



TNO and The Network Institute present:

THE CUTTING EDGE OF SMART POWER GRIDS

A ONE-DAY INTERNATIONAL SEMINAR – 3 July 2013

VU University Amsterdam

Top-level international smart grid experts gather in Amsterdam for a symposium on the cutting edge of Smart Power Grids across Europe. This unique group of speakers is able to share how their smart grid research led to concrete industrial innovations. All speakers are international leaders in Smart Grids research and innovation already for many years and have been key players in the large European and national projects and programmes in this field. In keynotes from Germany, France, Greece, Sweden and the Netherlands, our speakers will share with you how a 100% renewable energy supply is reachable. How active electricity networks are prepared for massive green electricity production. How customers can become involved in co-creating a sustainable power system. And how novel smart technology approaches give rise to new energy business models. This seminar will give you an insight into the International Cutting Edge of Smart Power Grids!



The Network Institute

Your Speakers:

- Nouredine Hadjsaid, Professor, Grenoble Institute of Technology, and Director of IDEA, the common research center between EDF, Schneider Electric and INPGrenoble, France;
- Rune Gustavsson, Professor, KTH Royal Institute of Technology, Sweden;
- Nikos Hatziaargyriou, Professor, National Technical University of Athens, and Former Executive Vice-President of Public Power Corporation, Greece.
- Koen Kok, Senior Scientist Smart Electricity Grids, TNO, The Netherlands;
- Wil Kling, Professor, TUE and Board member of TKI Switch2SmartGrids, The Netherlands.

Sadly, Jürgen Schmid, former head of Fraunhofer IWES and one of our intended speakers, died earlier this May. His presence in the smart grids community will be missed. Our thoughts go out to his family and friends.

Get your TKI Switch2SmartGrids Update!

Get updated on the Dutch TKI Tender for smart grids innovation projects. The 2013 tender has a budget of 5,7 Mio Euro and is expected to open mid-June. Get yourself updated on the tender details!

Registration

To register and for more information go to: <http://www.tno.nl/smartgridseminar>.

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for life



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Program

- 9:15** **Registration and Coffee**
- 10:00** **Seminar Start**
Seminar Chair: Hans Akkermans, The Network Institute, VU University Amsterdam
- 10:05** **Opening Address**
Suzanne van Kooten, Director of Innovation Energy Efficiency, TNO, Delft
- 10:20** **Transformation to 100% Renewable Energy. Can It Be Done?**
Potential of Renewable Energy Production; Balancing Renewable Energy Feed-in; German experiences with energy management in green power grids.
Representative of the Fraunhofer Institute for Wind Energy and Energy System Technology, TBA.
- 10:50** **Intelligent Control of Distributed Energy Resources**
Integration of renewables in island grids. Microgrids: increase green generation while maintaining power quality and reliability; What can we learn from island grids for smart operation of continental grids?
Nikos Hatzigiorgiouris, National Technical University of Athens, and Former Executive Vice-President of Public Power Corporation, Greece
- 11:20** **Break**
- 11:40** **TKI Switch2SmartGrids Update on the 2013 Project Tender**
Update on the TKI Tender opening mid-June; What projects can be financed?
Wil King, TUE and Board member of TKI Switch2SmartGrids, The Netherlands.
- 12:00** **Integrating Small and Medium Customers through Energy Management**
Using demand response and distributed generation to raise the accommodation ceiling for renewables; Benefits for end-customers, energy suppliers and network operators; Experiences with the PowerMatcher.
Koen Kok, TNO, The Netherlands
- 12:30** **Lunch - Exhibition**
- 14:00** **Amsterdam Smart City Update**
Senior Representative of Liander, The Netherlands, TBA.
- 14:20** **Creating Secure and Dependable ICT for Customer Empowerment**
Smart grids – ICT architectures, challenges, barriers and solutions; Sharing and protection of information - Service Level Agreements (SLAs) ; Cyber security and privacy.
Rune Gustavsson, KTH School of Electrical Engineering, Sweden
- 14:50** **Smart Grid Technology for Green Power Systems**
Distributed generation in green urban energy systems; Decentralised control of green power grids; Cost-competitive technologies for power flow assessment, voltage control and protection in green power grids.
Nouredine Hadjsaid, Professor, Grenoble Institute of Technology, and Director of IDEA (common research center of EDF, Schneider Electric and INPGrenoble), France
- 15:20** **Discussion**
- 15:45** **Seminar Closing**
- 16:00** **Drinks - Exhibition**
- 17:00** **End**