

**IRENA INNOVATION AND TECHNOLOGY CENTRE (IITC)
RENEWABLES – COMPETITIVENESS AND INNOVATION**

WORKSHOP ON THE OCCASION OF THE OFFICIAL IITC INAUGURATION



October 6
2011

IRENA INNOVATION AND TECHNOLOGY CENTRE (IITC)
ROBERT-SCHUMAN-PLATZ 3

Renewables – Competitiveness and Innovation

Workshop on the Occasion of the Official IITC Inauguration

IRENA Innovation and Technology Centre (IITC)

Robert-Schuman-Platz 3. Thursday, 6 October 2011

WELCOME AND INTRODUCTORY REMARKS

- 08:30 Registration
- 09:00 **Adnan Amin**, Director-General, International Renewable Energy Agency (IRENA), Abu Dhabi
Welcome
- 09:10 **Karsten Sach**, Deputy Director-General, German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, Berlin
Renewable Energy and Climate Change – Costs and Innovation as Limiting Factors
- 09:20 **Manfred Konukiewitz**, Deputy Director-General, German Federal Ministry for Economic Cooperation and Development, Bonn
Renewable Energy and Cooperation for Sustainable Development – Costs and Innovation as Intervening Variables

SESSION I: THE ECONOMICS OF RENEWABLES – COMPETITIVENESS

Chaired by **Gauri Singh**, Director, Knowledge Management Innovation and Technology, IRENA, Abu Dhabi

- 09:30 **Dolf Gielen**, Director, IRENA Innovation and Technology Centre, Bonn
The Competitiveness of Renewable Energy Technologies – Preview of Draft IRENA Study

INTERVENTIONS

- 09:50 **Christine Lins**, Executive Secretary, Renewable Energy Policy Network for the 21st Century (REN21), Paris
Comment on Approach and Methodology
- Eicke Weber**, Director, Fraunhofer Institute for Solar Energy Systems (ISE), Freiburg
Comment on Scientific Progress to Lower Costs
- William Young**, Chief of Staff, Bloomberg New Energy Finance, London
Comment on Risk Assessments from a Financial Market Perspective
- 10:15 Questions & Answers
- 10:45 COFFEE BREAK

SESSION II: THE ECONOMICS OF RENEWABLES – COSTS AND BENEFITS

Chaired by **Hugo Lucas**, Director, Policy Advisory Services and Capacity Building, IRENA, Abu Dhabi

COSTS OF SYSTEMS INTEGRATION AND BENEFITS OF RENEWABLES, PART I

- 11:15 **Nicolai Zarganis**, Director, Energy R&D, Danish Energy Agency, Roskilde
Renewable Energy for Accelerated Economic Growth
- 11:25 **Ulrike Lehr**, Research Associate, Institute of Economic Structures Research (GWS), Osnabrück
Employment Effects of RE – Germany and MENA Region
- 11:35 **Joosueb Joseph Lee**, Senior Program Manager, Country Program & Knowledge Integration, Global Green Growth Institute, Seoul
Green Growth Opportunities through Renewable Energy
- 11:45 Comments from the Audience – Question and Answers
- 12:30 LUNCH

COSTS OF SYSTEMS INTEGRATION AND BENEFITS OF RENEWABLES, PART II

- 13:30 **Andrea Ricci**, Project Leader, New Energy Externalities Development for Sustainability, Rome
Scope of External Effects
- 13:40 **Paolo Frankl**, Head, Renewable Energy Division, International Energy Agency, Paris
Costs of Systems Integration – Summary and Outlook
- 13:50 **Richard Taylor**, Executive Director, International Hydropower Association, London
Hydropower – Costs and Benefits and Sustainability Efforts
- 14:00 **Brigitte Knopf**, Senior Researcher, Sustainable Solutions, Potsdam Institute for Climate Impact Research, Potsdam
Comparing the Cost of GHG reduction - Renewables vs. Other Options

FINDING THE EQUILIBRIUM

- 14:10 Comments from the Audience – Question and Answers
Moderated and summarized by **Dolf Gielen**, Director, IRENA Innovation and Technology Centre, Bonn

SESSION III: INNOVATION FOR ACCELERATED DEPLOYMENT

Chaired by **Mohamed El-Ashry**, Chair, Steering Committee, Renewable Energy Policy Network for the 21st Century (REN21), Paris

- 15:00 Introductory Statements and Panel Discussion
Framework Conditions for RE Technology Innovation – Best Practices and Lessons Learnt
- Bob van der Zwaan**, Senior Scientist, Policy Studies Department, Energy Research Centre of the Netherlands, Amsterdam
- Mario Ragwitz**, Head, Business Unit Renewable Energies, Fraunhofer ISI, Karlsruhe
- Ron Benioff**, Manager, International Programs of National Renewable Energy Laboratory (NREL), Golden / Colorado

Steve Sawyer, Secretary General, Global Wind Energy Council, Brussels

Fumiaki Ishida, Director General, New Energy and Industrial Technology Development Organization, Japan

16:15 COFFEE BREAK

SESSION IV: INNOVATION FOR ACCELERATED DEPLOYMENT. THE NEXT BIG DEVELOPMENTS IN RENEWABLES

Chaired by **Mohamed El-Ashry**, Chair, Steering Committee, Renewable Energy Policy Network for the 21st Century (REN21), Paris

16:45 **Reiner Buck**, Head of Point Focussing Systems, German Aerospace Center, Institute of Solar Research, Stuttgart

Solar Draft Towers as an example of innovative supply technology

Øyvind Leistad, Innovation Manager, ENOVA, Trondheim (tbc)

Innovation Wind Power

Günther Ebert, Division Director, Electrical Energy Systems, Fraunhofer Institute for Solar Energy Systems (ISE), Freiburg

Renewable Energy and Smart Grids - Role of Electric Vehicles

17:30 **Dolf Gielen**, Director, IRENA Innovation and Technology Centre, Bonn

Summary and Outlook: IITC Activities in the Field of Innovation

SESSION V: IITC ROADMAP – INITIAL STEPS

Chaired by **Thomas Johansson**, Co-chair Global Network on Energy for Sustainable Development/Lund University

17:45 Panel Discussion

Louis Seck, Minister of Renewable Energy, Senegal and President Designate of IRENA's Second Assembly

Martin Schöpe, Head of Division, German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, Berlin

Ron Benioff, Manager, International Programs, NREL, Golden /Colorado

Eicke Weber, Director, Fraunhofer ISE, Freiburg

18:45 **Dolf Gielen**, Director, IRENA Innovation and Technology Centre, Bonn

Concluding Remarks

19:00 Departure to Kunstmuseum Bonn (first bus)