

Wind Energy and Development Dialogue
„TERNA Dialogue – Grid Integration of Wind Power“

Landesvertretung Sachsen-Anhalt, Berlin

October 10, 2007

Evening Reception

Importance of Renewable Energies and Wind Energy in Development Co-operation

19:30 – 22:00

Welcome :

Markus Kurdziel

Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) GmbH

Speakers:

Dr. Georg Nüßlein

CDU / CSU - Bundestagsfraktion

Thilo Hoppe

Bundestagsfraktion - Bündnis 90/DIE GRÜNEN

Music: Olli Bott and Friends – Jazz from Berlin

Dinner Buffet

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October 11, 2007

Programme

Moderation: Dr. Cornel Ensslin, Ecofys Germany GmbH

09:00 **Welcome and Introduction**

Markus Kurdziel

Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) GmbH

Session 1:

Grid-integration of Wind Power – Country-specific Requirements and Challenges

09:15 **International Co-operation for the Advancement of Grid Integration Studies – Current Results of IEA Wind Agreement Task 25**

Dr. Cornel Ensslin

Ecofys Germany GmbH)

09:35 Q&A

09:45 **Challenges for Grid Integration of Wind Power**

10min short presentations on specific situation in ...

- CARICOM (Caribbean Community)
- Chile
- Mexico
- Tunisia

11:15 **Coffee Break**

Session 2:

Wind Turbine Technology for Improved Grid Integration

- 11:45 **State-of-the-Art of Wind Turbine Electrical Systems and Grid Interconnection**
- Prof. Dr. Detlef Schulz
Helmut Schmidt University Hamburg
- 12:05 Q&A
- 12:15 **International Certification of Grid Code Compliance of Wind Turbines**
- Christian Nath
Germanischer Lloyd Industrial Services GmbH, Hamburg
- 12:35 Q&A
- 12:45 **Closing Discussion of Morning Sessions**
- 13:00 **Lunch**

Session 3:

Power System Planning with Large Wind Power Penetration

- 14:00 **The All Islands Grid Study: Planning the Integration of High Shares of Renewables in the Irish Power System**
- Dr. Christian Nabe
Ecofys Germany GmbH
- 14:20 Q&A
- 14:30 **Assessment of Potential Security Risks due to High Levels of Wind Generation in South Australia**
- Dr. Markus Pöller
DIgSILENT GmbH
- 14:50 Q&A
- 15:00 **Coffee Break**

Session 4:

Operation of Power Systems with Large Amounts of Weather-Dependant Generation

15:20 **Power Generation at Bonaire – an Example of Transforming Island Power Supply to Sustainability**

Dr. Karsten Burges
Ecofys Germany GmbH

15:40 Q&A

15:50 **Wind Power in Combination with Large Amounts of CHP – Lessons Learned by the Danish Power System Operator**

Gitte Agersbaek
Energinet.dk, Fredericia, Denmark

16:10 Q&A

16:20 **Final Discussion**

“Best-practice of Power Systems Integration of Wind Energy”

17:00 **Farewell and Closing Remarks**

Markus Kurdziel
Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) GmbH

Simultaneous translation will be offered in English, German, French and Spanish.