



GERMAN
EGYPTIAN
YEAR OF SCIENCE
AND TECHNOLOGY
2 0 0 7

German-Egyptian Symposium

Wind Energy and Integration

German-Egyptian Year of
Science and Technology 2007

Deutscher Akademischer
Austauschdienst
(DAAD)

16th – 17th October 2007

Institute for Solar Energy Technology
Königstor 59, 34119 Kassel

Kassel University



U N I K A S S E L
V E R S I T Ä T

German-Egyptian Symposium “Wind Energy and Integration”

The German-Egyptian symposium “Wind Energy and Integration” should show the possibilities and limits of wind energy use in a country like Egypt with good wind energy potential.

Furthermore, components and possible manufacturing of wind turbines in Egypt will be presented as well as possible wind energy supply to neighbouring countries and to Europe. All in all, one will try to present the necessity for short and long term research for university and industrial areas.

This symposium is addressed to scientists, researchers, professors and advanced students as well as manufacturers of plants and components and planners and constructors of plants.

We look forward to meeting you at our symposium.

Prof. Dr. Jürgen Schmid

Chairman of the Executive Board ISET e.V.,
German Coordinator of Scientific German Egypt Year

Dr. habil Siegfried Heier

PD at Kassel University and
Scientific Chairman of Symposium

PROGRAMM Tuesday 16th October

12:00 - 13:00

Lunch Reception

13:00 - 14:30

Opening Session: Welcome Address

President of Kassel University

Prof. Dr. Galal El-Gemeie

Culture Chancellor and Director of the Education Mission, Embassy of the Arab Republic of Egypt

Representatives of Ministries & DAAD

Prof. Adel Khalil

Representative of Cairo University
Egypt Coordinator of Scientific German Egypt Year

Prof. Dr. Jürgen Schmid

Chairman of the Executive Board ISET e.V.,
German Coordinator of Scientific German Egypt Year

14:30 - 15:00

Coffee Break

15:00 - 18:00

Session 1: State of the Art

15:00 - 15:30

Wind Plant Technology

PD Dr. habil. S. Heier, Kassel University and Scientific Symposium Chairman

15:30 - 16:00

Electrical Systems and Grid Integration

PD Dr. habil. S. Heier, Kassel University,
Dr. B. Valov, ISET

16:00 - 16:30

Potential for Local Manufacturing of Wind Turbine Components in Egypt

Prof. A. Khalil, Cairo University
Prof. A. Mubarak, Cairo University

16:30 - 17:00

Coffee Break

17:00 - 17:20

Wind Velocity Measurement, Calculation of Power and Energy of Wind Turbines, Sound Pollution, Shadow Effects and Visualisation
S. Chun, CUBE

17:20 - 17:40

Wind Energy Utilisation in Egypt – Present Status and Future Plans

F. A. Mohammed, Vice Chairman for Technical Affairs, NREA

17:40 - 18:00

Weather Modelling and Wind Prediction in Egypt

Prof. A. Sherif, Cairo University

18:00 - 18:20

Prognosis of Wind Energy for Power Plant Management

Dr. K. Rohrig, ISET

19:00 - 21:00

Conference-Dinner

PROGRAMM Wednesday 17th October

09:00 - 12:40

Session 2: Status and Aspects of Utilization

09:00 - 09:30

Onshore and Offshore Strategies for Wind Energy Application in Germany, Results of DENA-Study

Prof. Dr. J. Schmid, ISET

09:30 - 10:00

Situation of the Electricity Supply in Egypt, Possibilities and Limits of Wind Energy Integration

Prof. M. El Sobki, Cairo University

10:00 - 10:30

Wind Cluster Management for Grid Integration of Large Wind Power

Dr. B. Lange, ISET

10:30 - 11:00

Coffee Break

11:00 - 11:30

Egypt as a Large Scale Supplier of Wind Power in an International Renewable Electricity System

Dr. G. Czisch, Kassel University

11:30 - 12:00

Power Quality Assessment in Zafarana Wind Power Plant – Case Study

El Sayed Mansour El Maghraby, Operation Manager of Zafarana Wind Power Plant (NREA)

12:00 - 12:30

Wind Hybrid Systems

Dr. M. Ibrahim, German University in Cairo

12:30 - 12:40

Conclusions of the German and Egyptian Coordinators

Prof. Dr. J. Schmid, ISET,

Prof. A. Khalil, Cairo University

12:40 - 13:40

Lunch Break

14:00 - 18:00

Session 3: Visit of a 100 MW-Wind Park with High Voltage Grid Integration

14:00 - 15:00

Departure by Bus (main entrance)

15:00 - 16:00

Visit of the Wind Park Sintfeld

16:00 - 17:00

High Voltage Grid Integration and Monitoring System

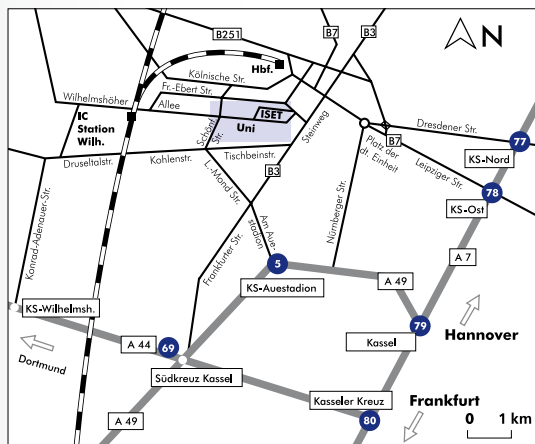
17:00 - 18:00

Return to Kassel

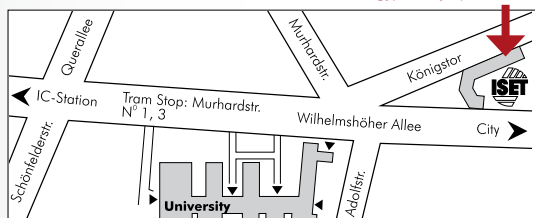
18:00

**Arrival in Kassel –
End of the Symposium**

LOCATION



German-Egyptian Symposium



REGISTRATION

Please reply as soon as possible, at the latest by 10th October, as the number of participants is limited. A short email reply (with name, organisation/company, email) will suffice.

The symposium including visit and conference dinner is free of charge for participants.

ISET

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