



bm 

Federal Ministry
for Transport,
Innovation and Technology



Programme

Distributed Electricity Generation and Smart Grids

17th – 18th October 2007
TECHbase Vienna





Distributed generation is one of the answers to the challenges for the energy system but also poses new questions. Completely new technical and organisational requirements occur. Basic system issues like network management, capacity planning, stability, protection strategies and quality of supply as well as optimisation of energy supply and demand massively come to the fore. The borders between energy producers and costumers increasingly blur. New business models need to be developed.

In the framework of the strategy finding process ENERGY 2050 of the Austrian Federal Ministry of Transport, Innovation and Technology the research area "Energy Systems and Networks" should be enhanced and concretised. This year's "2nd International Symposium for Distributed Electricity Generation and Smart Grids" is focused on practical research in the field of future network operation and the associated fields of information and communication technology, metering and network simulation. Within the scope of the symposium international experiences and expectations for future developments will be presented and discussed with an audience of experts from industry, research and development as well as from administration and authorities.

Venue

**TECHbase Vienna
1210 Vienna
Giefinggasse 2/Siemensstraße 103**

Date

17th and 18th October 2007

www.e2050.at

Conference Programme

2nd International Symposium

Distributed Electricity Generation and Smart Grids

Wednesday, October 17th

Chairman: Hubert Fechner, arsenal research

09:30 REGISTRATION

10:00 Addresses of Welcome

Anton Plimon, General Manager, arsenal research
State Secretary Christa Kranzl, Federal Ministry of Transport, Innovation and Technology (not confirmed)
Barbara Schmidt, Secretary General, Austrian Electro Technical Association
Peter Reichel, Secretary General, Association of Austrian Electricity Companies

11:00 Opening Session: Network Operation of the Future – International Context

- > Future Network Operation "Active Networks"
Graham Ault, University Strathclyde
- > Current European Developments
Gerald Vones, Federal Ministry of Economics and Labor
- > Technology Platform „Smart Grids“ Working Group Network Operation – Results
Tahir Kapetanovic, E-Control
- > IEA – Electricity Networks Analysis, Research and Development
Albrecht Reuter, IRM

12:30 LUNCH BREAK

13:30 Session 1: Austrian Main Research Electricity Networks

- > New Incentives for Austrian Research in Electricity Systems and Networks
Michael Hübner, Federal Ministry of Transport, Innovation and Technology
- > Selected Results of the Project DG DemoNet- Concept
Andreas Lugmaier, arsenal research
- > Stabilisation of Electricity Networks with a Combination of Biogas Units
Reinhard Padinger, Joanneum Research
- > Virtual Eco-Power Plant
Carlo Obersteiner, EEG TU Wien

15:00 BREAK

15:30 Session 2: Smart Distribution Networks – International Research Projects

- > Innovation & Integration – the UK's Approach to DG
Gareth Evans, OFGEM
- > Large Scale PV Demonstration Projects in Japan
Nobuyoshi Inoue, NEDO
- > Progress in DG System Integration and Research in Denmark
John Elli Nielsen, DTU – Technical University of Denmark

17:00 BREAK

17:30 Session 3: Future Metering in Distribution Grids and the Possible Contribution to Monitoring in Low Voltage Grids

- > Electronic Meters as Area-Wide Indicator for the Voltage Band in Local Area Networks
Andreas Abart, Energie AG Oberösterreich
- > Price Signals for Electricity – Efficient Load Control by Variable Tariffs
Hellmuth Frey, EnBW
- > Smart Metering – Expectations and Possibilities from a Manufacturers Point of View
Walter Scheiber, Actaris

19:00 DINNER

Thursday, October 18th

Chairman:

Michael Hübner Federal Ministry of Transport, Innovation and Technology

08:30 Session 4: Active Networks in University and Non-University Institutes

- > Energybase and the SIMTECH-Laboratory
Christoph Mayr, arsenal research
- > Network of Excellence DER Lab – Distributed Energy Resources Laboratory
Roland Bründlinger, arsenal research
- > Safety in Active Distribution Networks
Lothar Fickert, TU Graz

10:00 BREAK

10:30 Session 5: Simulation of Distribution Networks – A Change from Network Planning to a Multifunctional Network Operation Tool

- > Requirements for the Simulation of Active Networks
Helfried Brunner, arsenal research
- > Simulation of Distribution Networks with a High Share of Distributed Generation
Flavio Fernandez, DlgSILENT
- > Overview of simulation tools to study distribution system networks and practical case studies in Canada
Atef S. Morched, Cymne T&D International

12:00 LUNCH BREACH + VISIT OF THE „ENERGYBASE“

13:00 Session 6: Information- and Communication Technology in Distribution Grids – Area of Conflict between Feasibility, Costs and Reliability

- > Why Intelligent Networks?
Friederich Kupzog, ICT TU Wien
- > Communication as Requirement for "Smart Distribution"
Bernd Buchholz, Siemens
- > Experiences with and Expectations in Communication Technologies in Distribution Network Operation from DNO's Point of View
Karl Derler, Linz Strom Netz GmbH

14:30 BREAK

**15:00 Round Table:
Future Network Operation the R&D Framework for Network Operators**

Thomas Rieder, Salzburg Netz AG; Karl Derler, Linz Strom Netz GmbH;
Heinz Kaupa, Verbund APG (enquired); Günther Brauner, TU Wien;
Walter Bolz, E-Control (enquired); Stefan Schleicher, Österreichisches Institut für Wirtschaftsforschung - Experte Klima und Energiefond (enquired)

Chairman: Hubert Fechner, arsenal research

16:30 Summary and Outlook

Hubert Fechner, arsenal research



Information and Registration:

www.arsenal.ac.at/dgtagung

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Conference Fee:
EUR 480,- excl. VAT (until 8th October 2007)
EUR 600,- excl. VAT (from 9th October 2007)
EUR 39,- excl. VAT for students

Conference Fee excl. VAT, incl. Conference Proceedings, Lunch and Conference Dinner

Further Informationen: www.e2050.at

Co-operation partner:

Association of Austrian Electricity Companies

Austrian Electro Technical Association

Association of Electrical and Electronic Industries



ENERGIE 2050 - An Initiative by the BMVIT

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