

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

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, DIgSILENT
- > 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:

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A Company of Austrian Research Centers

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

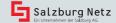
Austrian Electro Technical Association

Association of Electrical and Electronic Industries









ENERGIE 2050 - An Initiative by the BMVIT

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