



Strategies, Technologies and Costs

■ Potsdam, 16-17 March 2006 ■

Low Stabilisation Scenarios – Strategies, Technologies and Costs

**Joint Workshop of PIK and FEEM
Supported by UBA, Dessau**



Potsdam, 16-17 March 2006

Europe has committed itself to an ambitious climate protection goal – the 2°C target. Many stakeholders in business, NGOs and the public agree that the international community should pro-actively implement a climate policy that allows to achieve the 2°C target. This climate protection goal is highly ambitious because it requires a substantial departure from the business-as-usual path. The workshop brings together climate scientists, engineers, economists, and stakeholders in order to identify factors and pathways that are crucial in designing policies for achieving the 2°C target in a cost-effective way. In the first part of the workshop technologies and strategies of low stabilisation scenarios will be presented and discussed. The second part will treat costs and policy instruments for achieving low stabilisation targets.



 Fondazione
Eni
Enrico Mattei

 Potsdam Institute
for Climate
Impact Research

 Umwelt
Bundes
Amt  Umweltbundesamt
Dessau

Preliminary Programme (Last update March 16th)

Thursday, 16 March 2006

Strategies and Technologies for Low Stabilisation Scenarios

- 8.30 – 9.00 **Registration**
- 9.00 – 9.30 **Introduction**
Carlo Carraro (*FEEM*) and John Schellnhuber (*PIK*)
- SESSION I** **Chair: Carlo Carraro**
- 9.30 – 10.15 **Avoiding dangerous Climate Change. A scientists point of view**
John Schellnhuber, *PIK*
- 10.15 – 11.00 **How to achieve the 2° target: the costs and risks of overshooting**
Michel den Elzen, *MNP*
Discussant: Elmar Kriegler, *PIK*
- 11.00 – 11.30 **Break**
- 11.30 – 12.15 **Integrated Land-Use and Energy Scenarios for Low Stabilisation Targets**
Detlef van Vuuren, *MNP*
Discussant: Wolfgang Lucht, *PIK*
- 12.15 – 13.00 **The Economics of Nuclear Power in Low Cost Stabilisation scenarios**
Ujjayant Chakravorty, *University of California*
Discussant: Felix Christian Matthes, *Öko-Institut*
- 13.00 – 14.30 **Lunch**
- SESSION II** **Chair: Hermann Held, PIK**
- 14.30 – 15.15 **Carbon Capturing and Sequestration and extensive Biomass Use in the Electricity and Transport Sector**
Christian Azar, *Chalmers University of Technology*
Discussant: Gabriela von Goerne, *Greenpeace Germany*
- 15.15 – 16.00 **Long term Climate Stabilization Targets and Short Term Investment Strategies in the Energy Sector**
Carlo Carraro, *FEEM*
Discussant: Socrates Kypreos, *Paul Scherrer Institut*
- 16.00 – 16.30 **Break**
- 16.30 – 17.15 **Costs and Risks of Low Stabilisation Scenarios: lessons from IMCP**
Ottmar Edenhofer, *PIK*
Discussant: Valentina Bosetti, *FEEM*
- 17.15 – 18.00 **Energy Scenarios and Technology Options – the Perspective of IEA for Low Stabilisation**
Antonio Pflüger, *IEA*
Discussant: Christian Azar, *Chalmers University of Technology*
- 18.00 **Adjourn**
- 19.30 **Social Dinner.** Address by Harry Lehmann (*Head of Environmental Strategies' Faculty, Federal Environmental Agency (UBA)*)

Friday, 17 March 2006

Costs and Policy Instruments for achieving Low Stabilisation Scenarios

SESSION III

Chair: John Schellnhuber

9.00 – 9.45

Beyond Cap and Trade: Emission Pricing and Technology Policies

W. David Montgomery, *CRA International*
Discussant: Carlo Carraro, *FEEM*

9.45 – 10.30

Mitigation by a Global Trade System – an Outline from Vattenfall

Göran Svensson, *Vattenfall AB*
Discussant: David Montgomery

10.30 – 11.00

Break

11.00 – 11.45

The Impact of Technological Spillovers and Capital Trade on Climate Policies

Marian Leimbach, *PIK*
Discussant: Thomas Rutherford, *ZEW*

11.45 – 12.30

Lessons for modelling Endogenous Technological Change in Low Stabilisation Scenarios

Thomas Rutherford, *ZEW*
Discussant: Robert Marschinski, *PIK*

12.30 – 14.00

Lunch

SESSION IV

Chair: Ottmar Edenhofer

14.00 – 14.45

Adaptive Management and Multi-Region Cooperation for Low-Carbon Stabilisation. Options, Instruments and Strategies

Jürgen Scheffran, *University of Illinois*
Discussant: Hermann Held, *PIK*

14.45 – 15.30

International Policy Approaches to Address Climate Change post 2012

Martin Weiß, *Federal Environmental Agency (UBA)*
Discussant: Bill Hare, *PIK*

15.30 – 16.00

Break

16.00 – 16.45

What Policy and Business need from Science

Jennifer Morgan, *WWF*
Joachim Löchte, *RWE* (to be confirmed)
Birgit Schwenk, *German Federal Ministry for the Environment*
David Warrilow, *Department for Environment, Food and Rural Affairs*

16.45 – 17.00

Closing Remarks

Carlo Carraro (*FEEM*) and Ottmar Edenhofer (*PIK*)

17.00

Adjourn