fields like electricity production, grids and environment. Prominent representatives from politics, industry and the research community are invited to discuss possible solutions concerning distributed generation and grids. Taking the background of international developments into account, the research topics in question shall be further developed and concretised.

The event is based on findings from the "Energy Systems of Tomorrow" programme and presents a contribution to the "Energie 2050" strategy process of the BMVIT. (For further information see also www.ENERGIESYSTEMEderZukunft.at, www.e2050.at)





arsenal research

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Symposium fees EUR 480.00 before 25th Sept. 2006 EUR 600.00 after 25th Sept. 2006 EUR 39.00 for students

Symposium languages:

German and English with simultaneous interpretation

Co-operation partners

Verband der Elektrizitätsunternehmen Österreichs Österreichischer Verband für Elektrotechnik



## Location

TECHbase Vienna
Giefinggasse 2 / Siemensstraße 103
A-1210 Vienna
AUSTRIA

### Date

18<sup>th</sup> and 19<sup>th</sup> October 2006

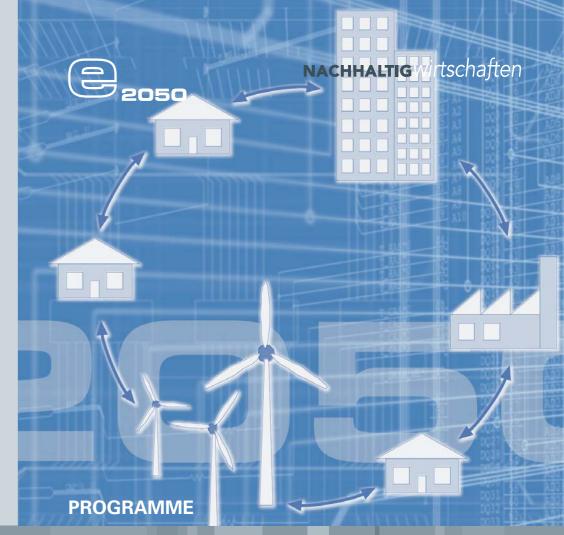


# ENERGIE 2050- An Initiative by the BMVIT

Organiser: Division of Energy and Environmental Technologies Head of Division: DI Michael Paula A-1010 Vienna, Renngasse 5

www.NachhaltigWirtschaften.at





1<sup>st</sup> International Symposium on

# Distributed Generation and Smart Grids

18<sup>th</sup> and 19<sup>th</sup> October 2006 TECHbase Vienna







# Symposium programme

followed by **evening buffet** 





# Wednesday, 18th October 2006

8:15 am	Registration
	Chair: Hubert Fechner, arsenal research
9:00 am	Opening Anton Plimon, Managing Director of arsenal research Eduard Mainoni, State Secretary for Technology, Federal Ministry of Transport, Innovation and Technology Heinz Kaupa, Verband der Elektrizitätsunternehmen Österreichs (VEÖ) (Austrian Association of Electricity Companies)
9:45 am	Decentralised generation in an international context
	<b>ENARD</b> and other activities of the International Energy Agency (IEA) Samantha Ölz, International Energy Agency
	EU technology platform "Smart Grids" Gerald Vones, Federal Ministry of Economics and Labour
	Challenges and advantages arising from decentralised generation Goran Strbac, Imperial College London, DTI Centre for Distributed Generation and Sustainable Electrical Energy
	Relevant aspects for Europe from a US-American viewpoint Chris Marnay, Berkeley Laboratories, CA
11.40 am	Break
12.00 am	Decentralised generation in Austria
	Framework conditions for research and development in Austria Michael Paula, Federal Ministry of Transport, Innovation and Technology, Division of Energy and Environmental Technologies
	<b>Standardisation and regulation of DG in Europe and Austria</b> Roland Bründlinger, arsenal research
	Opportunities and challenges of distributed generation for Austria Hubert Fechner, arsenal research
1:15 pm	Lunch break

2.45 pm	Decentralised generation as seen by plant operators Interview Session Chair: Klaus Fischer, Bohmann-Verlag publishers
	Stefan Hantsch, IG Windkraft Österreich (Austrian Wind Energy Association) Gerhard Fallent, Photovoltaic Austria Federal Association Bernhard Pelinka, European Small Hydropower Association Franz Kirchmeyr, ARGE Kompost & Biogas Österreich (Austria's Compost & Biogas Working Group)
	Günther Herdin, GE Jenbacher AG
3:40 pm	Break
	Chair: Andreas Lugmaier, arsenal research
4:00 pm	Decentralised generation as seen by grid operators
	Experiences of Austrian grid operators with DG Andreas Abart, Energie AG Oberösterreich Christian Kitz, Vorarlberger Kraftwerke AG Rudolf Pointner, Salzburg AG
	Energy management in the low-voltage grid: conclusions for distribution grid operators gained from the "Am Steinweg" ecological estate Britta Buchholz, MVV Energie AG
	Experiences of Stadtwerke Karlsruhe Norbert Lewald, Stadtwerke Karlsruhe
	POMS – the load management system Christof Wittwer, Fraunhofer Institut Solare Energiesysteme
	Cell controller pilot project (CCPP) and aspects of decentralised energy supply in Denmark Carsten Strunge, Energinet DK
6:00 pm	Champagne reception
7:00 pm	<b>Special guest lecture</b> Jürgen Schmid, Head of ISET (Institut für Solare Energieversorgungstechnik) in Kassel, Germany
	Introductory statements: Gerd Schauer, Verbund
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# Thursday, 19th October 2006

Chair: Michael Hübner,

Federal Ministry of Transport, Innovation and Technology

9:00 am Austrian research highlights from the "Energy Systems of Tomorrow" programme line

EE+PQ, Helfried Brunner, arsenal research

DG DemoNetz, Andreas Lugmaier, arsenal research

IRON, Friederich Kupzog, Vienna University of Technology, Institute of

Computer Technology

**Autonomous regenerative energy systems,** Günther Brauner, Vienna University of Technology, Institute of Power Systems and Energy Economics

Micro turbine, Helmut Nedomlel, Wels Strom GmbH

10:40 am Break

11:00 am Development framework for decentralised generation in Austria

Regulatory aspects of decentralised generation

Tahir Kapetanovic, Energie Control GmbH

What we wish for decentralised generation

Hans Auer, Vienna University of Technology, Energy Economics Groupp

12:00 am Lunch break

1:30 pm Innovation impulses for the Austrian economy

Christoph Panhuber, Fronius International GmbH

Sergej Kalaschnikow, VATECH ELIN EBG Elektronik GmbH & Co

Heinrich Wilk, Energie AG Oberösterreich

Johann Hell, Nesha Danilovic, VATECH Hydro GmbH & Co

3:00 pm Round table – visions for the future of decentralised generation

Norbert Lewald, Stadtwerke Karlsruhe

Hans Auer, Vienna University of Technology, Energy Economics Group

Walter Tenschert, Energie AG Oberösterreich Werner Friesenecker, Vorarlberger Kraftwerke AG

Tahir Kapetanovic, Energie Control GmbH

Karl Derler, Eurelectric

Chair and summary:

Hubert Fechner, arsenal research

4:30 pm End of symposium