



## Programme

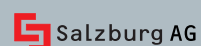
# SMART GRIDS WEEK | SALZBURG 2013

13<sup>th</sup> to 17<sup>th</sup> of May 2013

Salzburg Congress and Salzburg AG  
5020 Salzburg / Austria



**SMARTGRIDS**  
Modellregion Salzburg



**SIEMENS**

## Preface

Ladies and Gentlemen,

Modern innovation and technology policies do not only promote the development of new technologies and solutions, they also support their implementation. That is why pilot and demonstration projects are very important to me. Practical tests always supply very valuable knowledge and insights as to whether the new solutions actually correspond to people's requirements. In addition, the demonstration projects also help to create a strong domestic market for Austrian companies and promote widespread implementation.

For this reason it gives me particular pleasure to be able to present the pilot region of Salzburg, a pioneering project in Europe, as part of this year's Smart Grids Week. This project shows what smart grid solutions can look like in practice. Co-operation between science and business as well as the involvement of citizens is just as much a central issue here as is the development of tailor-made technical solutions. I am very pleased that Salzburg AG and the Province of Salzburg are so committed to this important matter and that Austria's innovative strength will thus become visible worldwide.

I wish all the participants interesting days, especially during the on-site visit to the flagship projects. I would like to bid a particularly warm welcome to our international guests and co-operation partners as the development of a sustainable energy supply can only succeed if we work together.



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

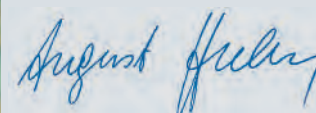
## Preface

Dear Participants of the Smart Grids Week 2013!

Our energy system is faced with complete restructuring. In order to pave the way for the energy turnaround, specific interaction between renewable energy, efficiency measures and intelligent grids is needed. A sustainable energy supply requires many different power generators with fluctuating energy output and the balance between energy supply and demand becomes more complex. The high demands made on energy efficiency require improved monitoring of consumption as well as the use of more energy-efficient technologies such as, for example, electro-mobility. For this, grids which can offer more are needed. Smart grids, energy grids which react intelligently with the assistance of ICT and flexible components, can make a significant contribution to dealing with these challenges.

Salzburg AG sees this challenge as an opportunity to actively shape the energy turnaround. Throughout Europe Salzburg ranks among the pioneers in developing intelligent energy grids and was named "First Smart Grid Model Region in Austria" by the Austrian Climate and Energy Fund. The model region is operated by Salzburg AG, Siemens and Salzburg Wohnbau and supported by an interdisciplinary research team (AIT, Vienna University of Technology, CURE and Fichtner).

As the representative of the host organizations it gives me great pleasure to welcome you to "Smart Grids Week 2013" and to be able to present significant demonstration projects and results of the Smart Grids Model Region to you as part of the conference. We wish you an interesting and successful meeting



*August Hirschbichler  
Spokesman of the Board,  
Salzburg AG, Austria*



The workshops of the Smart Grids Week Salzburg are free of charge and take place at the **Salzburg AG, Bayerhammerstraße 16, 5020 Salzburg, Austria**. The number of participants is limited. For further information and the online registration please visit: [www.smartgridsweek.at](http://www.smartgridsweek.at).

## DAY 1 May 13<sup>th</sup>, 2013

## WORKSHOP

### 10:00 – 17:15 ISGAN Annex 6 Workshop “Interaction of Power Transmission and Distribution in the Smart Grid”

In which way will the upcoming innovation technologies alter the interaction between distribution and transportation grid? In which way is it possible to optimize the transnational trading schemes? IEA “International Smart Grid Action Network” – Annex 6 (on “Power Transmission and Distribution System”) is addressing this challenge. Aim of the workshop is to discuss the future interaction of distribution and transmission network interconnection requirements, controls and grid policies.

The workshop addresses experts and delegates of the ISGAN partner countries.

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## DAY 2 May 14<sup>th</sup>, 2013

## WORKSHOP

### 10:00 – 12:30 Smart Grids D-A-CH Cooperation Workshops

As part of the smart grids D-A-CH cooperation D-A-CH stakeholders and those interested in D-A-CH cooperation come together to present what has been achieved and to discuss the future direction of the joint work.

Invited are past and future D-A-CH players.

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Phone: +49 177 899 7964, Email: [Albrecht.Reuter@FIT.Fichtner.de](mailto:Albrecht.Reuter@FIT.Fichtner.de)

### 10:00 – 12:30 Smart Grids ERA-NET Event No. 2: “Smart Grids for Smart Cities” (1<sup>st</sup> Part)

In the framework of ERA-Net Smart Grids transnational research programmes for smart grids have been elaborated. In cooperation with the European Commission tender topics for “Horizon 2020” are prepared.

The role of smart grids for the implementation in smart cities is subject of this workshop. The research area will be defined and concrete open research questions will be identified.

### 12:30 – 13:15 Information Workshop: Possibilities for Promoting Trans-National Projects

Strong R&D initiatives were developed in some European countries. These are already in a situation to demonstrate interesting results and they might contribute substantially to the pan-European development. In a next step the cooperation of these initiatives and projects might help to learn from each other’s experiences and to join forces to further develop the projects. Funding options are available on EU as well as on national levels for transnational projects.

Horizon 2020: Siegfried Loicht, The Austrian Research Promotion Agency (FFG), Austria / ERA-Net: Fritz Fahringer, Federal Ministry for Transport, Innovation and Technology, Austria / National Programs: Elvira Lutter, Climate and Energy Fund, Austria

### 13:15 – 14:00 LUNCH

### 14:00 – 16:30 Workshop: “Secure Smart Grids – Learn From Each Other”

This workshop is the third in the series of security meetings. The objective is to bring together the various players of the industry, the energy economy and the public sector. The workshop will be used to compare the experiences of the D-A-CH countries and to consider the next joint steps.

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Phone: +49 177 899 7964, Email: [Albrecht.Reuter@FIT.Fichtner.de](mailto:Albrecht.Reuter@FIT.Fichtner.de)

### 14:00 – 19:00 Smart Grids ERA-NET Event No. 2: “Smart Grids for Smart Cities” (2<sup>nd</sup> Part) Continuation of the Programme

This event is targeted for experts from smart grids and smart cities R&D and demonstration projects as well as policy makers and program managers of national funding programs.

Contact: Robert Hinterberger, NEW ENERGY Capital Invest GmbH, Austria  
Phone: +43 1 33 23560-3060, Email: [Robert.Hinterberger@energyinvest.at](mailto:Robert.Hinterberger@energyinvest.at)

### from 19:00 Welcome Evening Event at Schloss Leopoldskron

The Smart Grids Model Region Salzburg invites the participants to take part in a festive dinner. The tickets for the evening dinner are limited.

We kindly ask for your early registration [www.smartgridsweek.at](http://www.smartgridsweek.at).

Information and Registration: [www.smartgridsweek.at](http://www.smartgridsweek.at)

**Venue: Salzburg Congress, Auerspergstrasse 6, 5020 Salzburg**

*Chair: Hubert Fechner, University of Applied Sciences  
Technikum Wien, Austria*

### 9:00 Welcome and Opening

- » Ingolf Schädler, Deputy Director General, Federal Ministry for Transport, Innovation and Technology, Austria
- » August Hirschbichler, Spokesman of the Board, Salzburg AG, Austria
- » Gabi Burgstaller, Governor of the State of Salzburg, Austria

### 9:40 Energy meets Intelligence The Smart Grid – Constant Energy in a World of Constant Change

Arnulf Wolfram, Head of the Sector Infrastructure & Cities CEE, Siemens AG Austria

### 10:00 COFFEE BREAK

### 10:20 Smart Grids in Austria – Results Achieved and Next Steps?

*Chair: Michael Hübner, Federal Ministry for Transport, Innovation and Technology, Austria*

Interview: Andreas Lugmaier,  
Coordinator of the NTP Smart Grids, Austria

#### Flashlights from the Austrian Smart Grids Model Regions

- » Werner Neyer, General Manager, Vorarlberger Energienetze GmbH, Austria
- » Mathias Schaffer, Energie Steiermark AG, Austria
- » Michael Strebl, General Manager, Salzburg Netz GmbH, Austria
- » Walter Tenschert, General Manager, Energie AG Oberösterreich Netz GmbH, Austria
- » Theresia Vogel, General Manager, Climate- and Energyfund, Austria
- » Johannes Zimmerberger, General Manager, LINZ STROM Netz GmbH and LINZ GAS Netz GmbH, Austria

#### Next Steps

- » Helfried Brunner, AIT Austrian Institute of Technology
- » Werner Friedl, Energie-Control Austria
- » Wolfgang Gawlik, Vienna University of Technology, Austria
- » Christian Leichtfried, IBM Austria
- » Herbert Pairitsch, Infineon Technologies AG, Austria
- » Albrecht Reuter, FICHTNER IT CONSULTING AG, Germany

#### Austria's Contribution to International Development

- Statement: Robert Tesch, Siemens AG Austria
- » Rainer Bacher, BACHER ENERGIE AG, Switzerland
  - » Russ Conklin, U.S. Department of Energy, USA

- » Yonghun Jung, Executive Director, Korea Energy Economics Institute, North Korea
- » Ludwig Karg, General Manager, B.A.U.M. Consulting GmbH, Germany
- » Michele de Nigris, RSE s.p.A., Italy
- » Axel Strang, Ministry of Ecology, Sustainable Development and Energy, France (to be confirmed)

### 11:40 Introduction to the Smart Grid on-site dialogue

Michael Strebl, General Manager, Salzburg Netz GmbH, Austria

### 12:00 SNACK BREAK

### 12:30 Departure to the on-site dialogues

As part of the on-site dialogues there is the opportunity to visit two flagship projects of the Smart Grid Model Region Salzburg and discuss with the experts from the project teams:

» The **Smart Grid Model Community of Köstendorf** will demonstrate intelligent grid management in low voltage networks including photovoltaic systems and charging of electric cars. Additionally results of field tests for automated reactive power and voltage control in medium voltage networks in the region Lungau are presented.

» At the **Pioneering Residential Project "Rosa Zukunft"** in Salzburg-Taxham the focus is on the integration of Buildings and their inhabitants as interactive smart grid participants. After the presentation of the overall concept the intelligent interconnected components will be introduced, from the energy center to the photovoltaic system on the roof (with view over Salzburg) to smart grid-enabled home appliances and interaction technologies to involve the local people in various stations.

In order for everyone to get the opportunity to visit both flagship projects, the participants of the conference will be split into groups. Each group will visit both projects (estimated end: 19:30).

For the physical well-being is taken care of, both during the on-site dialogues as well as in the evening. Afterwards, all participants will meet at the invitation of Salzburg Wohnbau for the evening event in the garage of the "Rosa Zukunft".

Further information about these projects can be found at [www.smartgridssalzburg.at](http://www.smartgridssalzburg.at)

### 20:00 EVENING EVENT AT RESIDENTIAL PROJECT "ROSA ZUKUNFT" IN SALZBURG-TAXHAM

**DAY 4 May 16<sup>th</sup>, 2013**

**SYMPOSIUM**

**Venue: Salzburg Congress, Auerspergstrasse 6, 5020 Salzburg**

*Chair: Hubert Fechner, University of Applied Sciences Technikum Wien, Austria*

**9:00 Opening and Introduction to the Four Sessions of the Conference**  
 Klaus Bernhardt, FEEI – Association of the Austrian Electrical and Electronics Industries, Austria

**SESSION: GRID – INTEGRATION OF USERS WITH NEW REQUIREMENTS AND EFFICIENCY OF THE CURRENT OPERATION**

**9:10 Integration of Smart Generation and Smart Consumers: Results and Findings from E-Energy**  
 Ludwig Karg, General Manager, B.A.U.M. Consulting, Germany

**9:35 Q(U)-capable Inverters and Voltage Control at the Electrical Substation as Measures at High Penetration of PV**  
 Reinhard Nenning, Vorarlberger Energienetze GmbH, Austria

**9:55 MorePV2grid: From Simulation to Laboratory and Field Tests, the Way for the Implementation of a Local Voltage Regulation**  
 » Benoit Bletterie, AIT Austrian Institute of Technology  
 » Martin Heidl, Fronius GmbH, Austria

**10:20 Perspectives on 100 % Electricity from Photovoltaics in Ulm**  
 Holger Ruf, Institute of Energy and Drive Technologies, University of Applied Sciences Ulm, Germany

**10:40 COFFEE BREAK**

**Poster Presentation followed by a Walk through the Poster Exhibition**

**11:10 Integration of Electromobility Research Results from the Project EMPORA – E-Mobile Power Austria:** Eva Plunger, Verbund AG and Angela Berger, Siemens AG, Austria  
**E-Mobility Integration:** Rusbeh Rezania, Vienna University of Technology, Austria  
**MELONET:** Sandford Bessler and Jesper Groenbaek, The Telecommunications Research Center Vienna (FTW), Austria

**12:10 Digitalisation of the Energy System: Future Technologies in Transition**  
 Rolf Adam, Director Energy & Smart Grid EMEAR, Cisco Systems GmbH, Germany

**Conclusion as seen from the Perspective of the National Smart Grids Technology Platform**  
 Helfried Brunner, AIT Austrian Institute of Technology, Austria

**12:30 LUNCH**

**SESSION: SECURITY, SYSTEM CONTROL AND SECURITY OF SUPPLY**

**14:00 Round Table: Security of the ICT Architecture in the Smart Grid**  
*Introduction and Chair: Thomas Bleier, AIT Austrian Institute of Technology, Austria*  
 » Dominik Engel, Josef Ressel Center, Austria  
 » Wolfgang Galler, Energie Steiermark AG, Austria (to be confirmed)  
 » Stephan Flake, OFFIS e.V., Germany  
 » Markus Robin, General Manager, SEC Consult, Austria  
 » Richard Link, Siemens AG Austria  
 » Po-Wen Liu, Austrian Regulatory Authority for Broadcasting and Telecommunications (RTR), Austria

**Conclusion as seen from the Perspective of the National Smart Grids Technology Platform**  
 Georg Kienesberger, University of Technology Vienna, Austria

**15:30 COFFEE BREAK**

**Poster Presentation followed by a Walk through the Poster Exhibition**

**SESSION: GRID PLANNING, GRID STRUCTURES, INFRASTRUCTURE, METERING**

**16:15 The EU Infrastructure Package – Smart Grids Projects of European Interest**  
 Gerald Vones, Department Manager, Federal Ministry of Economy, Family and Youth, Austria

**16:30 Energy Strategies that Cover Several Energy Sources**  
 » Horst Steinmüller, Energy Institute, Johannes Kepler University Linz, Austria  
 » Wolfgang Gawlik, Vienna University of Technology, Austria

**Conclusion as seen from the Perspective of the National Smart Grids Technology Platform**  
 Ursula Tauschek, Oesterreichs Energie

**17:15 End of the Conference Day**

**19:30 EVENING EVENT AT SIEMENS SALZBURG**

**Information and Registration: [www.smartgridsweek.at](http://www.smartgridsweek.at)**

Venue: Salzburg Congress, Auerspergstrasse 6, 5020 Salzburg

### 9:00 Opening Remarks

Elvira Lutter, Climate and Energy Fund, Austria

### SESSION: BUSINESS MODEL INNOVATION

#### Proven Methods of Start-ups for the Smart Energy Industry

Chair: Hemma Bieser, avantsmart e.U. and Ulfert Höhne, Energy Change Consulting, Austria

#### 9:10 Introduction: Business Model Innovation

Theory and experiences of the start-up scene. The special case of the energy transition and the smart energy market. How to mobilise customer benefit, value proposition, and revenue structures?

#### 9:45 Business Model Dimension of Some Demo Projects

Discussion of recent experiences under Business Model Innovation Perspective

- » Christoph Resch, D-A-CH Task Force Use Cases, Austria
- » Michael Wedler, E-Energy Accompanying Research, Germany

#### 10:30 COFFEE BREAK

#### Poster Presentation followed by a Walk through the Poster Exhibition

#### 10:50 Successful Innovators as Role Models for the Smart Energy Industry

Presentation and discussion of successful start-up companies – not solely from within the energy industry. Innovators as interviewees:

- » Reinhard Korsitzke, CEO, cyberGRID GmbH, Austria
- » Nikolaus Starzacher, CEO, Discovery GmbH, Germany

#### 11:30 What can the Smart Energy Industry Learn from Small Start-ups? Discussion based on the Methods of Business Model Innovation

- » Angela Berger, National Technology Platform Smart Grids Austria
- » Reinhard Korsitzke, cyberGRID GmbH, Austria
- » Thomas Rieder, Salzburg Netz GmbH, Austria
- » Nikolaus Starzacher, Discovery GmbH, Germany

#### 12:15 "BMVIT-Smart Grids Awards 2013"

#### 12:45 Review of the Conference: Summary and Next Steps in the National Smart Grid Process

Andreas Lugmaier, Coordinator of the NTP Smart Grids, Austria

#### 13:00 LIGHT LUNCH AND END OF THE CONFERENCE

Information and Registration: [www.smartgridsweek.at](http://www.smartgridsweek.at)

## INFORMATION

### Organiser:

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## SUPPORTING PROGRAMME

### Poster Exhibition

Project leaders of R&D or demonstration projects on the subject "Smart Grids" are invited to present their results, information of publications in form of scientific posters from May 15<sup>th</sup> to 17<sup>th</sup> in the foyer of the Salzburg Congress.

The "BMVIT-Smart Grids Awards 2013" will be awarded on the basis of these posters.

Information and Registration: [www.smartgridsweek.at](http://www.smartgridsweek.at)



## Information and Registration: [www.smartgridsweek.at](http://www.smartgridsweek.at)

### Conference Fee

- > Participation at the workshops Mo/Tu: free
- > Regular fee We-Fr: EUR 650,00
- > One Day Ticket We/Th: EUR 350,00
- > One Day Ticket Fr: EUR 200,00
- > Students We-Fr: EUR 50,00
- > Authors of posters We-Fr: EUR 300,00

All fees are exclusive of 20% VAT. The conference fee includes the conference documents, refreshments during the coffee breaks, luncheons, participation at the on-site dialogues and the participation at the evening events.

### Venues

Salzburg Congress, Auerspergstraße 6, 5020 Salzburg, Austria  
Phone: +43 662 88987, [www.salzburgcongress.at](http://www.salzburgcongress.at)

Salzburg AG, Bayerhammerstraße 16, 5020 Salzburg, Austria  
Phone: +43 662 8884, [www.salzburg-ag.at](http://www.salzburg-ag.at)

### Hotel Reservation

For the participants of the Smart Grids Week Salzburg 2013 a limited number of rooms are reserved. We ask for your timely reservation via mail or fax form. All reservations will be confirmed upon availability.

Salzburg Congress / Congress Service  
Auerspergstraße 6, 5020 Salzburg  
Phone: +43 662 88987-603, Fax: +43 662 88987-66, Email: [meeting@salzburgcongress.at](mailto:meeting@salzburgcongress.at)

### Arrival

#### Via car

Salzburg is located at the intersection of the European motorway network: the Autobahn A1 Vienna - Salzburg, the Autobahn A8 Munich - Salzburg and the Autobahn A10 Villach – Salzburg are meeting. Please note that a motorway toll sticker (Vignette) is required for all motorways in Austria.

#### Via train

The Train Station Salzburg is just 15 minutes from the city center and 7 minutes from Salzburg Congress away. As a border station to Germany Salzburg has outstanding Euro-City, Intercity and ICE connections.

#### Via plane

The Airport W.A. Mozart is located about four kilometers from the city center. By taxi or public bus to Salzburg's old town can be reached in 15 minutes. Salzburg Airport is the destination of many international airlines and low cost carriers. There are direct flights to Salzburg from Berlin, Düsseldorf, Hannover, Hamburg, Cologne-Bonn, Frankfurt, Leipzig-Halle, Amsterdam, Vienna, Paris, London, Manchester, Stockholm and Zurich. The convenient airport shuttle takes you from Airport Munich to Salzburg.



**Organiser:**



**Cooperation Partners:**



**With the support of:**



## ENERGIE 2050 - An Initiative by the BMVIT

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