

**bmwft**

Federal Ministry  
for Transport,  
Innovation and Technology



**Programme**

# SMART GRIDS WEEK | LINZ 2011

May, 24<sup>th</sup> to 27<sup>th</sup>, 2011

Power Tower, Energie AG Oberösterreich  
Linz / Austria



## Introduction Energie AG Oberösterreich

Welcome to the Power Tower!

We are pleased to welcome you to Smart Grids Week 2011 at the Power Tower.

The use of renewable energy requires the expansion of accumulators and greater load flexibility. Increasingly localised, widely distributed generating plants, e-mobility and modified load characteristics are placing increasing demands on our networks. Smart Grid solutions will in future limit the expansion costs for networks and accumulators. Innovation is important to us. We are currently creating the basis for future Smart Grid systems by rolling out a powerful smart metering system.

The subsidy programme of the Austrian Climate Fund allows us, together with several partners, to develop new solutions and to implement these in practice. We believe that we are on the verge of an exciting new development, which Smart Grids week has made an important contribution to over the years.

We hope you enjoy exchanging valuable information and experiences and wish you a pleasant stay in Linz.



*Energie AG Oberösterreich, Austria  
Werner Steinecker, Member of the Board  
Leo Windtner, Director General  
Roland Pumberger, Member of the Board  
(f.r.t.l.)*

The **Smart Grids Week Linz 2011** also aims to promote and strengthen the process that has got off to a successful start in Austria and help to link up with international developments.

This year the focus is on

- > Smart grid development in the United States and Europe
- > Smart interaction between distribution and transmission networks
- > Smart metering from the smart grid perspective
- > Integration of electric mobility

## Introduction Doris Bures, Federal Minister

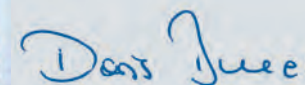
Dear Sir or Madam!

We are all well aware of the fact that we will not be able to achieve our energy and climate policy goals with today's grids. They cannot meet the demands of smart, sustainable energy management.

However, new, multi-faceted management is just what we need if we are to give Austria a renewable, energy-, and climate-friendly future. We have already taken many important steps in the right direction. Having shown commitment and tackled the issue at any early stage, we have succeeded in positioning Austria as an innovation leader in Europe.

As I see it, energy and technology policy must be aimed at developing and implementing strategies together with companies, researchers, and the government to achieve a secure, climate-friendly, and affordable energy supply.

I am delighted that Energie AG Oberösterreich is taking part in this year's conference as a cooperation partner. Finally, I wish to thank all the initiators and cooperation partners, attendees, and the companies that have implemented demonstration projects and created model regions for testing the new solutions in the field.



*Doris Bures  
Federal Minister of Transport, Innovation and Technology, Austria*

Tuesday, May 24<sup>th</sup>, 2011

## D-A-CH Cooperation Meeting

As a transnational platform for knowledge exchange and cooperation in the fields Smart Grids and Electromobility, the Smart Grids D-A-CH cooperation will again use the Smart Grids Week to move forward. Together with the participants, the Leaders of the three Task Forces Standardization, Business Models and Data will push the preparation and implementation of the work program. Separate rooms will be available for this purpose. The agenda and the group of participants will be shaped individually by the Task Force Leaders. The Steering Committee will also meet and is looking forward to the presentation of progresses by the Task Forces. The agenda will be developed by the Coordinators and will be provided to the participants.

Participation is possible by invitation of the project team.  
If interested, kindly contact [Leyla.Gueran@fit.fichtner.de](mailto:Leyla.Gueran@fit.fichtner.de)

## Workshop – V2G-Strategies: Integration of Electric Vehicles in the Austrian Energy System

The project V2G-Strategies, coordinated by the Vienna University of Technology (Energy Economics Group), analyses in cooperation with the AIT and other partners the technical, economic and ecological impacts for Austria's energy system due to a high e-mobility penetration. The options of system related e-mobility integration in urban and rural case studies are analyzed developing active grid integration as well as new business models (e.g. loading strategies, balancing services) for Grid to Vehicle and Vehicle to Grid concepts. As key results a tailor made guideline and action plan for Austrian decision makers will be derived.

The project will be finished by October 2012. Therefore the main goal of the workshop is to discuss the chosen methodology and database of the project.

Participation is possible by invitation of the project team.  
If interested, kindly contact [rezania@eeg.tuwien.ac.at](mailto:rezania@eeg.tuwien.ac.at)

## Project Forum – Smart Energy

The Climate and Energy Fund is inviting people to the project forum as part of Smart Grids Week 2011.

Two main themes will be covered in the project forum this year: on the one hand, the role of smart meters in climate protection will be discussed. The discussion will focus on the conflict between the voluntary contribution of the individual, informed end user compared with the uninvolved consumer who prefers to leave energy saving to a clever energy manager, so a technical solution.

On the other hand, the role of smart grids for the current programme of the Climate and Energy Fund "Smart Energy Demo - FIT for SET" will also be a discussed theme. The programme aims to initiate major demonstration and pilot projects in which existing or already largely well-developed technologies and systems are integrated into innovative interacting overall systems. For smart energy/smart city projects the intelligent energy networks play a key role because the future does not lie in the development of individual technologies but rather in the interaction of the actors and the merging of individual systems into a "system of systems".

In the project forum, results from already running projects are presented and discussed with the experts from the project teams.

### 14.15 Opening

Werner Steinecker, Member of the Board, Energie AG Oberösterreich  
Elvira Lutter, Climate- and Energyfonds, Austria

### Smart Meter for Climate Protection?

### 15.30 COFFEE BREAK

### 16.00 Smart Grids for Smart Energy!

### 20.00 Ars Electronica Center – Deep Space (3d cinema) followed by a dinner in the CUBUS restaurant (exclusively for the participants of the workshops) at the invitation of Energie AG Oberösterreich

Chair: Hemma Bieser, Managing Director, *avantsmart e. U.*, Austria

Online-Application: <https://www.netconf.org/smartgridsweek/>

Further Information: [www.ENERGIESYSTEMEderZukunft.at/smartgridsweek](http://www.ENERGIESYSTEMEderZukunft.at/smartgridsweek)

Participation in the Project Forum is free.

Wednesday, May 25<sup>th</sup>, 2011

**08.00 Registration**

**09.00 Opening**

Ingolf Schädler, Deputy Director General, Innovation und Telecommunications,  
Federal Ministry for Transport, Innovation and Technology (BMVIT), Austria

Leo Windtner, Director General, Energie AG Oberösterreich, Austria

Josef Pühringer, Governor of Upper Austria

**NATIONAL AND INTERNATIONAL STRATEGIES**

Chair: Michael Hübner, Federal Ministry for Transport, Innovation and Technology (BMVIT), Austria

**09.45 Austrian Smart Grid Strategies**

Michael Paula, Head of Division Energy and Environment Technologies,  
Federal Ministry for Transport, Innovation and Technology (BMVIT), Austria

**10.00 Smart Energy - Sponsorship of Smart Grids Innovations**

Theresia Vogel, Managing Director, Klima- und Energiefonds, Austria

**10.15 The Smart Grids Activities of the International Energy Agency**

Hugo Chandler, Policy Analyst, Renewable Energy Unit, International Energy Agency (IEA)

**10.35 Austria's Activities at IEA ENARD**

Helfried Brunner, Austrian Institute of Technology (AIT), Austria

**10.45 COFFEE BREAK**

**11.15 International Initiatives and Networks (Clean Energy Ministerial, ISGAN, and others)**

U.S. Department of Energy, U.S.A.

**11.40 Smart Grids for More Renewables, CO2 Reduction and Improved Efficiency**

Jens Brinckmann, Federal Ministry of Economics and Technology, Germany

**12.05 E-Energy and Smart Grids D-A-CH – Status and Vision**

Thomas Hagen, Managing Director, incowia GmbH, Germany

Alexander Küster, swissgrid AG, Switzerland

Michael Strebl, Managing Director, Salzburg Netz, Austria

**12.30 Italy's Smart Grid Programmes and Projects**

Michele de Nigris, Director - Dpt T&D Technologies, RSE S.p.A, Italy

**13.00 LUNCH BREAK**

**14.30 Two Steps at Once: Smart Meters and Grid Automation – Centrally Planned**

Guido Bartels, Board Member and Former Chairman, GridWise Alliance, U.S.A.

**14.50 Standards, Framework for a National Interoperable and Secure Smart Grid**

Dean Prochaska, National Coordinator for Smart Grid Conformance,  
National Institute of Standards and Technology (NIST), U.S.A.

**15.10 Asian Perspective on Smart Grids**

Yonghun Jung, Counselor to the Ministry of Knowledge Economy,  
Republic of Korea, Vice President of ISGAN

**15.30 COFFEE BREAK**

**SMART GRIDS – IMPORTANT ELEMENT OF THE FUTURE ENERGY STRUCTURE**

Chair: Hans Auer, Senior Research Assistant, Energy Economics Group (EEG), Austria

**15.45 Smart Grids, Smart Regions and Smart Cities**

Brigitte Bach, Head of Energy Department, Austrian Institute of Technology (AIT), Austria

**16.10 The Role of Transmission and Distribution Grids in the Smart Grids Development**

Introduction:

Hans Auer, Senior Research Assistant, Energy Economics Group (EEG), Austria

Impulsestatements:

Klaus Kaschnitz, VERBUND - Austrian Power Grid (APG), Austria

Mathias Schaffer, Head of Energy Innovation, Energie Steiermark, Austria

Walter Tenschert, Managing Director, Energie AG Oberösterreich Netz,, Austria

Discussion

**18.00 END OF THE CONFERENCE DAY**

**19.00 GALA DINNER, Schlossmuseum Linz,  
at the invitation of Energie AG Oberösterreich**

Thursday, May 26<sup>th</sup>, 2011

## SMART METERING – FROM THE SMART GRIDS PERSPECTIVE

Chair: Helfried Brunner, Austrian Institute of Technology (AIT), Austria

### 09.00 The User Perspective in the Smart Grid – Experiences from Austrian Smart Meter Pilot Projects and Research

Cornelia Gerdenitsch, CURE; Andrea Kollmann, Johannes Kepler University Linz; Friederich Kupzog, TU Vienna; Sebastian Seebauer, University of Graz; Jürgen Suschek-Berger, IFZ-Graz; Slobodanka Tomic, FTW-Vienna  
Wolfgang Wimmer, ECODESIGN

### Smart-Metering-Products – The German and European Experiences

Harald Schäffler, Managing Director, EnCT – Research Group Energy- & Communication Technology, Germany

### Smart Metering – The Swiss Perspective

Cornel Rüede, Head of Department Data Management, swissgrid ag and Chairman of the Energy Data Committee, Association of Swiss Electricity Companies (VSE), Switzerland

### Smart Meter Consumption

Wolfgang Wimmer, Head of ECODESIGN, Vienna University of Technology, Austria

### Smart Meters – Key and Base for Smart Grids

Andreas Abart, Energie AG Oberösterreich, Austria

### 10.25 FIRST POWER SNAPSHOT – live: Network Analysis with AMIS

### 10.30 COFFEE BREAK

### 11.00 E-Mobility – Smart Meter Data Management, the EmporA Projekt

Eva Maria Plunger, Project Management emporA, VERBUND, Austria and Christian Exl, Bid Manager for Electric Mobility Solutions; Energy Sector, Siemens Austria

### Smart Meters, the View of the Austrian Regulator

Tahir Kapetanovic, Head of Electricity Department, E-Control GmbH, Austria

### Panel Discussion

#### SMART METERING – FROM THE SMART GRIDS PERSPECTIVE: Necessity or Luxury?

Tahir Kapetanovic, Head of Electricity Department, E-Control, Austria  
Eva Maria Plunger, Project Management emporA, VERBUND, Austria  
Johannes Stadler, Head of Business Development Energy, Alcatel Lucent Austria  
Monika Sturm, Siemens Austria  
E-Mobility Expert, Wien Energie, Austria

### 12.30 LUNCH BREAK

#### 13.10 Smart Meters & Smart Grids at Energie AG Oberösterreich

Horst Steinmüller, Energy Institute at the Johannes Kepler University of Linz, Austria

### 13.45 First POWER SNAPSHOT Result

## SMART GRIDS AS CHANCE FOR SUSTAINING INFRASTRUCTURE

Chair: Michael Kerbler, ORF / Ö1 - head of the radio series "Im Gespräch", Austria

### 14.00 Model- and Pioneer Regions

#### Region Vorarlberg

Werner Friesenecker, VKW-Netz, Austria

#### Model Region Salzburg

Thomas Rieder, Salzburg Netz, Austria

#### Pioneer Region Upper Austria

Walter Tenschert, Managing Director, Energie AG Oberösterreich Netz, Austria  
Karl Derler, Managing Director, LINZ STROM Netz and LINZ GAS Netz, Austria

#### Energy-Efficient Municipality Großschönau

Josef Bruckner, Managing Director, Sonnenplatz Großschönau, Austria

#### Energy Vision Murau

Kurt Woitischek, Managing Director, Utility Murau, Austria

### 15.15 PAUSE

### 15.45 Panel Discussion

#### SMART GRIDS AS CHANCE FOR SUSTAINING INFRASTRUCTURE

Erich Schwärzler, Member of the Government of Vorarlberg, Energy Affairs, Austria  
Rudolf Anschöber, Member of the Government of Upper Austria, Energy Affairs, Austria  
Wolfgang Dopf, Member of the Board, LINZ AG, Austria  
Michael Paula, Federal Ministry for Transport, Innovation and Technology, Austria  
Werner Steinecker, Member of the Board, Energie AG Oberösterreich, Austria  
Robert Tesch, Division Leader Energy Automation, Siemens, Austria  
Theresia Vogel, Managing Director, Climate and Energy Funds, Austria

### 17.00 "BMVIT-Smart Grids Award 2011"

### 17.30 END OF THE CONFERENCE DAY

### 17.45 Reception at the Power Tower at the Invitation of Energie AG Oberösterreich

### 19.30 Power Barometer – Smart Grids



Friday, May 27<sup>th</sup>, 2011

## AUSTRIAN SMART GRIDS STAKEHOLDER WORKING GROUPS – TECHNOLOGY PLATFORM SMART GRIDS AUSTRIA

Chair: Kurt Schauer, Wallner & Schauer, Austria

### 09.00 Opening

Michael Wiesmüller and Michael Hübner, Federal Ministry for Transport, Innovation and Technology (BMVIT), Austria

### 09.05 Internet of Energy for Electric Mobility

Herbert Pairitsch, Infineon Technologies Austria AG

### 09.15 Activities and Targets of the Austrian Smart Grids Stakeholder Working Groups

Andreas Lugmaier, Coordinator Smart Grids Austria, and Leaders of the Smart Grids Austria Working Groups

### 09.50 IKT in Electricity Networks – From the remote control technology to the Smart Grid

Walter Tenschert, Managing Director, Energie AG Oberösterreich Netz, Austria

### 10.10 Energy Meets ICT

Helmut Ludwar, CTO, IBM, Austria

### 10.30 Smart Grid from the Perspective of a Service-Provider

T-Mobile Austria / T-Systems Austria

### 10.50 BREAK

### 11.00 Discussion in Groups

#### 1) Who Are the Clients? What do they want?

Discussions on the benefits and the profiteers of Smart Grids usually end at the washing machine of household customers. The aim of the workshop is to sharpen the outside view on new players and markets, away from the technical point of view.

#### 2) Smart Grid Meets ICT

The communication between components is an essential prerequisite for implementing the vision of Smart Grid. Key aspects are reliability, security and data privacy. The fusion of the world of energy and communication is a challenge, there are obstacles in technology and in the field of standardization to overcome, the potential and opportunities are immense, however.

### 3) Security and Privacy in the Intelligent Network

Large amounts of sensitive data, high-grade networking and millions of access points create a completely new situation in the electricity networks of the future. Security against cyber crime and the safeguard of the privacy of electricity customers are central concerns of the e-business. The discussion will serve to exchange information and thus lead to the optimization of the concepts and strategies for Smart Grids.

### 12.30 Presentation of the Results

### 13.00 LUNCH

## EXCURSIONS

### 13.30 Solarcampus Eberstalzell Power Tower

## INFORMATION

### Poster Session

Project manager of research projects supported by the Federal Ministry for Transport, Innovation and Technology within the programs "Energy Systems of the Future", "New Energies 2020" of the Climate and Energy Fund and of research projects which may fit into the theme of "smart grids" are invited to present their project results, information or publications in the format of scientific posters. At the poster exhibition of Smart Grids Week Linz the Climate and Energy Fund is inviting those projects in particular which were funded by the 4<sup>th</sup> call "New Energies 2020". These give an overview of the newly added research projects which are currently about to start.

**Venue: Power Tower der Energie AG Oberösterreich  
Böhmerwaldstraße 3, 4021 Linz, Österreich**

### Conference Fee

- > until May 5<sup>th</sup>, 2011: EUR 480,- (plus 20% VAT)
- > after May 5<sup>th</sup>, 2011: EUR 600,- (plus 20% VAT)
- > Students (till 27<sup>th</sup> years): EUR 39,- (plus 20% VAT)
- > One Day (May 25<sup>th</sup> or 26<sup>th</sup>, 2011) EUR 300,- (plus 20% VAT)
- > One Day (May 27<sup>th</sup>, 2011) EUR 150,- (plus 20% VAT)

The conference fee entitles you to the following benefits: admission to conference, conference materials, refreshments during breaks, luncheon, participation in the evening programs. Participation in the workshops is free.

### Further Information and Online-Application:

[www.ENERGIESYSTEMEderZukunft.at/smartgridsweek](http://www.ENERGIESYSTEMEderZukunft.at/smartgridsweek)



**Organiser:**

Austrian Federal Ministry for Transport, Innovation and Technology  
in cooperation with Energie AG Oberösterreich

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**Information and Registration:**

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Plenergasse 1, 1180 Wien  
Tel.: +43 (1) 409 79 36-66 Fax: +43 (1) 409 79 36-69  
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**Cooperation Partners:**



**With the support of:**



## ENERGIE 2050 - An Initiative by the BMVIT

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