

**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 Konukiewicz**, 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 21<sup>st</sup> 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 21<sup>st</sup> 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 21<sup>st</sup> 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 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)