



WCRE

World Council for Renewable Energy

The World Council for Renewable Energy invites to the

World Renewable Energy Assembly 2005

"World Renewable Energy Acceleration: No more time to waste"

including the

2nd International Parliamentary Forum on Renewable Energies

3rd World Renewable Energy Forum

November 26th to 30th, 2005, Bonn/Germany
Hotel Kanzler

www.wrea2005.org

Organised by **EUROSOLAR**



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VRD Energie Stiftung

NRW State Initiative on Future Energies, NRW Energy Agency, UNESCO, EUFORES, ISES (International Solar Energy Society), IUCN Environmental Law Programme, The International Initiative for the Human Right for Energy (Lega Ambiente, ARCI and attac Italy), Youth Alliance for Renewable Energies



Chairmen's message

The vast majority of the world's citizens favours Renewable Energies. Yet fossil energy consumption still increases much faster than the use of Renewable Energies. Despite untold and devastatingly costly crises stemming from the use of fossil and nuclear energy, annually less than five percent of the world energy investments are spent on Renewable Energies. There is a plethora of declarations and action programmes for Renewable Energies, but what about their practical implementation?

Three major international events took place during May 28th and June 4th, 2004, in Bonn, Germany, alone:

- The Renewables 2004, a governmental conference hosted by the German government, assembled delegations from 154 governments, adopted an International Action Programme, consisting of the announcements of 58 participating governments concerning their current policies for Renewable Energies.
- The International Parliamentary Forum on Renewable Energies, hosted by the German Parliament, gathered parliamentarians from 70 countries and adopted the resolution "Renewable Energies - The Challenge for the 21st Century".
- The Second World Renewable Energy Forum: "Policies and Strategies", hosted by the World Council for Renewable Energy, brought together representatives of more than 100 independent Renewable Energy associations and 500 Renewable Energy protagonists from all continents, adopting the World Renewable Energy Agenda.

Our forthcoming World Renewable Energy Assembly represents the combined follow-up of the International Parliamentary Forum and the World Renewable Energy Forum. This assembly is the common platform for parliamentarian and non-governmental protagonists in the fields of Renewable Energy, Environmental Protection, Development Aid and Social Movements as well as for representatives of science, industry and agriculture committed to Renewable Energy.

World Council for Renewable Energy (WCRE)

The Chairmen Committee: Hermann Scheer (General Chairman), Rakesh Bakshi, Peter Droege, Michael Eckhart, Angelina Galiteva, Preben Maegaard, Wolfgang Palz, Ibrahim Togola

Participants are invited to send us their proposals for additional session statements.

Organisation

EUROSOLAR e. V., Bonn, Germany
Irm Pontenagel

Conference Language

English and German, simultaneous interpretation

The World Renewable Energy Assembly shows the central and unique importance of Renewable Energies for overcoming and avoiding climate change related threats beyond and beside the Kyoto Protocol, for fighting poverty and keeping peace, and for the initialisation of a new industrial and agricultural development worldwide.

- It shows the possibilities of a 100% replacement of all conventional energies by Renewable Energies - and their comprehensive economical, ecological and social benefits for the societies.
- It encourages political and economic decision-makers to undertake measures in favour of an urgent, consistent and ambitious implementation.
- It presents roadmaps for the accelerated mobilisation of Renewable Energies.
- It evaluates strategies and awards the best Renewable Energy policies.
- It compares the Renewable Energy perspective with new non-renewable energy options like "clean coal", conventional hydrogen, nuclear fission and fusion.
- It identifies existing open and hidden differences, and discusses the already existing conflicts of interests and those between targets in the energy debate, free of diplomatic and compromising regards.

A special session is dedicated to the German Renewable Energy Policy. In recent years this policy has emerged as the most successful example for an accelerated implementation of Renewable Energies, and the creation of a strong market for international Renewable Energy technology suppliers. The session shows how and why this policy has succeeded and considers the question of its continuation after the German elections.

The aim of the World Renewable Energy Assembly is the creation of a forceful alliance for Renewable Energies in order to enforce the Solar Century. There is no more time to waste.



Saturday, November 26th, 2005

10.00 - 13.00

Opening Session

Chair

- *Rakesh Bakshi, Chairman WCRE*

Welcome Addresses

- *Bärbel Dieckmann, Mayor of Bonn*
- *Christa Thoben, Minister of Economic Affairs and Energy of the State of North Rhine-Westphalia*
- *Representative of the German Government*
- *Representative of the EU Commission*
- *Walter Erdelen, Assistant Director-General of UNESCO*
- *D. Yogi Goswami, President of ISES*

Keynote Speech

- Facing the increasing world energy crisis and conflicts: the historical role of Renewable Energy
Hermann Scheer, General Chairman WCRE

12.30 **General Discussion**13.00 **Break**

14.00 - 19.00

Session 1

The German Renewable Energy Policy: An International Case Study

This session shows the existing legislation, its implementation steps, current and further developments. It shows the background of this legislation: the conflicts about the Renewable Energy Act, the pro- and con-coalitions, the role of the different supporters, the decision-making processes in politics, associations, science, industry and legal conflicts.

Chair

- *Irm Pontenagel and Rosa Hemmers, EUROSOLAR*

Speakers

- the German MPs *Hermann Scheer, Hans Josef Fell, Michael Hustedt, Marco Bülow, Josef Göppel*
- role of science: *Joachim Nitsch, DLR Stuttgart*
- role of lobby work of RE associations: *Johannes Lackmann, Federal Association for Renewable Energy (BEE)*
- concerning technical and transmission base: *Ralf Bischof, German Wind Energy Association (BWE)*
- role of grassroot activities: *Wolf von Fabeck, Solar Promotion Association, and Ernst Schrimpff, Bavarian Solar Initiatives*
- role of municipal utility promotion: *Johannes van Bergen, municipal utility of Schwäbisch-Hall*
- concerning legal conflicts: *Volker Oschmann, lawyer*

- role of the media: *Franz Alt, journalist*
- role of companies: *Frank Asbeck, SolarWorld, and Aloys Wobben, Enercon*
- role of farmers: *Dietrich Klein, German Farmers' Union*
- role of unions: *Klaus Wieseühgel, IG Bau labour union*
- role of environmental associations: *Angelika Zahrnt, Friends of the Earth Germany (BUND)*
- role of the youth activities: *Carsten König, Youth Alliance for Renewable Energies*
- role of the financial sector: *N.N., KfW Bankengruppe*

20.00

EUROSOLAR Reception

Sunday, November 27th, 2005

9.30 - 13.00

2nd Int. Parliamentary Forum

The International Parliamentary Forum on Renewable Energies will review the best policies for the promotion of Renewable Energies, including the constraints and controversies during the decision-making processes. One of the top issues will be a comparison between feed-in tariff and quota concepts. This session will allow an exchange of Renewable Energy policy experiences among legislators, parliamentarians and representatives from NGOs, science and industry supporting Renewable Energies. Parliamentarians will have a privileged right to speak.

Chair

- *Hermann Scheer, MP, Germany*

Co-chair

- *Mechtild Rothe, MEP; Taro Kono, MP, Japan;*
Nicias Ribeiro, MP, Brazil; Amin Mobarak, MP, Egypt

Speakers

- Best legal framework for Renewable Energy power promotion
Frede Hvelplund, Aalborg University, Denmark
- Renewable Tariffs: Are they making a comeback in North America
Paul Gipe, Tehachapi, USA
- Best biomass policy
Heinz Kopetz, Austrian Biomass Association, Austria
- Best biofuel promotion
Fernando Ferro, MP, Brazil
- Best research, development and education policy
Hans-Josef Fell, MP, Germany
- Best solar building and urban planning promotion
Federico Butera, Politecnico di Milano, Italy
- Best solar village promotion
Raymond Myles, INSEDA, India
- Parliamentarians and the energy conflict
Rudolf Rechsteiner, MP, Switzerland

13.00

Break



14.00 - 19.00

2nd International Parliamentary Forum on Renewable Energies (Part 2)

20.00

Solar Globe Award Ceremony

initiated by SolarWorld AG. Introduction by *Neville Williams*, author of "Chasing the sun. Solar adventures around the world."

Monday, November 28th, 2005

9.00 - 13.00

Session 2

Overcoming the Mobility Crisis by Replacing Fossil by Renewable Fuels

This session discusses the technological options for a shift from fossil to Renewable Energy fuels for vehicles and the corresponding policies. Top issues are the potential of biofuels, Renewable Energy based hydrogen, electric vehicles and hybrid cars. The different applications and their requirements will be compared.

This session will discuss the two main challenges for a global increase of the biofuel production: The international biomass certification in order to guarantee sustainable biomass production methods and a memorandum on bioenergy promotion between national economic needs and the WTO: how to make them compatible?

Chair

- *Wolfgang Palz, Chairman WCRE, and Claude Turmes, MEP, Luxemburg*

Speakers

- *R. James Woolsey, Former Director of US Central Intelligence, USA*
- *Giuliano Grassi, European Biomass Industry Association (EUBIA), Belgium*
- *Dörte Fouquet, lawyer, Belgium*
- *Peter Schrum, German Biofuel Association (BBK), Germany*
- *Ralph Sims, Massey University, New Zealand*
- *Herbert-Peter Grimm, WIP-Munich, Germany*

13.00 **Break**

14.00 - 18.00

Session 3

Renewable Energy versus Non-Renewable Energy Options

This session will show the comprehensive advantages of Renewable Energy options vis-à-vis new non-renewable options. It examines the

attempts of a nuclear renaissance, nuclear fusion, "clean coal" and non-conventional fossil fuel promotion, and their economical, ecological and structural consequences.

Chair

- *Preben Maegaard, Chairman WCRE, and Ibrahim Togola, Chairman WCRE*

Speakers

- *David Freeman, California Power Authority, USA*
- *Mycele Schneider, consultant, France*
- *Ulf Bossel, European Fuel Cell Forum, Switzerland*
- *Claude Turmes, MEP, Luxemburg*
- *Klaus Traube, Friends of the Earth Germany (BUND)*
(List of speakers to be completed)

19.00

Panel: Solar or Atoms?

Public Town hall discussion between leading Renewable Energy and nuclear energy protagonists

Tuesday, November 29th, 2005

9.00 - 13.00

Excursions

Supporting Programme of the State of North Rhine-Westphalia

The Energy State North Rhine-Westphalia (NRW) presents itself by an exhibition at the conference location. The NRW State Initiative on Future Energies and the NRW Energy Agency offer free excursions to remarkable projects of the Energy State North Rhine-Westphalia (for further details concerning the excursions, please refer to the last section of this document).

13.00 **Break**

14.00 - 19.00

Session 4

Mission Possible: Energy Independence and an Ecologically Sustainable Development through Renewable Energies

Energy independence as a general and common concept is only possible through Renewable Energies. This session will present different technological, economic and structural approaches to its achievement, from autonomously working power systems to solar villages, cities, regions and nations - the creation of a global solar habitat.

Chair

- *Angelina Galiteva, Chairwoman WCRE, and Peter Droege, Chairman WCRE*

**Speakers:**

- Wolfgang Palz, WCRE Chairman, Former EU-official Renewable Energies, France
 - Jürgen Schmid, ISET, Germany
 - Harry Lehmann, EUROSOLAR, Germany
 - Michael Stoehr, B.A.U.M. Consult, Germany
 - Helmut Tributsch, Hahn-Meitner Institute, Germany
 - Jason Makansi, Energy Storage Council, USA
- (List of speakers to be completed)

20.00

Reception by the City of Bonn and the State of North Rhine-Westphalia

Wednesday, November 30th, 2005

9.00 - 13.00

3rd World Renewable Energy Forum

A new basis for the World Economy

The 3rd World Renewable Energy Forum reviews the practical results of the "Renewables 2004", the outcomes of the "Renewables 2005", and the policies and RE activities of international institutions. It will focus on the development of new policy concepts for the global Renewable Energy Technology Certification and the establishment of

an International Renewable Energy Agency (IRENA). An "Alternative World Energy Outlook" will be presented.

This session will also discuss and adopt the world appeal "The Human Right for Renewable Energy".

Chair

- Hermann Scheer, General Chairman of the World Council for Renewable Energy (WCRE), and
- Mika Ohbayashi, Institute for Sustainable Energy Policies (ISEP), Japan

Speakers

- Osman Benchikh, UNESCO, France
 - Werner Zittel, L-B-Systemtechnik, Germany
 - Elmar Altvater, FU Berlin, Germany
 - Emil Salim, World Bank Extractive Industries Review, Indonesia
 - Dipal C. Barua, Grameen Shakti, Bangladesh
 - Wolfgang Hein, EUROSOLAR, Austria
 - Thomas Johansson, Lund University, Sweden
 - Massimo Serafini, Lega Ambiente, Italy
- (List of speakers to be completed)

13.00

Break

14.00

3rd World Renewable Energy Forum (Part 2)

17.00

End of the 3rd World Renewable Energy Forum and the World Renewable Energy Assembly

Excursions – Supporting Programme of the State of North Rhine-Westphalia, Tuesday, November 29th, 2005

| Excursion 1 | 50 solar energy housing estates in NRW | Visit to the solar energy housing estate in Cologne-Riehl (133 apartments) and the solar energy housing estate in Leverkusen (passive use of solar energy, 47 apartments).

A total of 50 solar energy housing estates are due for completion in North Rhine-Westphalia over the next few years. The aim of the project is it to demonstrate the possibilities of both the passive and the active use of solar energy in the building sector and to support the commercial launch of solar building.

| Excursion 2 | Future energies and science | Visit to the photovoltaics test laboratory of TÜV Rheinland and the German Aerospace Center (DLR) in Cologne. This tour takes us to state-of-the-art research facilities and shows the position of North Rhine-Westphalia concerning the development and application of future-orientated energy technologies.

| Excursion 3 | Energy-related use of wood | Visit to the wood chip heating plant in the "energy town" Nettersheim. Through the Bioheating plant Nettersheim the consistent continued development of the overall municipal strategy for environmental and climate protection has begun. This has given rise to a reality-based vision: the Nettersheim of tomorrow will be a model municipality for sustainable economic management, with a CO₂-balance-neutral energy generation in terms of heat and power as central criterion for success.

| Excursion 4 | Fuel Cells in NRW | Visit to GEW Cologne. At the water treatment plant in Cologne-Rodenkirchen the gas, utility and water supply company Cologne (GEW) operates the first 200 kW fuel cell plant in Europe which is fueled by sewage gas.

| Excursion 5 | Renewable energies in school | Visit to the Emilie-Heyermann-School and the Bodelschwingh-School in Bonn. Since 20 years the Emilie-Heyermann-School has been one of the most active schools in North Rhine-Westphalia which has incorporated the topics energy efficiency and renewable energies through different projects and activities into the everyday life. These activities have recently been multiplied internationally. The photovoltaic roof of the Bodelschwingh School consists of the following system: The amorphous silicon thin-film solar panels are applied by lamination to the profiled plates and generate electricity even under diffuse light conditions. By November approximately 500 square metres of photovoltaic surface will have been installed in this fashion at 3 schools in Bonn.

| Excursion 6 | Energy-related use of sewage gas and passive use of solar energy | Visit to the municipal water treatment plant in Bonn and the solar house of the Feix family in Bonn. The visit to the municipal water treatment plant Bonn gives an insight into the production of heat and electricity from sewage gas in a very energy-efficient way by means of a cogeneration plant. The solar house of the Feix family is a passive solar home with solar thermal plant, air ventilation and a heat recovery system.

Conference Registration Form

I register for the World Renewable Energy Assembly (WREA) 2005

Registration fee

before November 1st, 2005

- | | | |
|--------------------------|------------------------------------|----------------|
| <input type="checkbox"/> | Company representatives | 550,00 €uro |
| <input type="checkbox"/> | Participants of OECD countries | 300,00 €uro |
| <input type="checkbox"/> | Member of WCRE or EUROSOLAR | 250,00 €uro |
| | Membership number | _____ |
| <input type="checkbox"/> | Participants of non-OECD countries | 150,00 €uro |
| <input type="checkbox"/> | 1 day participation | 100,00 €uro |
| <input type="checkbox"/> | Parliamentarians | free of charge |

after November 1st, 2005

- | | | |
|--------------------------|------------------------------------|----------------|
| <input type="checkbox"/> | Company representatives | 600,00 €uro |
| <input type="checkbox"/> | Participants of OECD countries | 350,00 €uro |
| <input type="checkbox"/> | Member of WCRE or EUROSOLAR | 300,00 €uro |
| | Membership number | _____ |
| <input type="checkbox"/> | Participants of non-OECD countries | 180,00 €uro |
| <input type="checkbox"/> | 1 day participation | 100,00 €uro |
| <input type="checkbox"/> | Parliamentarians | free of charge |

Excursions for WREA participants (One excursion only)

- Excursion 1:** 50 solar energy housing estates in NRW
- Excursion 2:** Future energies and science
- Excursion 3:** Energy-related use of wood
- Excursion 4:** Fuel Cells in NRW
- Excursion 5:** Renewable energies in school
- Excursion 6:** Energy-related use of sewage gas and passive use of solar energy

Online registration and further information: www.wrea2005.org

Title/Name _____

Organisation/Company _____

Street _____

Postal Code/City _____ Country _____

E-mail _____ Phone/Fax _____

Date _____ Signature _____

Please complete the registration form and send it to:

World Council for Renewable Energy (WCRE), c/o EUROSOLAR e.V., Kaiser-Friedrich-Str. 11, D-53113 Bonn, Germany
Phone: +49-(0)228-362373 or 362375, Fax: +49-(0)228-361279 or 361213
info@wcre.org, Internet: www.wcre.org, www.wrea2005.org

Please remit your registration fee to:

EUROSOLAR, Account no. 40 42 50, Sparda Bank Köln e. G., Bank Code no. 370 605 90, IBAN DE98 3706 0590 0000 404250, BIC GENODEDISPK, indicate: "WREA 2005" (In case of cancellation, we charge 50 % of the registration fee).

The fee includes lunch, coffee breaks, excursion fees and conference documents.

For hotel reservations please contact: www.bonn-region.de (Bonn Tourist Information)

Event location: Hotel Kanzler, Adenauerallee 148, 53113 Bonn, Phone: +49(0)228-6844-0, www.deraghotels.de