

Personal Invitation to the RGI Workshop

**Understanding the Grid
Sustainable System Integration of Renewable Energies**

Renewable energies are at the core of the social and political debates on the future of our energy supply system and current system security developments. How many new grid lines are necessary and why? What happens on windy days in the grid? How can system reliability be assured while integrating high shares of renewable energies? Will the new grid system be an extension of the actual or is it necessary to build a completely new one? What electricity transmission data can and should be disclosed to enable an integrative discussion on the future grid system? How much transparency is required and possible? These are fundamental questions that need to be understood by all actors in order to truly support a common development of the future grid system.

The Renewables-Grid-Initiative is looking forward to discussing these issues with you at the upcoming

**RGI Workshop on
Understanding the Grid – Sustainable System Integration of Renewable Energies
17-18 October 2011 in Berlin/Cottbus
A workshop hosted by 50Hertz, Elia Group**

17 October 2011 – The **workshop** will be taking place from **10:00 to 16:00** at the **nhow Hotel in Berlin**. As a special feature, you are invited to **visit the 380kV cable tunnel underneath Berlin** after the workshop, followed by a **RGI Dinner at 19:30** to give you an exclusive opportunity for informal talks and networking with other participants.

18 October 2011 – A shuttle will drive us to **Cottbus**, where a situation with high renewable energy in-feed in the control zone of 50Hertz will be simulated at the **GridLab** – a European Training and Research Centre for System Security. The excursion will end in Berlin at 16:00.

For further information please do not hesitate to contact Lucile Barras at +49 30 779 0 779 14 or by mail: barras@renewables-grid.eu.

We are looking forward to seeing you soon in Berlin. Yours sincerely,

Antonella Battaglini
Executive Director of the Renewables-Grid-Initiative

About the Renewables-Grid-Initiative

The Renewables-Grid-Initiative promotes the expansion of distributed and bulk renewable energy generation and transmission capacity in Europe. Thousands of kilometres of new transmission lines and cables will need to be built in the coming decades. This will only be possible in the presence of supportive regulatory frameworks. To reach this target, the initiative brings together non-governmental organizations (NGOs), including WWF, RSPB, Natuur en Milieu and Germanwatch and TSOs including 50Hertz, Elia, National Grid, RTE, Statnett, Swissgrid, and TenneT. The grid infrastructure of the participating TSOs in the RGI provides the backbone of the existing power supply to some 250 million people in Europe, about half its population.

Preliminary Programme

Monday 17 October 2011 – at nhow Hotel, Strahlauer Allee 3, 12045 Berlin

9h00 Registration and Coffee

WELCOME

10:00 **Antonella Battaglini**, Executive Director, RGI and **Olivier Feix**, Public Affairs, 50Hertz

FUTURE – How much grid do we need and why?

10h10 Looking behind the scene: On what assumptions are future grid scenarios based? – **Henk Eleveld**, KEMA

Planning the integration of renewables in the 2020 grid – **Mihai Paun**, ENTSO-E

NGO's perspectives on grid requirements – **Thomas Duveau**, WWF

10h45 Questions & Discussion

11h15 Coffee break

TODAY – System Integration of Renewables – Today's challenges

11h45 Day-to-day challenges of integrating renewables in the transmission grid – **Alan Croes**, TenneT

Current grid integration of wind turbines and remaining challenges – **Ruth Brand-Schock**, Enercon

System requirements and technical challenges in the modification of grids – **Heike Kerber**, VDE German

Association for Electrical, Electronic & Information Technologies

12h25 Questions & Discussion

13h00 Lunch break

TRANSPARENCY – What data should | can | cannot be disclosed and why?

14h00 Panel Discussion with **Stephanie von Ahlefeldt**, BMWi | **Christoph Bals**, Germanwatch | **Olivier Feix**, 50Hertz | **Alexander Wirth**, Swissgrid

15h00 Questions & Answers

OUTLOOK – Closing Remarks

15h30 **Antonella Battaglini**, Executive Director, RGI

16h00 End of the workshop

VISIT – 380 kV Cable Tunnel in Friedrichshain

16h00 Visit

18h00 End of the visit

DINNER – Networking in a relaxed atmosphere

19h30 – 22h30 at nhow Hotel Berlin

Tuesday 18 October 2011 - Cottbus

80:00 Shuttle Departure from nhow Hotel Berlin

VISIT – GridLab in Cottbus

10:00 *Increasing Challenges for German Power Grid Operators caused by high renewable infeeds and possible ways to success – Prof. Dr Harald Schwarz, Center for Energy Technology Brandenburg
Brandenburg University of Technology (BTU), Cottbus*

10:30 *Visit and Simulation of high renewable energy infeed in the 50Hertz control zone
Hans-Jörg Dorny, CEO, GridLab
Marco Schneider & Dirk Lehmann, GridLab*

12h30 Lunch break

14h00 Shuttle back to Berlin, arrival at 16h00