



International Workshop on “Modeling Technology Oriented RD&D Strategic Cooperation for Climate Change Mitigation: Methodological Issues and Alternative Policy Scenarios”

*Fondazione Giorgio Cini - Venice, Italy
17th-18th March 2008*

PREAMBLE

Background of the Workshop

The Bali Action Plan reaffirms the need for enhanced action on technology development and transfer to support action on mitigation and adaptation. It also states clearly that the participation of India and China in future cooperative efforts to reduce GHGs is crucial. In order to respond to this policy need, modelling techniques have to be developed to analyze issues such as: the potential of endogenous technological change in de-coupling economic growth and pollution; the role of technology transfers and spillovers for the diffusion of carbon-free technologies; the environmental and economic efficacy of international technological agreements as opposed to climate agreements; and many others.

The acknowledgement of both these policy and modelling priorities is at the core of European Project “**Technology-Oriented Cooperation and Strategies in India and China: Reinforcing the EU dialogue with Developing Countries on Climate Change Mitigation**” (TOCSIN) and of the **International Forum on Climate Governance (IFCG)**, a project of the Climate Impacts and Policy Division of the Euro-Mediterranean Centre for Climate Change (CMCC).

The **International Forum on Climate Governance** aims to spark a debate on initiatives and policies at the sectoral, national, regional and international level, designed to reduce greenhouse gas emissions and to support the adaptation of the economic and environmental systems to the changing climate patterns. The Forum gathers international research groups, climate change policy experts, negotiators, representatives of international and national institutions and environmental NGOs to analyse the political dimension of climate change (<http://www.cmcc.it/web/public/IFCG>).

The IFCG and TOCSIN projects joined their forces to gather in Venice experts from the US, Europe and the major Asian countries (Japan, China and India) to discuss the role of technology cooperation in enhancing the effectiveness of climate policy. The meeting will also help to understand the prospects of future international agreements on technology cooperation and the role that the major world countries can play in these agreements. The interaction between economic, technological and political decisions and their role in shaping the future of climate policy will also be explored during the meeting.

Objectives of the Workshop

The Workshop will focus on both modelling and policy perspectives in tackling the issue of technology oriented RD&D cooperation in the energy sector. A specific attention will be paid in creating a strong link between policy design and modelling analysis, always accounting for the stakeholders' needs. These three dimensions often evolve independently, and thus a more integrated communication among these realities is likely to significantly increase the Workshop effectiveness. For this reason, the Workshop will be structured so to give space to these three voices and to accommodate a generous amount of time to general discussion.

Contents and Topics of the Workshop

Topics will be covered in different sessions, each one composed of two or three presentations. In addition to partners of the TOCSIN project, external experts and stakeholders will intervene.

PROGRAMME

MARCH 17TH, 2008

- 9:00 - 9:15 **REGISTRATIONS**
- 9:15 - 9:30 **WELCOME ADDRESS**
Carlo CARRARO – *Fondazione Eni Enrico Mattei (FEEM) and Ca' Foscari University, Venice, Italy*
Philippe THALMANN – *Ecoles Polytechniques Fédérales de Lausanne (EPFL), Switzerland*
- 9:30 - 11:00 **SESSION 1: International Technology Cooperation**
Chair: Carlo CARRARO – *Fondazione Eni Enrico Mattei (FEEM) and Ca' Foscari University, Venice, Italy*
- 9:30 - 10:00 Ji ZOU - *Renmin University of China, China*
"International Technological Cooperation: Potential Policy Scenarios"
- 10:00 - 10:30 P.R SHUKLA - *Indian Institute of Management Ahmedabad (IIMA), India*
"Technology Cooperation and Strategies for Climate Change Mitigation in India: Policy Lessons from Long-term Scenario Modeling"
- 10:30 - 11:00 General Discussion
- 11:00 - 11:30 *Break: Refreshments served in Sala del Chiostro dei Cipressi*
- 11:30 - 13:00 **SESSION 2: International Technology Oriented Agreements 1**
Chair: Philippe THALMANN - *Ecoles Polytechniques Fédérales de Lausanne (EPFL), Switzerland*
- 11:30 - 12:00 Valentina BOSETTI - *Fondazione Eni Enrico Mattei (FEEM), Italy*
"Delayed Participation of LDC in Climate Policy: a Reason to Postpone Abatement in the US and EU?"
- 12:00 - 12:30 Rolf GOLOMBEK - *Frisch Centre, Norway*
"International Technology Agreements"
- 12:30 - 13:00 General Discussion
- 13:00 - 14:00 *Lunch: served in Sala del Chiostro dei Cipressi*

14:00 - 16:00 SESSION 3: International Technology Oriented Agreements 2

Chair: David REINER – *University of Cambridge, UK*

14:00 - 14:30 Carsten HELM - *Technische Universität Darmstadt, Germany*

"The Case for International Emission Trade in the Absence of Cooperative Climate Policy"

14:30 - 15:00 Sjak SMULDERS – *Tilburg University, The Netherlands*

"Endogenous Technological Change and the Cost of Environmental Policy"

15:00 - 15:30 Kanemi BAN - *Osaka University, Japan*

"The Impact of Environmental Technology Cooperation Between Japan and China on the Global Economy"

15:30 - 16:00 General Discussion

16.00 - 16.30 *Break: Refreshments served in Sala del Chiostro dei Cipressi*

16:30 - 18:30 SESSION 4: Data and Modelling Issues

Chair: Maryse LABRIET - *KANLO, France*

16:30 - 17:00 Laurent DROUET - *Ecoles Polytechniques Fédérales de Lausanne (EPFL), Switzerland*

"Harmonizing the Bottom-up TIMES and the Top-down GEMINI-E3 Models: Characteristics of the Reference Case and Coupling Methodology"

17:00 - 17:30 Alain BERNARD – *Ministry of Ecology and Sustainable Development, France*

"Recent Update of Econometric Estimation of Energy Demand by American Households"

17:30 - 18:00 Alain HAURIE - *Operations Research Decision and System (ORDECSYS), Switzerland*

"Equilibrium with Coupled Constraints: a Paradigm for Stable IEAs?"

18:00 - 18:30 General Discussion

18:30 End of Day 1

20:00 *Social Dinner at the Do' Leoni Restaurant - Hotel Londra Palace*

MARCH 18TH, 2008

- 9:00 - 11:00** **SESSION 5: Climate Change and China Energy Challenges**
Chair: Jiahua PAN - *Research Centre for Sustainable Development, China*
- 9:00 - 9:30 Yingxuan ZHANG - *Hong Kong Baptist University, China*
"Environmental Problems in China: From Kyoto Protocol and Bali Roadmap to Foundations for a Cooperative Game-theoretic Solution"
- 9:30 - 10:00 Wenying CHEN - *Tsinghua University, China*
"China's Energy Challenges"
- 10:00 - 10:30 Dabo GUAN - *University of Cambridge, UK*
"Learning Curve and R&D Spillovers for China's Energy Sectors"
- 10:30 - 11:00 General Discussion
- 11:00 - 11:30 *Break: Refreshments served in Sala del Chiostro dei Cipressi*
- 11:30 - 12:30** **ROUND TABLE: What Scope for Technology Policy for Energy and Climate Change**
Chair: Ignazio MUSU – *Ca' Foscari University, Venice, Italy*
Antonio NAVARRA - *Centro Euro-Mediterraneo per i Cambiamenti Climatici (CMCC) and Istituto Nazionale di Geofisica e Vulcanologia (INGV), Italy*
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Antonio PARUZZOLO – *Thetis Spa, Italy*
Einar TELNES - *Kolibri Group Management, USA*
Gabriela VON GOERNE - *Greenpeace Deutschland, Germany*
- 12:30 - 13:30 Discussion
- 13:30 - 14:30 *Lunch: served in Sala del Chiostro dei Cipressi*
- 14:30 - 18:30** **TOCSIN PROJECT MEETING**
- 18:30** **End of Workshop**

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