



INTERNATIONAL ENERGY WORKSHOP 2007

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

Program (as of 27 October 2007)

Note: Presentation titles are linked to abstracts. Full papers are linked to authors' names. Presentations are posted at the [EMF Web site](#).

Monday Morning – 25 June 2007 – Bechtel Conference Center, Encina Hall

8:00-9:00	<i>Registration and Continental Breakfast</i>	Lobby, Bechtel Conference Center, Encina Hall
9:00-9:15	<i>Opening and Welcome Address</i>	Joseph E. Aldy, Fatih Birol, Leo Schrattenholzer, John Weyant

PLENARY SESSION I

CHAIRPERSONS: Joseph E. Aldy, Leo Schrattenholzer

09:15-09:45	The Economic Impacts of Publicly-held Emergency Oil Stocks	Joseph E. Aldy
09:45-10:15	Agenda for Social Science Research-related Long-term Energy Options	David Goldblatt
10:15-10:45	Uncertainties in Long-term Climate Projections	Steven H. Schneider
10:45-11:00	Coffee Break	
11:00-11:30	Possible Time-consistent Participation Schemes for Post-2012 Climate Policy Over-Allocation or Abatement? A Preliminary Analysis of the EU ETS Based on the 2005 Emissions Data	Juan Carlos Ciscar, Antonio Soria and Denise Van Regemorter
11:30-12:00		A. Denny Ellerman and Barbara K. Buchner
12:00-13:15	Lunch	Outdoor locations and Oksenberg Room, 3rd Floor, Encina Hall
13:15-17:30	<i>Parallel Sessions (see next page)</i>	
18:00-20:00	Evening Reception – Stanford University Faculty Club	

Monday Afternoon – 25 June 2006 - 13:15-17:40

	PARALLEL SESSION 1 C330 (Philippines Conference Room) Central 3rd Floor of Bechtel	PARALLEL SESSION 2 C231 (CISAC Conference Room) Central 2nd Floor of Bechtel	PARALLEL SESSION 3 Bechtel Conference Center, Encina Hall	PARALLEL SESSION 4 E409 (Richard and Rhoda Goldman Confernece Room) East Wing Forth Floor of Bechtel
	ENERGY SECURITY	ENERGY EFFICIENCY AND RENEWABLES	FCCC	SOCIAL ASPECTS
	CHAIRPERSONS: <i>Peter. D. Lund Shunsuke Mori</i>	CHAIRPERSONS: <i>Holmes Hummel Uwe Remme</i>	CHAIRPERSONS: <i>Ryoichi Komiyama Alfred VoB</i>	CHAIRPERSONS: <i>Thomas Flüeler GianCarlo Tosato</i>
13:15-13:35	Can Energy Security Help Us with the Climate Problem? Ton Manders , Johannes Bollen, Morna Isaac, and Detlef van Vuuren	Regional Renewable Portfolio Standards in a Multi-state MARKAL Model Pat Delaquil, Gary Goldstein , Less Goudarzi, Gary Kleiman and Evelyn Wright	Managing the Transition to Climate Stabilization Richard G. Richels, Thomas F. Rutherford, Geoffrey J. Blanford , and Leon E. Clarke	Fundraising for Energy Development: The Use of Voluntary-based Instruments Akira Maeda
13:35-13:55	Energy Security Policies and Environmental Goals in Europe Johannes Bollen , Bob van der Zwaan, and Sebastiaan Hers	Demand-pull Energy Technology Policies, Diffusion, and Improvements in California Wind Power Gregory F. Nemet	The Triptych Approach, a Staged Sectoral Post-2012 Regime for Climate Mitigation Michel den Elzen	Assessing the Impacts of a Fuel Tax in China Using a Computable General Equilibrium Model Yan Xu , Toshihiko Masui
13:55-14:15	Energy Policies Impact on Energy Security Fredrik Hedenus and Christian Azar	Policy Schemes to Increase the Market Share of Renewables in the Colombian Power Generation Sector Angela Cadena , Juan Alzate, Andrea Diaz and Daniel Vesga	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	Spatial Indicators to Describe a Country's Attractiveness for CDM or JI Projects Susanne Gluhak and Markus Biberacher
14:15-14:35	Twenty-in-ten: Reducing Gasoline Consumption in the United States Thomas Alfstad , Paul Friley, and Vatsal Bhatt	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	No Smooth (Managed) Pathway to Sustainable Energy Systems – Politics and Materiality in the Case of Wind Energy and Biogas Ulrik Jørgensen and Rikke Lybæk
14:35-14:55	Characterizing the Energy Security Dividend of Global Carbon Mitigation Bryan K. Mignone	The Role of Technology R&D in Mitigating Carbon Emissions Paul Friley , Vatsal Bhatt, and Thomas Alfstad	What is Binding When? Comparing Targets for Concentration, Ocean pH, Temperature and Sea Level Rise Elmar Kriegler , Katsumasa Tanaka, and Herman Held	Analyzing Investor Perceptions and Carbon Revenues in the Wind Energy Sector in India Pushkala Lakshmi Ratan
14:55-15:30	Coffee Break			

15:30-15:50	Addressing Energy Security Concerns in South Asia Toufiq A. Siddiqi and Jayant Sathaye	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	Prospects for Nuclear Power in the Post-2012 Period Ferenc L. Toth and Daniel Weisser	Energy Forecasts in Search of Today's Society – Some Insights from Social Science to Bridge the Gap Thomas Flüeler
15:50-16:10	Natural Gas and Energy Security Yaroslav Minullin and Leo Schrattenholzer	The CO₂ 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
16:10-16:30		Desperately Seeking for Energy Efficiency... Using Information and Communication Technologies? Vincent Mazauric, Nadia Maïzi, Alain Anglade and Gilles Guerassimoff		Integrating Externalities in Optimisation of Future Energy Systems Kenneth Karlsson , Lars Henrik Nielsen, Lise M. Frohn, Jørgen Brandt, Eigel Kaas, Alexander Baklanov, Allan Gross, Torben Sigsgaard, Jan Sørensen, and Henrik Brønnum-Hansen
16:30-16:50		Dedicating Electrical Engineering to Energy Efficiency Vincent Mazauric , Nadia Maïzi		Identifying Public Orientations to Energy Technologies in Australia Peta Ashworth , Simone Carr Cornish, John Gardner and Anna Littleboy
16:50-17:10		Treatment of End-Use Technologies in Energy-Climate Models: A Review and Way Forward Amol Phadke and Jayant Sathaye		
17:45	Adjourn			

Tuesday Morning – 26 June 2007 – Bechtel Conference Center, Encina Hall

PLENARY SESSION II: EMF

CHAIRPERSON: John Weyant

09:15-09:45	Update on EMF Climate Change Activities	John Weyant
09:45-10:15	EMF World Natural Gas Study: Some Initial Conclusions	Hillard Huntington
10:15-10:45	A New Energy Efficiency Center	James Sweeney
10:45-11:00	Coffee Break	
11:00-11:30	Stochastic Baselines	Richard Richels
11:30-12:00	Interpreting Energy Technology & Policy Implications of Climate Stabilization Scenarios	Holmes Hummel
12:00-13:15	Lunch	Outdoor locations and Oksenberg Room, 3rd Floor, Encina Hall
13:15-17:00	Parallel Sessions (see next page)	

Tuesday Afternoon – 26 June 2006 - 13:15-17:00

	PARALLEL SESSION 5 Bechtel Conference Center, Encina Hall	PARALLEL SESSION 6 E409 (Richard and Rhoda Goldman Conference Room) East Wing Forth Floor of Bechtel	PARALLEL SESSION 7 C330 (Philippines Conference Room) Central 3 rd Floor of Bechtel	PARALLEL SESSION 8 C231 (CISAC Conference Room) Central 2nd Floor of Bechtel
	MITIGATION	UNCERTAINTY	HYDROGEN	RESOURCES I
	CHAIRPERSONS: <i>Barbara Buchner</i> <i>Yasumasa Fujii</i>	CHAIRPERSONS: <i>Richard Loulou</i> <i>Ton Manders</i>	CHAIRPERSONS: <i>Steven Plotkin</i> <i>Sonia Yeh</i>	CHAIRPERSONS: <i>Katja Schumacher</i> <i>Ferenc Toth</i>
13:15-13:35	The Cost of Waiting. A Look at Evolving US GHG Mitigation Proposals Dan Lashof, Elizabeth Martin, Pat Delaquil, Gary Goldstein , and Evelyn Wright	A Stochastic Control Model for the Optimal Timing of Climate Policies Olivier Bahn , Alain Haurie, Roland Malhamé	13:15-13:55 Analyzing a Hydrogen Transition – Key Analysis Issues Steven Plotkin	Electricity Technology Perspectives for a Sustainable Electricity Supply in Europe Alfred Voß , Ingo Ellersdorfer, Markus Blesl, and Ulrich Fahl
13:35-13:55	Feasibility Study to Develop a Low-Carbon Society in Japan for 70% CO₂ Emission Reductions below 1990 Levels Junichi Fujino , Toshihiko Masui, Mikiko Kainuma, Tomoki Ehara, Go Hibino, Reina Kawase, Yuzuru Matsuoka and Shuzo Nishioka	The DICE Model Under Uncertainty: Welfare Effects of Various Structural Shocks AJ A. Bostian and Alexander Golub	13:55-14:20 Fueling Hydrogen Transportation in California Alan Lamont , Jeffery Stewart, and Richard White	Exploring Sustainable Energy Systems Using Sociotechnical Scenarios Boelie Elzen and Peter S. Hofman
13:55-14:15	Future Energy Scenarios in Spain Given the European Energy and Climate Policy Framework Maryse Labriet , Helena Cabal, Natalia Caldès, and Yolanda Lechón	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	14:20-14:45 Issues in Integrated Market Modeling of the Hydrogen Transition Paul Leiby and David Greene	Implementation of a GEOdatabase to Administrate Global Energy Resources Markus Biberacher , Susanne Gluhak and Daniela Zocher
14:15-14:35	Differences in Regional Marginal Abatement Cost Curves: A Global Analysis Uwe Remme and Markus Blesl	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	14:45-15:10 Common Issues in Hydrogen Transition Analysis – How is Agent-Based Modeling Different? Guenter Conzelmann	Advanced Solar R&D: Using Expert Elicitations to Inform Climate Policy Erin Baker , Leon Clarke, Jeffrey Keisler
14:35-14:55	Prospects for Energy-Intensive Industries under a 450 ppm CO₂ constraint: lessons from an IMACLIM-POLES dialog Renaud Crassous, Olivier Sassi, Henri Waisman, Jean-Charles Hourcade , Patrick Criqui, Silvana Mima, Alban Kitous	Representation of Uncertainty with Regard to Unplanned Outages in Expansion Planning Bruno Merven and Glen Heinrich		Profits=Energy/Carbon Robert Sheffey Preston, III

14:55-15:30	Coffee Break			
15:30-15:50	Long-Term Mitigation Scenarios for South Africa Alison Hughes , Harald Winkler, and Mary Haw	Hedging Against Uncertain Energy Prices: The Example of a Multi-Regional Energy Systems Model Volker Krey and Dag Martinsen	15:40-16:05 Analyzing Hydrogen Futures Using NEMS-H2: An Integrated Modeling Approach Frances Wood	Renewable Energy in Global Energy Scenarios IEA Implementing Agreement for Renewable Energy Technology Deployment (RETD)
15:50-16:10	Economic Comparison of Greenhouse Gas Mitigation Options in Germany Katja Schumacher and Ronald D. Sands	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	16:05-16:30 Insights on Hydrogen Transitions and Infrastructure Design from the Hydrogen Pathways Program Christopher Yang and Joan M. Ogden	Trends of European Union Energy Policy 1995-2007 Susanna Horn and Angelina Korsunova
16:10-16:30	A Cost-Effective Strategy to Reduce GHG Emissions in the Korean Oil Refining Industry Dong-Woon Noh	Greenhouse Gas Balances of Transportation Biofuels in Finland – Dealing with the Uncertainties Sampo Soimakallio , Tuula Mäkinen, and Tommi Ekholm	16:30-Close Panel Discussion	Spent Nuclear Fuel Disposition and The Market Viability of Nuclear Energy Lorna Greening
16:30-16:50	Economic Implications of Climate Change Mitigation for Canada Nick Macaluso			Development of an Integrated Framework to Evaluate GNEP's Market Deployment and Potential for Proliferation Resistance Ann Reisman , John Lee, Vatsal Bhatt and Michael Todosow
17:00	Adjourn			

Wednesday Morning – 27 June 2007 – Bechtel Conference Center, Encina Hall

PLENARY SESSION III

CHAIRS: Barbara Buchner, Leo Schrattenholzer

09:15-09:45	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
09:45-10:15	IPCC WG3 2007: Global and Sectoral Mitigation Potentials, Technology and the Costs of Climate Stabilization	Terry Barker
10:15-10:45	An Overview and the Outcome of the Project PHOENIX 2002–2006: Final Report	Shunsuke Mori
10:45-11:00	Coffee Break	
11:00-11:30	Towards a Quantifiable Endogenous Theory of Growth with “Useful Work” as an Important Explanatory Factor of Production	Robert U. Ayres and Benjamin Warr
11:30-12:00	Modeling an Energy Tax for China	Hu Xiulian, Jiang Kejun, Liu Qiang, Zhu Songli, and Yan Xu
12:00-13:15	Lunch	Outdoor locations and Oksenberg Room, 3rd Floor, Encina Hall
13:15-17:00	Parallel Sessions (see next page)	

Wednesday Afternoon – 27 June 2006 - 13:15-17:00

	PARALLEL SESSION 9 Bechtel Conference Center, Encina Hall	PARALLEL SESSION 10 C231 (CISAC Conference Room) Central 2nd Floor of Bechtel	PARALLEL SESSION 11 C330 (Philippines Conference Room) Central 3rd Floor of Bechtel	PARALLEL SESSION 12 E409 (Richard and Rhoda Goldman Conference Room) East Wing Forth Floor of Bechtel
	ADAPTATION, BIO-RESOURCES, AND GEOENGINEERING	RESOURCES II	SCENARIOS	ETS/MICRO CREDITS
	CHAIRPERSONS: <i>Evasio Lavagno Thomas Rutherford</i>	CHAIRPERSONS: <i>Ton Manders Jean-Charles Hourcade</i>	CHAIRPERSONS: <i>Gary Goldstein Denise Van Regemorter</i>	CHAIRPERSONS: <i>Alison Hughes Akira Maeda</i>
13:15-13:35	Addressing the Threat of Abrupt Climate Change in the Next Few Decades Peter Read	Evaluating Forecasts of Natural Gas Markets: Implications for Modeling and Policy Analysis Timothy J. Considine and Frank A. Clemente	An E3 Econometric Model of Japan-Korea-China: Interdependence, Competition, and Cooperation Mitsuo Yamada, Masatoshi Shirai, and Keiko Nakayama	Stringency and Distribution in the EU Emissions Trading Scheme – The 2005 Evidence Claudia Kettner, Angela Köppl, Stefan P. Schleichner and Gregor Thenius
13:35-13:55	Bio-Energy With CO₂ Capture & Storage: Opportunities and Implications of Negative Carbon Emissions James S. Rhodes and David W. Keith	Axis of Gas? Nadejda M. Victor	Long-Term Energy Demand and Supply Outlook for the 31 Provinces in China through 2030 Ryoichi Komiyama and Kokichi Ito	Effects of European Emission Trading Scheme (ETS) on Industry Competitiveness – Suggestions on Balancing Measures P. D. Lund
13:55-14:15	AD-DICE: An Implementation of Adaptation in the DICE Model Kelly C. de Bruin, Rob B. Dellink and Richard S.J.Tol	Impacts of Expanding Natural Gas Reserves from Long-term and a Short-term Viewpoints Yuko Hoshino, Taishi Sugiyama	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	Electricity Trading in Europe under Different Emission Trading Schemes Markus Blesl
14:15-14:35	Assessing Adaptation to the Health Risks from Climate Change: What Guidance Can Existing Frameworks Provide? Hans-Martin Füssel	On the Cost Effectiveness of Biomass Gasification in the District Heating Systems of Västra Götaland, Sweden – A MARKAL Modelling Analysis Martin Börjesson and Erik O. Ahlgren	Using Cross-Impact Analysis to Improve Story Lines for Emission Scenarios Vanessa Jine Schweizer	Assessing the Effects of the European Emissions Trading Scheme for Portugal Using the TIMES_PT Model Sofia Simões, João Cleto and Júlia Seixas
14:35-14:55	A New Analytic Method for Finding Policy-Relevant Scenarios David G. Groves and Robert J. Lempert	Potential for Bioenergy with CO₂ Capture and Sequestration under CO₂ Constraints Takayuki Takeshita and Kenji Yamaji		
14:55-15:30	Coffee Break			

15:30-15:50	Integration of Sectoral Impacts of Climate Change in a CGE Model for Europe Juan Carlos Ciscar and Denise Van Regemorter	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	The Development of the Kazakh Domestic Energy System Between Technological Improvement and Climate Mitigation GC Tosato , Alexey Cheridnichenko, Celine Guivarch, and Gulmira Sergazina	The Holistic Energy Model – A Local Energy Planning Tool Kate Louw and Alison Hughes
15:50-16:10	The ‘String of Pearls’: A Carbon Sequestration Source-Sink Matching and Cost Model Peter H. Kobos , Leonard A. Malczynski, and David J. Borns	Analysis of Market Powers in International Oil and GHG Emission Trading Using a Multi-agent Global Energy Model Masafumi Nara and Yasumasa Fujii	Application of the TIMES Model for a Russian Post-2012 Climate Policy Scenario Alexander Golub and Oleg Lugovoy	A Model for ‘Energisation’ in Developing Urban Contexts Christian Nissing and Harro von Blottnitz
16:10-16:30	Geoengineering and Economic Growth: Making Climate Change Irrelevant or Buying Time? Juan Bernardo Moreno-Cruz and Sjak Smulders	OPEC’s Strategies and Oil Rent in a Climate Conscious World Daniel J. A. Johansson , Christian Azar, Kristian Lindgren, and Tobias A. Persson	Prospective Analysis of the Chilean Power Generation Park with MARKAL Felipe Pichard, Edi Assoumou , Gilles Guerassimoff, Nadia Maizi, Marc Bordier	Micro-finance and Distributed Generation: How Project Design Factors Affect Sustainability Lily Mathews and James P. O'Brien
17:00	Adjourn			

The organizers of the IEW meeting like to thank [EPRI](#) for their support.