

# World Energy Dialogue 2006



## HANNOVER MESSE 2006

25th to 27th April 2006

Convention Centre, Hannover Exhibition Site

### Technologies for the Energy Mix of the Future: Secure – Efficient – Innovative – Sustainable – Competitive

Under the patronage of:

HRH Prince el Hassan bin Talal of Jordan, President Club of Rome



### With sessions on the following themes

- Wind Energy
- Fossil Fuel Power Plant
- Decentralized Power Systems
- Efficiency in Power Networks
- Oil and Gas
- Solar Energy
- Secure, Competitive and Sustainable Energy Supply

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### The warmest of welcomes to the World Energy Dialogue 2006

Energy and energy policy are now increasingly in the political focus and the difficult economic situation has contributed to this. The growing world demand for energy is driving energy prices ever upwards – and all we can do in response is to adopt foresighted policies backed up by more intensive research and innovative technologies.

Favourable production and investment conditions depend on having a reliable supply of energy based on efficient infrastructures. Suppliers are now having to compete on the international stage. For this reason we need a political strategy that is geared to problem solving. Today's energy policy makers are therefore being called upon to do a number of things: they have to safeguard energy supply through a broad-based energy mix, exploit all fuels and energy technologies equally and without bias, develop renewables and make full use of every opportunity for rational and efficient energy utilisation.

Adopting a broad-based energy mix is also an effective response to the global growth in energy demand and the challenges of today's environmental policy. Each and every option has to be left open. Every energy source and energy utilisation technology has its own specific risks and prospects. A forward-looking energy policy has to focus on limiting these risks and developing the opportunities as they become available. Having secure access to energy supply at competitive prices is an essential factor in the value creation process.

These issues and more will be debated and analysed in full during the WORLD ENERGY DIALOGUE at HANNOVER MESSE 2006.

We look forward to seeing you there.



Jürgen R. Thumann  
President of the BDI



Sepp D. Heckmann  
Chairman of the Management  
Board of Deutsche Messe AG

**Phone at the WED Desk:**  
**+49 (0) 5 11 / 86 08 – 2 32**

**Fax at the WED Desk:**  
**+49 (0) 5 11 / 86 08 – 2 35**

Please have your incoming faxes marked with the note: „World Energy Dialogue“ so that they can be directly passed on to you. You can collect your incoming messages at the WED Desk.

### **Name tags:**

You will receive a name tag upon registration at the WED Desk. Please wear it easily visible during the whole of the congress.

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### **Simultaneous translation:**

German-English translation will be provided during all three days of the congress. Please ask for your headset at the conference entrance.

## Opening

- 15.00–15.15**    **Energy – the global challenge for the 21st century**  
Jürgen R. Thumann, President, BDI, Berlin
- 15.15–15.20**    **Video broadcast: Opening of the Congress by HRH Prince el Hassan bin Talal of Jordan**  
President, Club of Rome, has taken over the patronage for this congress

## Keynotes

- 15.20–15.30**    **Energy markets and technologies in India**  
R.V. Shahi, Secretary to government of India, Ministry of Power, New Delhi, India
- 15.30–15.40**    **The Challenge – how to meet future energy demands?**  
Dr. Antonio Pflüger, Head of Division, International Energy Agency, Paris, France
- 15.40–15.50**    **Limits to conventional energy systems and the need for new paradigms**  
Dr. Eberhard von Koerber, Vice President, Club of Rome, Zurich, Switzerland
- 15.50–16.00**    **America's response to a changing energy world**  
William R. Timken jr., Ambassador of the United States of America, Berlin
- 16.00–16.10**    **New business opportunities for technology suppliers through expanded technology portfolios**  
Dr. Jürgen Schloß, Group Vice President, Siemens PTD, Erlangen

**16.10–18.00**

**Panel discussion:**

**Chairman:** Prof. Dr. Klaus Töpfer,

Former Executive Director, UNEP United Nations  
Environment Programme

**Lorraine Bolsinger**, Vice President & General  
Manager, GE USA, Cincinnati, USA

**Prof. Dr. Utz Claasen**, Chairman of the Management  
Board, EnBW AG, Karlsruhe

**Eivind Reiten**, CEO, Norsk Hydro ASA, Oslo, Norway

**Dr. Jürgen Schloß**

**18.00**

**End of the first conference day**

All speakers and delegates are cordially invited to a  
“Come together” with specialties from Northern Germany  
to be held in the Convention Centre from 18.00 hrs.

## Wind energy forum – industrial development and challenges. From onshore to offshore technology – from established countries to emerging markets

09.30 – 09.45

### Welcome and opening remarks

**Dr. Michael Böhl**, Head of Renewable Energies,  
German Energy Agency (dena), Berlin

**Chairman: Hanne May,**

Chief Editor, neue energie – the magazine for  
renewable energies, Berlin

09.45 – 10.15

### Development and prospects of the global wind industry

**Prof. Dr. Arthouros Zervos**, President,  
European Wind Energy Association (EWEA) and  
Chairman, Global Wind Energy Council (GWEC),  
Brussels, Belgium

10.15 – 10.45

### Challenge offshore

**Aidan Cronin**, Int. Policy Advisor,  
Vestas Central Europe A/S, Randers, Denmark

10.45 – 11.05

### Coffee break

11.05 – 11.35

### Wind power in Germany – a growing challenge for the transmission system operator

**Dr. Urban Keussen**, Managing Director,  
E.ON Netz GmbH, Bayreuth

19.30 hrs – Open house at the enercity expo-café

**11.35 – 12.00**

**Panel discussion:**

**Chairman:** Hanne May

Dr. Michael Böl

Dr. Urban Keussen

Hans Jørn Rieks

Prof. Dr. Arthouros Zervos

**12.00**

**End of forum 1**

Evening event hosted by Hannover Public Utilities – by personal invitation only. Delegates registering for the WED will receive an invitation to this event along with their conference papers.

## Fossil fuel power plant forum

- 09.30 – 09.35**    **Welcome and opening remarks**  
Dr. Karl Theis, Managing Director,  
VGB Power Tech e.V., Essen
- 09.35 – 10.05**    **The future of fossil fuel fired power plants  
from the view of a power plant operator**  
Gerhard Seibel, Managing Director,  
E.ON Kraftwerke GmbH, Hannover
- 10.05 – 10.35**    **Perspectives for economical and  
environmentally friendly power generation**  
Dr. Georg Gasteiger, Chairman of the Management  
Board, ALSTOM Power AG, Mannheim
- 10.35 – 11.05**    **Worldwide R&D-Activities for climate  
friendly power generation in fossil fuel po-  
wer plants**  
Prof. Dr. Alfons Kather, Director,  
Institute of Energy Technology, Hamburg



**11.05 – 12.00**

**Panel discussion**

**Chairman:** Dr. Karl Theis

**Dr. Georg Gasteiger**

**Prof. Dr. Alfons Kather**

**Gerhard Seibel**

**Karsten Smid**, Department Energy,  
Greenpeace e. V., Hamburg

**Wolfgang Reichel**, Executive Member of the  
Management Board, German Hard Coal Association,  
Essen

**Philippe Vannson**, Head of Unit,  
DG Research, Brussels, Belgium

**12.00**

**End of forum 2**

Evening event hosted by Hannover Public Utilities – by personal invitation only. Delegates registering for the WED will receive an invitation to this event along with their conference papers.

## Decentralized power systems forum

- 09.30 – 09.45**    **Welcome and opening remarks**  
**Dr. Martin Hoppe-Kilpper**, Head of Business Unit  
Power Plants and Grids, German Energy Agency  
(dena), Berlin
- Chairman:** **Stefan Biskamp**,  
Vice Chief Editor, WirtschaftsWoche, Düsseldorf
- 09.45 – 10.00**    **The generation of wind energy for  
decentralised use in the Republic of  
Sakha (Russia)**  
**Dr. Martin Hoppe-Kilpper**
- 10.00 – 10.15**    **Decentralised supply of energy for remote  
areas in China**  
**Volker Wackenfeld**, Ltr. Produktmanagement,  
SMA Technologie AG, Niestetal
- 10.15 – 10.45**    **Coffee break**
- 10.45 – 11.00**    **CHP for commercial establishments –  
an Indian experience**  
**Sanjeev Puri**, Managing Director,  
Green Power International, New Delhi, India
- 11.00 – 11.15**    **Setting price signals at the power plug –  
the example of a “self-organised virtual  
power plant”**  
**Bernhard Heyder**, Research and Development  
Department, EnBW AG, Karlsruhe
- 11.15 – 11.30**    **The concept of a virtual power plant**  
**Dr. Jörg Strese**, Signatory,  
STEAG Saarenergie AG, Saarbrücken
- 11.30 – 12.00**    **Discussion**
- 12.00**            **End of forum 3**

## Forum on efficiency in power networks

**14.00–14.05****Welcome and opening remarks**

**Rüdiger Haake**, Director Power Engineering Division,  
ZVEI, Zentralverband Energietechnik e.V., Frankfurt

**14.05–16.00****Panel discussion**

**Chairman: Prof. Dr. Ronnie Belmans**,  
Catholic University, Leuven, Belgium

**Dr. Rainer Bacher**, Head of Networks Department,  
Federal Energy Agency (BFE), Ittingen/Bern,  
Switzerland

**Louis Borgo**, Senior Banker Power and Energy,  
European Bank for Reconstruction and Development  
(EBRD), London, UK

**Alena Salamonova**, Head of EUR TF, SEPS-Slovenska  
elektrizacna prenosova sustava a.s., Bratislava, Slovakia

**Dr. Joachim Schneider**, Member of the Board,  
ABB AG, Mannheim

**Dr. Jürgen Schloß**, Group Vice President,  
Siemens PTD, Erlangen

**Jaques-André Troesch**, Commissioner, Commission  
de Régulation de l'Énergie (CRE), Paris, France

**Dr. R. P. Singh**, Chairman & Managing Director,  
Power Grid Corporation of India Ltd., India

**16.00–16.30****New opportunities for industrial power  
contracting in deregulated markets**

**Nicolas Delaporte**, Managing Director, Elyo GmbH,  
Potsdam

**16.30****End of forum 4****19.30 hrs – Open house at the enercity expo-café**

Evening event hosted by Hannover Public Utilities – by personal invitation only. Delegates registering for the WED will receive an invitation to this event along with their conference papers.

### **Oil and gas forum – technology challenges in the oil and gas industry**

- 14.00 – 14.20      The future needs oil and gas – can industry meet the challenge?**  
**Dr. Gernot Kalkoffen**, Chairman of the Board, ExxonMobil Central Europe and Chairman of the Association of German Oil and Gas Producers (WEG), Hannover
- 14.20 – 14.40      Future geological availability of oil and natural gas**  
**Prof. Dr. Bernhard Stribrny**, President, Federal Institute for Geosciences and Natural Resources, Hannover
- 14.40 – 15.00      Creating value from technology: turning challenges into opportunities**  
**Ingve R. Theodorsen**, Senior Vice President, Research & Technology, Statoil ASA, Trondheim, Norway
- 15.00 – 15.30      Coffee break**

**19.30 hrs – Open house at the energcity expo-café**

**15.30 – 16.30**

**Panel discussion:**

**The future of oil and gas production –  
will reality meet expectation?**

**Chaired by:** Drs Lucia C. van Geuns,

Deputy Director, Clingendael International Energy  
Programme (CIEP), The Hague, Netherlands

**Dr. Gernot Kalkoffen**

**Friedhelm Makohl**, Vice President Technology,  
BAKER HUGHES INTEQ, Celle

**André Steynberg**, Technical Manager,  
Sasol Technology (Pty) Ltd., Johannesburg, South Africa

**Prof. Dr. Bernhard Stribrny**

**Ingve R. Theodorsen**

**16.30**

**End of forum 5**

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## Forum on solar energy – new horizons with solar thermal power

- 14.00 – 14.10**    **Welcome and opening remarks**  
**The focal point of the forum:**  
**energy security and sustainable growth**  
Uwe Möller, Secretary General,  
Club of Rome, Hamburg
- 14.10 – 14.25**    **Solar power technologies: status and perspectives for dispatchable power supply**  
Prof. Dr. Robert Pitz-Paal, Head of Solar Research,  
DLR Deutsches Zentrum für Luft- und Raumfahrt e. V.,  
Cologne
- 14.25 – 14.40**    **Applications of concentrating solar power (CSP) electricity and co-generation: heating, cooling, desalination, capacity range**  
Dr. Andreas Häberle, CEO, PSE GmbH, Freiburg
- 14.40 – 15.00**    **CSP projects in USA: the California success story and plans for new projects**  
Henner Gladen, Member of the Board,  
Solar Millennium AG, Erlangen
- 15.00 – 15.20**    **CSP projects in Spain: players, impact on industry**  
Jose A. Mieres, Director of Renewable Energies,  
Iberdrola Ingenieria y Construcción,  
Madrid, Spain
- 15.20 – 15.40**    **CSP Projects in MENA: on the way and future opportunities**  
Eng. Malek Kabariti, President,  
NERC National Energy Research Centre, Jordan
- 15.40 – 16.00**    **Coffee break**

**16.00–16.20**      **CSP – MARKET POTENTIAL: demand 2050 for clean and secured power in EU, power & water in MENA, EU-MENA grid connections**

**Dr. Franz Trieb**, Project Manager, DLR Deutsches Zentrum für Luft- und Raumfahrt e.V., Stuttgart

**16.20–17.05**      **Industry and policy panel: from vision to market**

**Dr. Roberto Vigotti**, Chair Renewable Energy Working Party, IEA and Chair Renewable and Sustainable Development Committee, OME Observatoire Méditerranéen de l'Energie, Paris

Introduction: Support by international politics for solar thermal power

Round Table Discussion with:

**Chairman: Uwe Möller**

**Rolf Bernhard**, MAN-Ferrostaal Power Industry GmbH, Essen

**Dr. Johannes Hain**, Schott AG, Mainz

**Malek Kabariti**

**Fernando Rueda**, Iberdrola, Madrid, Spain

**17.05–17.15**      **Proposals for CSP expansion strategy and for the final WED declaration "Theses of Hannover"**

**Dr. Roberto Vigotti**

**17.15**              **End of forum 6**

**19.30 hrs – Open house at the enercity expo-café**

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## Forum on secure, competitive and sustainable energy supply

- 09.30–09.40**    **Welcome and opening remarks by the moderator**  
**Andreas Mihm**, Editor,  
Frankfurter Allgemeine Zeitung, Frankfurt
- 09.40–09.50**    **Security of energy supply – the global perspective**  
**Elena Virkkala Nekhaev**, Director Programmes,  
World Energy Council, London, UK
- 09.50–10.00**    **Aspects of the international oil markets during the next 20 years**  
**Dr. Uwe Franke**, Chairman of the Management Board, Deutsche BP AG, Bochum
- 10.00–10.10**    **Security of supply – an entrepreneurial challenge**  
**Dr. Burckhard Bergmann**,  
Chairman of the Management Board,  
E.ON Ruhrgas AG, Essen
- 10.10–10.20**    **Creating value in Germany by setting internationally competitive energy prices**  
**Dr. Gernot Schaefer**, Managing Partner,  
Schaefer Kalk GmbH & Co. KG, Diez  
and Chairman of the BDI Committee on Energy
- 10.20–10.30**    **The global energy system of the future**  
**Dr. Bodo Wolf**, Founder and Consultant,  
Choren Industries GmbH, Freiberg and  
Eco-Manager of the year 2005



**10.30 – 11.40**

**Panel discussion:**

**Chairman:** Andreas Mihm

**Dr. Burckhard Bergmann**

**Dr. Uwe Franke**

**Dr. Ralf Güldner**, Managing Director,  
AREVA NP GmbH, Erlangen

**Norbert Liermann**, Manager EU Affairs, OGP  
International Association of Oil & Gas Producers,  
Brussels, Belgium

**Elena Virkkala Nekhaev**, Director Programmes,  
World Energy Council, London, UK

**Dr. Gernot Schaefer**

**Dr. Bodo Wolf**

**11.40 – 11.50**

**Conclusions and presentation of results**

Andreas Mihm

**11.50**

**End of forum 7**



communiqué: **CC,room 3a**

**13.00**

**Sepp D. Heckmann**, Chairman of the Management  
Board, Deutsche Messe AG

**Walter Hirche**, Minister, Ministry of Economics,  
Labor and transport of Lower Saxony, Hannover

**Dr. Gernot Schaefer**, Managing Partner,  
Schaefer Kalk GmbH & Co. KG, Diez and Chairman  
of the BDI Committee on Energy

### Pipeline Technology Conference

Convention Centre – 25th April 2006

#### **Transportation, distribution and sewer networks – a gateway to new market opportunities**

This first collective discussion of all pipe-bound transport and distribution systems (water, sewage, gas, oil, district heat, etc.) promises to deliver a broad range of synergies and opens up new prospects for network management and improvement based on both research and practical experience.

**[www.eitep.de](http://www.eitep.de)**

### enercity energy dialogue 2006

Conference area Hall 1 – 26th April 2006

#### **Hannover Public Utilities present the enercity energy dialogue 2006**

“The corporate responsibility of energy utilities: balancing financial efficiency with social obligations” – this is the theme chosen for the second ‘enercity energy dialogue’, which the Hannover Public Utilities will be organising as part of the supporting programme for the World Energy Dialogue.

**[www.energiedialog.net](http://www.energiedialog.net)**

## EU Energy Analysis

Convention Centre – 26th April 2006

### **EU accession states and new candidate countries**

With representatives attending from Poland, the Czech Republic, Hungary, Slovakia, Estonia, Latvia, Lithuania, Bulgaria, Romania and Germany, the energy analysis project will seek to identify individual energy policy measures that could help each of the aforementioned countries improve its energy efficiency levels and make greater use of renewables. The findings are to be released into the public domain. Some sixty leading energy policymakers from the transition countries are expected to attend.

**g.kother@hs-zigr.de**

## Energy Africa

Convention Centre – 27th April 2006

### **Cooperation in production, supply and services for the oil & gas industry in Africa**

Key players from Africa and Germany will be presenting current developments in the African energy sector and reviewing the commercial opportunities open to German companies.

**post@afrikaverein.de**

The Siemens Power Transmission and Distribution Group (PTD), headquartered in Erlangen, Germany, is one of the leading global players in its market sector. As a product supplier, system integrator, solution designer and service provider, Siemens PTD ensures – for utilities and industry alike – the efficient and reliable transmission of electrical energy from the power plant to the consumer. With a worldwide workforce of about 25,850 and operations in nearly 90 countries, PTD had sales of 4.3 billion euros in fiscal 2005 (ended September 30). Siemens PTD operates in about 90 countries and achieves 86 per cent of its sales outside Germany.

**More information at: [www.siemens.com/energy](http://www.siemens.com/energy)**



ABB is a leader in power and automation technologies with over 100,000 employees, of whom 11,600 are located in Germany. We supply core components such as transformers, switchgear, power circuit breakers, cables and other accessories for the power technologies sector. ABB provides all of the services required to guarantee optimum product performance. We offer our customers a broad portfolio of turnkey systems and services for power transmission and distribution systems, as well as for power stations. This includes substations and automation systems for substations. For the power generation industry, ABB offers power station instrumentation, controls and electrics.

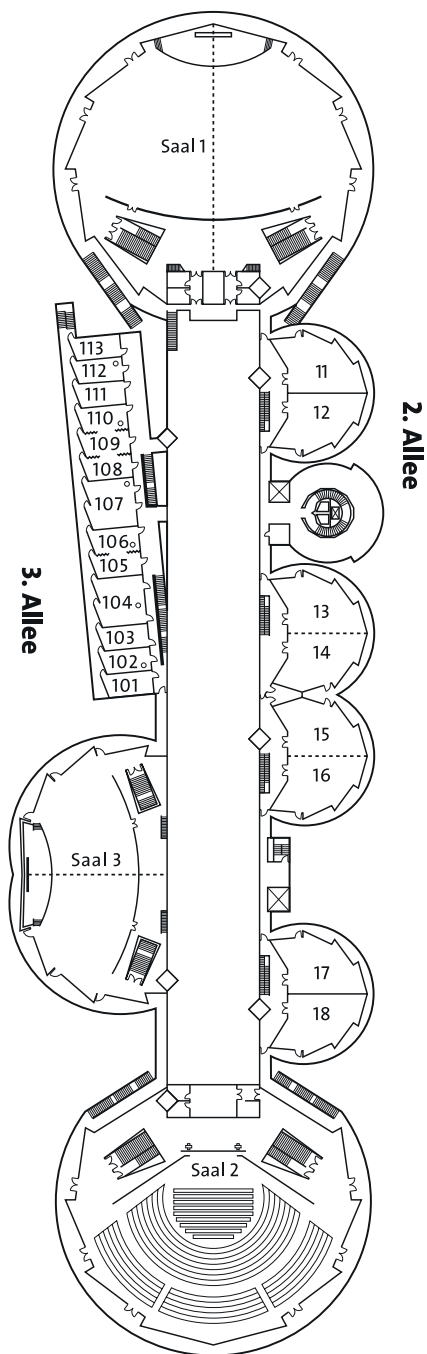
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## **INTERKAMA<sup>+</sup>**

Leading Trade Fair for Process Automation (Halls 7, 8, 9, 11, 14, 15)



## **Factory Automation**

Leading Trade Fair for Production Automation (Halls 8, 9, 11, 14, 15, 17)



## **Industrial Building Automation**

International Trade Fair for Integrated Industrial and Building Automation Systems (Hall 11)



## **Energy**

Leading Trade Fair for Renewable and Conventional Power Generation, Transmission, Distribution and Utility Management (Halls 11–13)



## **Pipeline Technology**

International Trade Fair for Pipeline Technology and Network Management (Hall 6)



## **Subcontracting**

Leading Trade Fair for Subcontracting Services, Materials, Components and Systems: Mechanical Engineering, the Automotive Industry and Plant Engineering (Halls 3–6)



## **Digital Factory**

Leading Trade Fair for Integrated Processes and IT Solutions (Halls 15, 16)



## **Industrial Facility Management & Services**

Leading Trade Fair for Industrial Services, Maintenance and Condition Monitoring (Hall 13)



## **MicroTechnology**

Leading Trade Fair for Applied Microsystems Technology and Nanotechnology (Halls 14, 15)



## **Research & Technology**

Innovations Market for Research and Technology (Hall 2)



Information Center



Convention Center



Conference Rooms



International Forum Design



Global Business Forum



Partner Country India



Open Air Site  
Pipeline Park



# World Energy Dialogue 2007



## HANNOVER MESSE 2007

The BDI and the Deutsche Messe AG  
thank you for your participation at the  
World Energy Dialogue 2006.

**We would appreciate to welcome you again  
next year at the 17th – 19th April 2007.**

**We wish you a pleasant and save journey!**

[www.hannovermesse.de](http://www.hannovermesse.de)

[www.world-energy-dialogue.com](http://www.world-energy-dialogue.com)