

July 22 – August 2, 2013
Snowmass, Colorado
Agenda, Presentations & Papers

Week One | Week Two

The Agenda: |**Week One Agenda** (146.9KB)|

Presentations: |**July 23**| |**July 24**| |**July 25**| |**July 26**|

|**Session 1 Papers**| |**Session 2 Papers**|

Monday, July 22

Session #1: Modeling Renewable Energy Initiative

(Organized by Doug Arent, Patrick Sullivan, Leon Clarke, Gunnar Luderer, and John Weyant)

Weyant, John - "Welcome & Introduction" |**Weyant: Welcome & Introduction** (50.9KB)|

Arent, Doug - "Introduction to Modeling Renewable Energy Initiative" |**Arent: Introduction to Modeling Renewable Energy Initiative (revised)** (2.4KB)|

Sullivan, Patrick - "Part 1: Global Wind Supply Curves" |**Sullivan Part 1: Global Wind Supply Curves** (4.1KB)|

Fujimori, Shinichiro - "Integrating New Wind Potentials at NIES" |**Fujimori: Integrating New Wind Potentials at NIES** (484.2KB)|

Sullivan, Patrick - "Part 2: IAM Crosscut - Resource Scenarios" |**Sullivan Part 2: IAM Crosscut - Resource Scenarios** (1.7KB)|

Supplement |**Sullivan: Presentation Supplement** (61KB)|

Bauer, Nico - "IAM Perspective on Wind Resource Potentials" |**Bauer: IAM Perspective on Wind Resource Potentials** (3.5KB)|

van Ruijven, Bas (moderator): General discussion about next steps to improve resource potentials for IAM's

Denholm, Paul - "Storage & Flexibility Options for VRRE Integration?" |**Denholm: Storage & Flexibility Options for VRRE Integration?** (7.0KB)|

Ueckerdt, Falko - "The Economics of Variability & Implications for IAM's" |**Ueckerdt: The Economics of Variability & Implications for IAM's** (2.1KB)|

Pietzcker, Robert - "Results from IAM low/high integration scenarios" |**Pietzcker: Results from IAM low/high integration scenarios (revised)** (951.4KB)|

Clarke, Leon - "IAM Discussion on Wind Energy" |**Clarke: IAM Discussion on Wind Energy** (4.3KB)|

Denholm, Paul - "Bottom-up Discussant on IAM VRRE integration"

Clarke, Leon (moderator):

- Discussion on possible future integration constraints

- Discussion of cost metrics for (and parameterization of) integration constraints

Next steps for VRRE Integration Analysis - ADVANCE meeting in November

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Tuesday, July 23

Session #1 continued:

Bauer, Nico - "Crosscut - Competition & Carbon" |**Bauer: Crosscut - Competition & Carbon** (2.4KB)|

Wilson, Tom - "Technology Characterization: costs & other parameters" |**Wilson: Technology Characterization Wilson: Technology Characterization** (2.2KB)|

Sue Wing, Ian - "Technology Characterization in hybrid top-down, bottom-up models" |**Sue Wing: Technology Characterization - Top-Down, Bottom-Up Integration** (178.2KB)|

Miketa, Asami - "Importance of Modeling Renewables, a wide-angle perspective" |**Miketa: Modeling Renewables - Wide-Angle Perspective** (4.2KB)|

Weyant, John & Arent, Doug (moderators) - Group discussion: Priorities, Reactions, and Comments

Arent, Doug (moderator) - Next Steps for the Renewables Initiative: Special Issue? Time frame. Next study operating committee.

Weyant, John: "Integrated Impacts Overview" |**Weyant: Integrated Impacts Overview 23-July** (52.9KB)|

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Papers & readings from Session #1:

Arent, Doug -

"Improved Offshore Wind Resource Assessment in Global Climate Stabilization Scenarios" |**Arent: Improved Offshore Wind Resource Assessment in Global Climate Stabilization Scenarios** (973.9KB)|

Paper authored by Yuyu Zhou, Patrick Lucklow, Steven J. Smith, and Leon Clarke: "PNNL EST Global Wind 2013" |**Arent: PNNL EST Global Wind 2013** (1.7KB)|

Paper authored by Yabei Zhang, Steven J. Smith, G. Page Kyle, and Paul W. Stackhouse Jr.: "PNNL CSP Energy Policy Paper" |**Arent: PNNL CSP Energy Policy Paper** (1.2KB)|

Paper authored by Patrick Sullivan, Volker Krey, and Keywan Riahi: "Impacts of considering electric sector variability and reliability in the MESSAGE model" |**Impacts of Considering Electric Sector Variability and Reliability in the MESSAGE model**|

Paper authored by Falko Ueckerdt, Robert Brecha, Gunnar Luderer, Patrick Sullivan, Eva Schmid, Nico Bauer, and Diana Böttger: "Variable Renewable Energy in modeling climate change mitigation scenarios" |**Ueckerdt: Variable Renewable Energy in modeling climate change mitigation scenarios** (1.3KB)|

Bauer, Nico - "Climatic Change" |**Bauer: Climate Change** (554.7KB)|

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Wednesday, July 24

Session #2: Integrated Climate Change Impacts Assessment

(Organized by Gary Yohe, Rich Richels, Tony Janetos, Max Tavoni, and John Weyant)

Weyant, John - "Integrated Impacts Overview" |**Weyant: Integrated Impacts Overview 24-July** (64.9KB)|

Aldy, Joe; Fawcett, Allen; Ciscar, Juan-Carlos; Huq, Saleem; & Richmond, T.C. (panelists) - "What do Policy Makers want to know? How do we communicate it?"

Kunkel, Ken - "Climate Extremes Research" |**Kunkel: Climate Extremes Research (revised)** (7.2KB)|

Weubbles, Don - "Climate Change Research - Recent Findings & New Directions" | **Wuebbles: Climate Change Research** (3.6KB)|

Fawcett, Allen - "What Policy Makers Want to Know" | **Fawcett: What Policy Makers Want to Know** (7.3KB)|

Fawcett, Allen - "CIRA - Estimating Avoided Impacts from GHG Mitigation" | **Fawcett: CIRA - Estimating Avoided Impacts from GHG Mitigation** (6.6KB)|

Ciscar, Juan-Carlos - "Integrated Assessment of Climate Impacts in Europe" | **Ciscar: Integrated Assessment of Climate Impacts in Europe** | **Ciscar: Integrated Assessment of Climate Impacts in Europe** (2.6KB)|

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Thursday, July 25

Session #2 continued:

Yohe, Gary (moderator) - Introduction

Kolstad, Charles - "Valuing Market & Non-Market Impacts" | **Kolstad: Valuing Market & Non-Market Impacts** (1.2KB)|

Wilbanks, Tom - "Role of Adaptation" | **Wilbanks: Role of Adaptation** | **Wilbanks: Role of Adaptation** (5.5KB)|

Yohe, Gary & Anthoff, David (moderators) - Discussion

Mendelsohn, Robert - "Measuring Impacts" | **Mendelsohn: Measuring Impacts** (55.4KB)|

Janetos, Anthony - "Approaches to Modeling Impacts" | **Janetos: Approaches to Modeling Impacts** (4.0KB)|

Fisher-Vanden, Karen - "Approaches to Measuring Impacts" | **Fisher-Vanden: Approaches to Measuring Impacts** (311.7KB)|

Fujimori, Shinichiro - "Global Water Scarcity Assessment under Shared Socio-economic Pathways" | **Fujimori: Global Water Scarcity Assessment under Shared Socio-economic Pathways** (4.1KB)|

Winchester, Niven & Calvin, Kate (moderators) - Discussion

Rutherford, Thomas - "Modeling Catastrophes" | **Rutherford: Modeling Catastrophes** | **Rutherford: Modeling Catastrophes** (1.7KB)|

Richels, Richard - "Characterizing Impacts" | **Richels: Characterizing Impacts** (148.3KB)|

Solecki, William - "Real Impacts - Irene & Sandy" |**Solecki: Real Impacts - Irene & Sandy Solecki: Real Impacts - Irene & Sandy** (19.0KB)|

Richmond, T.C.; Ciscar, Juan-Carlos; & Huq, Saleem - "Take Home Messages for Policy Makers"

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Friday, July 26

Session #2 continued:

Richels, Richard (moderator) - Introduction

Waldhoff, Stephanie - "The social cost of carbon"

Rose, Steven - "Can USG SCC's guide climate policy?" |**Rose: USG SCC** (1.9KB)|

Yohe, Gary - "Pricing Carbon" |**Yohe: Pricing Carbon** (730.3KB)|

Moss, Richard - "The Importance of Scenarios in Climate Change Impacts Analyses" |**Moss: Importance of Scenarios in CC Impacts Analyses** (6.4KB)|

Aldy, Joe - ("a political economy" panelist)

Victor, David - ("a political economy" panelist)

Wiener, Jonathan - ("a political economy" panelist): "Political Economy on Climate Change Policy" |**Wiener: Thoughts on the Political Economy of Climate Change Policy** (568.8KB)|

Reilly, John - ("a political economy" panelist & discussion leader)

Sue Wing, Ian - "Climate Change Impacts - Connecting Science with IAM's" |**Sue Wing: Climate Change Impacts - Connecting Science with IAM's** (678.8KB)|

Calvin, Kate - ("Science Needs" panelist)

Reilly, John - "Needs from Science" |**Reilly #1: Needs from Science** (2.3KB)|

Wuebbles, Don & Kunkel, Ken - ("Science Needs" panelist & discussion leaders)

Edmonds, Jae - "Integrated Assessment Modeling - Where do we want to be in five years?" |**Edmonds: Integrated Assessment Modeling - Where do we want to be in five years?** (1.0KB)|

van Vuuren, Detlef - (IAM Panelist)

Reilly, John - "MIT's Integrated Global Systems Model" | **Reilly #2: MIT's Integrated Global Systems Model (IGSM)** (443.1KB)|

Rose, Steven - "MERGE Impacts" | **Rose: MERGE Impacts** (495.9KB)|

De Cian, Enrica - "IAM's Panel" | **De Cian: IAM's Panel** (945.3KB)|

Ciscar, Juan-Carlos - ("Representative Consumers" panelist)

Victor, David - ("Representative Consumers" panelist)

Pershing, Jonathan - ("Representative Consumers" panelist)

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Papers & readings from Session #2:

Article related to morning panel session | **Determining Benefits and Costs for Future Generations** (210.0KB)|

De Cian - "Are Cereals Globally in Trouble?" | **De Cian: Are Cereals Globally in Trouble?** (2.6KB)|

Fujimori, Shinichiro -

Two papers submitted by Toshihiko Masui: "Global Water Scarcity Assessment" | **Part 1** (1.5KB)| & | **Part 2** (7.4KB)|

Mendelsohn, Robert - "Economics of Adaptation to Climate Change in Developing Countries" | **Economics of Adaptation to Climate Change in Developing Countries**| (free registration required)

Solecki, William - "NPCC-Climate-Risk-Information-2013-Report" | **Solecki: NPCC-Climate-Risk-Information-2013-Report** (1.1KB)|

Wiener, Jonathan B & Richman, Barak D - "Mechanism Choice," chapter 11 in Farber, Daniel A & O'Connell, Anne Joseph, eds., *Research Handbook on Public Choice and Public Law* (Elgar, Edward 2010), pp. 363-396. | **Wiener: Mechanism Choice** (3.3KB)|

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Week Two | **Week One** |

The Agenda: |**Final Week One Agenda** (650.9KB)|

Presentations: |**July 31**| |**Session #5 Papers**| |**Aug 01 & 02 Presentations**|

Monday, July 29

Weyant, John - "Week Two Overview" |**Weyant: Week Two Overview** (64.9KB)|

Session #3: Uncertainty Analysis in Integrated Assessment Models

(Conveners: Ken Gillingham and Bill Nordhaus)

Nordhaus, Bill - "Overview of the Project"

Gillingham, Ken - "Major Steps over Last Year" |**Gillingham: Uncertainty Analysis in IAM's - Major Steps over the Last Year** (1.2KB)|

Rose, Steven - "Observations from MERGE uncertainty modeling, Round 2" |**Rose: Observations from MERGE uncertainty modeling round 2** (558.5KB)|

McJeon, Haewon - "MUP - Full Permutation Experiment with GCAM" |**McJeon: MUP - Full Permutation Experiment with GCAM** (7.5KB)|

Anthoff, David - "MUP-Fund Contribution" |**Anthoff: MUP Fund Contribution** (215.8KB)|

De Cian - "MUG-WITCH" |**De Cian: MUG-WITCH** (1.6KB)|

Nordhaus, Bill - "Review of parallel tracks for the project and suggested approach for developing response functions, with example using DICE"

Gillingham, Ken - "Approach for Developing PDF's" |**Gillingham: Uncertainty Analysis in IAM's - Approach for Development of PDF's** (499.8KB)|

Christensen, Peter - "MUP - Expert Elicitation of Long Run Economic Growth" |**Christensen: MUP - Expert Elicitation of Long Run Economic Growth** (184.2KB)|

Nordhaus, Bill - "Suggest approach for developing response function with example using the DICE model"

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Tuesday, July 30

Session #4: Workshop on Informing Risk Management Decisions in the Face of Deeply Uncertain Sea-Level Rise

Projections

(Co-organized by Klaus Keller and Rob Lempert)

Keller, Klaus - "Welcome, introduction, and overview of the decision-problems and analytical challenges." | **Keller: Overview of decision-problems & analytical challenges** (13.3KB)|

Pfeffer, Tad - "Threshold behavior in ice sheets - Physical origins of deep uncertainty" | **Pfeffer: Threshold behavior in ice sheets - Physical origins of deep uncertainty** (6.4KB)|

Urban, Nathan (updated) - "Characterizing the probability of tail area events in sea-level rise" | **Urban: Characterizing the probability of tail area events in sea-level rise** (8.5KB)|

Kopp, Robert - "Using the geological past to inform sea-level rise projections" | **Kopp: Using the geological past to inform sea-level rise projections** (8.9KB)|

Johnson, David - "Informing sea-level rise adaptation decisions under deep uncertainty"

Lempert, Robert - "Interplay between adaptation capacity, mitigation, and geoengineering" | **Lempert: Interplay between adaptation capacity, mitigation, & geoengineering** (16.7KB)|

van Vuuren, Detlef - "Representation of Geoengineering in Integrated Assessment Models" | **van Vuuren: Representation of Geoengineering in IAM's** (1.8KB)|

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Wednesday, July 31

Session #4 continued:

Anthoff, David - "Representation of Different Ethical Frameworks in Integrated Assessment Models" | **Anthoff: Representation of Different Ethical Frameworks in IAM's** (932.2KB)|

Morgan, Granger - "Beyond Cost-Benefit Analysis" | **Morgan: Beyond Cost Benefit Analysis** (16.8KB)|

Tuana, Nancy - "Coupled epistemic ethical issues in analyzing sea-level rise risk management strategies" | **Tuana: Coupled epistemic ethical issues in analyzing sea-level rise risk management strategies** (3.4KB)|

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Session #5: Scenarios for Climate Research and Assessment

(Organizing Committee: Jae Edmonds, Elmar Kriegler, Jerry Meehl, Richard Moss, and John Weyant)

Moss, Richard - "Overview of Workshop on Scenarios for Integrated IAM-ESM-IAV Research" | **Moss: Overview of Workshop on Scenarios for Integrated IAM-ESM-IAV Research** (1.9KB)|

Pershing, Jonathan - "Policy Drivers and Information Needs" | **Pershing: Policy Drivers and Information Needs** (1.0KB)|

Meehl, Jerry - "CMIP5 outcomes and CMIP6 Requirements" | **Meehl: CMIP5 outcomes & CMIP6 requirements** (263.6KB)|

Riahi, Keywan - "IAM SSP & SSP-RCP replications" | **Riahi: IAM SSP & SSP-RCP replications** (2.1KB)|

Hurtt, George - "Land use harmonization for CMIP5 and priorities for CMIP6" | **Hurtt: Land use harmonization for CMIP5 and priorities for CMIP6** (3.5KB)|

Waldhoff, Stephanie - "Initial SSP Land Use Results - Implications for Near-Term IAM Development" | **Waldhoff: Initial SSP Land Use Results** (2.4KB)|

Lawrence, Peter - "Experience with Land Use/Land Cover Exchange in CMIP5" | **Lawrence: Experience with Land Use / Land Cover Exchange in CMIP5** (2.8KB)|

Calvin, Kate - "Including Albedo Affects in IAM Scenarios" | **Calvin: Including Albedo Affects in IAM Scenarios** (3.6KB)|

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Click Here for Aug 01 & 02 Presentations

Papers & readings for Session #5:

Moss, Richard -

"A Strategy for Climate Change Stabilization Experiments" | **Moss: A Strategy for Climate Change Stabilization Experiments** (164.2KB)|

"The Representative Concentration Pathways - An Overview" | **Moss: The representative concentration pathways - an overview** (750.0KB)|

"The Next Generation of Scenarios for Climate Change Research & Assessment" | **Moss: The next generation of scenarios for climate change research & assessment** (624.6KB)|