2007 MEETING OF THE INTERNATIONAL ENERGY WORKSHOP

25 – 27 June 2007, Stanford University, Stanford, California

Preliminary Draft Program

Note: The main purpose of this draft is to give a first idea of the program. The draft contains the presentations grouped by sessions. For the time being, presentations are sorted by the name of the presenter. The scheduling of presentation times and the order of presentations are therefore subject to change. Most of these presentations will be given in parallel sessions. The program of the plenary sessions will be added later.

Sessions

(Draft as of 6 April 2007)

Monday, 25 June 2007

ENERGY SECURITY	SCENARIOS	FCCC	UNCERTAINTY
Twenty-in-ten: Reducing Gasoline Consumption in the United States **Thomas Alfstad**, Paul Friley, and Vatsal Bhatt	Prospective Analysis of the Chilean Power Generation Park with MARKAL Felipe Pichard, **Edi Assoumou**, Gilles Guerassimoff, Nadia Maïzi, Marc Bordier	Integration of Climate Change Sectoral Impacts from the PESETA Study into a CGE Model for Europe **Juan Carlos Ciscar** and Denise Van Regemorter	A Stochastic Control Model for the Optimal Timing of Climate Policies **Olivier Bahn**, Alain Haurie, Roland Malhamé
The Global Transition to Sustainable Energy for Energy Security and Safety **Gustav R. Grob**	Residential Electricity Demand Estimation from Aggregates: The Impact of Building Energy Codes and Appliance Standards Anin Aroonruengsawat, **Maximilian Auffhammer**, and Alan H.Sanstad	The Stability Likelihood of an International Climate Agreement **Rob Dellink**, Michael Finus and Niels Olieman	The DICE Model Under Uncertainty: Welfare Effects of Various Structural Shocks **AJ A. Bostian** and Alexander Golub
Hydrogen and Biofuels as Competing Energy Carriers in Western Europe **Timur Gül**, Leonardo Barreto, and Socrates Kypreos	Brazilian Outlook 2030: Survey on Some Main Aspects **Gilberto Hollauer**, João A. M. Patusco, Iran de Oliveira Pinto, and Renato A. F. Araujo	The Triptych Approach, a Staged Sectoral Post-2012 Regime for Climate Mitigation **Michel den Elzen**	Climate Policy, Prudence, and the Role of Technological Innovation **Carolyn Fischer** and Thomas Sterner
Energy Policies Impact on Energy Security **Fredrik Hedenus** and Christian Azar	Long-Term Energy Demand and Supply Outlook for the 31 Provinces in China through 2030 **Ryoichi Komiyama** and Kokichi Ito	Feasibility Study to Develop a Low-Carbon Society in Japan for 70% CO_2 Emission Reductions below 1990 Levels **Junichi Fujino**, Toshihiko Masui, Mikiko Kainuma, Tomoki Ehara, Go Hibino, Reina Kawase, Yuzuru Matsuoka and Shuzo Nishioka	A New Analytic Method for Finding Policy-Relevant Scenarios **David G. Groves** and Robert J. Lempert
China's Perspective on Energy Security **Xiaoli Liu**	Application of the TIMES Model for a Russian Post-2012 Climate Policy Scenario Alexander Golub and **Oleg Lugovoy**	Climate Change Policy – The Status Quo and Endangerment **Jürgen-Friedrich Hake**, Regina Eich and Wolfgang Fischer	A Transparent Decision Support Framework **G. Heinrich**, L. Basson, B. Cohen, J. Petrie, and M. Howells

Can Energy Security Help Us with the Climate Problem? **Ton Manders**, Johannes Bollen, Morna Isaac, and Detlef van Vuuren	Applying the Scenarios Methodology to Project Future Irish GreenHouse Gas Emissions to 2020 **Tadhg O' Mahony**, Ruth Kelly, John Ratcliffe, and John Sweeney	What is Binding When? Comparing Targets for Concentration, Ocean pH, Temperature and Sea Level Rise **Elmar Kriegler**, Katsumasa Tanaka, and Herman Held	Hedging Against Uncertain Energy Prices: The Example of a Multi-Regional Energy Systems Model **Volker Krey** and Dag Martinsen
Characterizing the Energy Security Dividend of Global Carbon Mitigation **Bryan K. Mignone**	The NEEDS TIMES Model: Italy and Slovenia Case Studies C. Cosmi, S. Di Leo, S. Loperte, M. Macchiato, **F. Pietrapertosa**, M. Salvia, and V. Cuomo	Constructing a Post-2012 Pathway: Being on Track to Avoid Dangerous Climate Change **Kyle Meng**, Daniel Dudek, Alexander Golub, Oleg Lugovoy, Annie Petsonk, Elena Strukova, and James Wang	Retrofitting or Replacing: The Decision of Installing Equipment to Reduce Emissions from a Coal-fired Power Plant **Dalia Patiño-Echeverri**, Benoit Morel, Jay Apt, and Chao Chen
Analysis of Market Powers in International Oil and GHG Emission Trading Using a Multi-agent Global Energy Model **Masafumi Nara** and Yasumasa Fujii	Economic Comparison of Greenhouse Gas Mitigation Options in Germany Katja Schumacher and **Ronald D. Sands**	Long-run Emissions Scenarios Revisited: Some Dynamics Underlying Plausible very Carbon-intensive Pathways **Olivier Sassi**, Céline Guivarch, Renaud Crassous, Jean-Charles Hourcade and Henri Waisman	Uncertainty and Learning: Implications for the Trade-off between Short-lived and Long-lived Greenhouse Gases D.J.A. Johansson, **U.M. Persson** and C. Azar
Addressing Energy Security Concerns in South Asia **Toufiq A. Siddiqi** and Jayant Sathaye	The Development of the Kazakh Domestic Energy System Between Technological Improvement and Climate Mitigation **GC Tosato**, Alexey Cheridnichenko, Celine Guivarch, and Gulmira Sergazina	Possible Time-consistent Participation Schemes for Post-Kyoto Climate Policy Juan Carlos Ciscar, Antonio Soria and **Denise Van Regemorter**	Greenhouse Gas Balances of Transportation Biofuels in Finland – Dealing with the Uncertainties **Sampo Soimakallio**, Tuula Mäkinen, and Tommi Ekholm
Electricity Technology Perspectives for a Sustainable Electricity Supply in Europe **Alfred Voß**, Ingo Ellersdorfer, Markus Blesl, and Ulrich Fahl	An E3 Econometric Model of Japan-Korea-China: Interdependence, Competition, and Cooperation **Mitsuo Yamada**, Masatoshi Shirai, and Keiko Nakayama		Technologies Needed for Achieving the EU 2°C Climate Target – Deterministic and Stochastic Scenarios with the TIAM Model **Sanna Syri**, Antti Lehtilä, Tommi Ekholm, and Ilkka Savolainen
			Uncertainty Analysis for Aggregated Carbon Cycle, Atmospheric Chemistry, and Climate Model (ACC2) **Katsumasa Tanaka**, Thomas Raddatz, and Christian Reick

Tuesday, 26 June 2007

ADAPTATION AND MITIGATION 1	EMISSION TRADING	HYDROGEN / NATURAL GAS	METHODOLOGY
Managing the Transition to Climate Stabilization Richard G. Richels, Thomas F. Rutherford, **Geoffrey J. Blanford**, and Leon E. Clarke	Electricity Trading in Europe under Different Emission Trading Schemes **Markus Blesl**	Fueling Hydrogen Transportation in California **Alan Lamont**, Jeffery Stewart, and Richard White	AD-DICE: An Implementation of Adaptation in the DICE Model **Kelly C. de Bruin**, Rob B. Dellink and Richard S.J.Tol

Prospects for Energy-Intensive Industries under a 450 ppm CO_2 constraint: lessons from an IMACLIM-POLES dialog **Renaud Crassous**, Olivier Sassi, Henri Waisman, Jean-Charles Hourcade Patrick Criqui, Silvana Mima, Alban Kitous	Over-Allocation or Abatement? A Preliminary Analysis of the EU ETS Based on the 2005 Emissions Data A. Denny Ellerman and **Barbara K. Buchner**	Results and Insights from Modeling a Transition to Hydrogen **Paul Lieby** and David Greene	The Role of Technology R&D in Mitigating Carbon Emissions **Paul Friley**, Vatsal Bhatt, and Thomas Alfstad
Assessing Adaptation to the Health Risks from Climate Change: What Guidance Can Existing Frameworks Provide? **Hans-Martin Füssel**	Spatial Indicators to Describe a Country's Attractiveness for CDM or JI Projects **Susanne Gluhak** and Markus Biberacher	An Agent-Based Modeling Approach to Evaluating Hydrogen Transitions **Marianne Mintz**	Desperately Seeking for Energy Efficiency… Using Information and Communication Technologies? Vincent Mazauric, Nadia Maïzi, Alain Anglade and **Gilles Guerassimoff**
The Cost of Waiting, A Look at Evolving US GHG Mitigation Proposals Dan Lashof, Elizabeth Martin, Pat Delaquil, **Gary Goldstein**, and Evelyn Wright	Stringency and Distribution in the EU Emissions Trading Scheme – The 2005 Evidence Claudia Kettner, **Angela Köppl**, Stefan P. Schleicher and Gregor Thenius	Analyzing a Hydrogen Transition –Key Analysis Issues **Steven Plotkin**	Renewable Energy in Global Energy Scenarios **Edward James-Smith**
Spent Nuclear Fuel Disposition and The Market Viability of Nuclear Energy **Lorna Greening**	Effects of European Emission Trading Scheme (ETS) on Industry Competitiveness – Suggestions on Balancing Measures **P. D. Lund**	Analyzing Hydrogen Futures Using NEMS-H2: An Integrated Modeling Approach **Frances Wood**	Integrating Externalities in Optimisation of Future Energy Systems **Kenneth Karlsson**, Lars Henrik Nielsen, Lise M. Frohn, Jørgen Brandt, Eigil Kaas, Alexander Baklanov, Allan Gross, Torben Sigsgaard, Jan Sørensen, and Henrik Brønnum-Hansen
Trends of European Union Energy Policy 1995-2007 **Susanna Horn**, Angelina Korsunova	EC Compliance with the Kyoto Protocol: The Key Role of the EU ETS **Leonardo Massai**	Insights on Hydrogen Transitions and Infrastructure Design from the Hydrogen Pathways Program **Christopher Yang** and Joan M. Ogden	Representation of Uncertainty with Regard to Unplanned Outages in Expansion Planning **Bruno Merven** and Glen Heinrich
Long-Term Mitigation Scenarios for South Africa **Alison Hughes**, Harald Winkler, Mary Haw	Assessing the Effects of the European Emissions Trading Scheme for Portugal Using the TIMES_PT Model **Sofia Simões**, João Cleto and Júlia Seixas	Energy Security Policies and Environmental Goals in Europe **Johannes Bollen**, Bob van der Zwaan, and Sebastiaan Hers	GISELA – A GIS-based Dynamic Optimization Model for the Evaluation of Potential Land Use and Agriculture Productivity under Global-Warming Scenarios **Shunsuke Mori**, Masahiro Kato, and Takafumi Ido
The 'String of Pearls': A Carbon Sequestration Source-Sink Matching and Cost Model **Peter H. Kobos**, Leonard A. Malczynski, and David J. Borns		Russia's New Alliances with Gas-Producing Countries: Balancing between Politics and Economics **Nadia Campaner**	Understanding International Energy Initiatives **Sergey Popov**, James Eastcott, David Fedor, Masahiro Kakuwa, Van Vy Nguyen and Sau Yi Wan
Future Energy Scenarios in Spain Given the European Energy and Climate Policy Framework **Maryse Labriet**, Helena Cabal, Natalia Caldès, and Yolanda Lechón		Evaluating Forecasts of Natural Gas Markets: Implications for Modeling and Policy Analysis **Timothy J. Considine** and Frank A. Clemente	Implications of Energy Decarbonization **Robert Sheffey Preston, III**

What is the Role of International Trade and Technological Spillovers in Future Climate Policy Regimes? **Marian Leimbach** and Lavinia Baumstark		The Optimal Allocation of Iranian Natural Gas Resources **Alimorad Sharifi**, Mohsen Renani, Rhman Khosh Akhlagh, and Mostafa Din Mohammadi	Learning-by-doing in the Renewable Energy Equipment Industry or in Renewable Electricity Production – Why Does it Matter to Differentiate? A Case Study of Germany **Katja Schumacher**, Michael Kohlhaas
Impact of Capital Rationing on the Adoption of Climate-Friendly Energy Technologies in a Developing Countries Framework **Richard Loulou**, Maryse Labriet, Amit Kanudia, Alain Haurie, Giancarlo Tosato		Monopoly or Competition: Welfare Effects of Restructuring Russian Gas Industry **Marina Tsygankova**	Using Cross-Impact Analysis to Improve Story Lines for Emission Scenarios **Vanessa Jine Schweizer**

Wednesday, 27 June 2007

ADAPTATION AND MITIGATION 2	MICRO CREDITS	SOCIAL ASPECTS	ENERGY RESOURCES
Six Steps to Curb Global Warming **John Mathews**	Nationalization of the Biomass *In Natura* Gasification Technology for Rural Electrification at Amazon State – The Gaseibras Project **S. T. Coelho**, S. M. S. G. Velázquez, S. M. A. dos Santos, and B. A. Lora	Exploring Sustainable Energy Systems Using Sociotechnical Scenarios **Boelie Elzen** and Peter S. Hofman	Advanced Solar R&D: Using Expert Elicitations to Inform Climate Policy **Erin Baker,** Leon Clarke, ,Jeffrey Keisler
Dedicating Electrical Engineering to Energy Efficiency **Vincent Mazauric**, Nadia Maïzi	The Holistic Energy Model – A Local Energy Planning Tool **Kate Louw** and Alison Hughes	Energy Forecasts in Search of Today's Society – Some Insights from Social Science to Bridge the Gap **Thomas Flüeler**	Development of a Peltric System in Nepal **Bed Prakash Jaisi Bhattarai**
A Cost-Effective Strategy to Reduce GHG Emissions in the Korean Oil Refining Industry *Dong-Woon Noh*	Micro-finance and Distributed Generation: How Project Design Factors Affect Sustainability **Lily Mathews**	Modeling an Energy Tax for China Hu Xiulian, **Jiang Kejun**, Liu Qiang, and Zhu Songli	Implementation of a GEOdatabase to Administrate Global Energy Resources **Markus Biberacher**, Susanne Gluhak and Daniela Zocher
Treatment of End-Use Technologies in Energy-Climate Models: A Review and Way Forward *Amol Phadke* ***and Jayant Sathaye***	A Model for 'Energisation' in Developing Urban Contexts Christian Nissing and **Harro von Blottnitz**	No Smooth (Managed) Pathway to Sustainable Energy Systems – Politics and Materiality in the Case of Wind Energy and Biogas **Ulrik Jørgensen** and Rikke Lybæk	Policy Schemes to Increase the Market Share of Renewables in the Colombian Power Generation Sector **Angela Cadena**, Juan Alzate, Andrea Díaz and Daniel Vesga

Addressing the Threat of Abrupt Climate Change in the Next Few Decades **Peter Read**		Fundraising for Energy Development: The Use of Voluntary-based Instruments **Akira Maeda**	Impacts of Expanding Natural Gas Reserves from Long-term and a Short-term Viewpoints **Yuko Hoshino**, Taishi Sugiyama
Differences in Regional Marginal Abatement Cost Curves: A Global Analysis **Uwe Remme** and Markus Blesl		Demand-pull Energy Technology Policies, Diffusion, and Improvements in California Wind Power **Gregory F. Nemet**	OPEC's oil rent in a Carbon-constrained World: Does Market Power Matter? **Daniel J. A. Johansson**, Christian Azar, Kristian Lindgren, and Tobias A. Persson
Bio-Energy With CO_2 Capture & Storage: Opportunities and Implications of Negative Carbon Emissions **James S. Rhodes** and David W. Keith		Inclusion of Carbon Revenues in Incentive Policies: A Cost-Benefit Analysis of the Wind Energy Sector in India **Pushkala Lakshmi Ratan**	GNEP's Market Deployment and Potential for Proliferation Resistance **Ann Reisman**, John Lee, Vatsal Bhatt and Michael Todosow
The CO_2 Emission Reduction Effect and the Cost of Diffusion of Energy-Efficient Technologies in the Transport Sector **Fuminori Sano**, Keigo Akimoto, Junichiro Oda, and Toshimasa Tomoda		Towards a New Methodology for Creating Societal Acceptance of New Energy Projects Bettina Brohmann, Monica Difiore, Ynke Feenstra, Eva Heiskanen, Ruth Mourik, Bianca Poti, and **Rob Raven**	Prospects for Nuclear Power in the Post-2012 Period **Ferenc L. Toth** and Daniel Weisser
Geoengineering and Economic Growth: Making Climate Change Irrelevant or Buying Time? Juan Bernardo Moreno-Cruz and **Sjak Smulders**		Barriers Against and Enablers for Scaling Up Energy Technologies for Climate Stabilization **Daniel Spitzberg** and Chris Green	Investigating the Interplay between Climate Change Policies and the Strategic Behavior of Middle-East Oil Producers **Henri Waisman**, Jean-Charles Hourcade, Olivier Sassi, Renaud Crassous, Céline Guivarch
Potential for CO_2 Capture and Sequestration from Biomass Conversion Plants under CO_2 Constraints **Takayuki Takeshita** and Kenji Yamaji		Agenda for Social Science Research-related Long-term Energy Options **Daniel Spreng**	Regional Renewable Portfolio Standards in a Multi-state MARKAL Model Pat Delaquil, Gary Goldstein, Less Goudarzi, Gary Kleiman and **Evelyn Wright**
Geological CO_2 Storage and Leakage **Bob van der Zwaan**, Reyer Gerlagh, Koen Smekens		Assessing the Impacts of a Fuel Tax in China Using a Computable General Equilibrium Model **Yan Xu**, Toshihiko Masui	