

ENERGY MODELING FORUM

Workshop on Climate Change Impacts and Integrated Assessment (CCI/IA)

Snowmass, Colorado

July 21–August 2, 2013

Preliminary Agenda

(as of July 26, 2013)

Sunday, July 21

6:00 – 8:00 PM *Registration and Informal Reception for Attendees and all Guests
Gatehouse, Top of the Village*

Monday, July 22

8:00 AM *Continental Breakfast-Gatehouse, Top of the Village*

8:45 AM John Weyant, Stanford University: Welcome & Introduction

SESSION #1: MODELING RENEWABLE ENERGY INITIATIVE

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

(Speakers: Unless otherwise specified please aim to limit your remarks to about two thirds of the time allocation for your talk to allow ample time for discussion)

9:00 Doug Arent, NREL: General introduction
Background, Motivation and working examples

Resource potentials (9:30-12:30)

9:30 Patrick Sullivan, NREL: New wind potentials, and how they were developed?

10:10 Shinichiro Fujimori, NIES: Integrating new wind potentials at NIES

10:40 *Morning Break*

11:10 Patrick Sullivan, NREL: Crosscut - IAM results on resource variation

11:40 IAM discussant, Nico Bauer

11:50 General discussion about next steps to improve resource potentials for IAMs
moderator: Bas van Ruijven, NCAR

12:30 *Lunch*

VRRE integration (1:30pm – 5:15pm)

Bottom-Up Experts and Synthesis (1:30-2:30)

1:30 Paul Denholm, NREL: Storage and flexibility options for the integration of VRRE? (25min talk + 5min discussion).

2:00 Falko Ueckerdt, PIK: “The economics of variability and implications for IAMs” (25min + 5min discussion)

2:30 Afternoon Break

Top Down IAM View: (3:00-5:15)

3:00 Robert Pietzcker, PIK: Results from IAM low/high integration scenarios; Current integration mechanisms in IAMs: questionnaire replies (25min talk + 10min discussion)

3:35 Leon Clarke, JGCRI: IAM talk with some comments/content on integration

4:05 Paul Denholm, NREL: Bottom-Up Discussant on IAM VRRE integration

4:20 Discussion moderator: Leon Clarke, PNNL

Discussion of possible future integration constraints (15min)

Discussion of cost metrics for (and parameterization of) integration constraints (15min)

4:50 Next steps for VRRE Integration analysis – ADVANCE meeting in November

5:15 Adjourn

6:30 Opening Group Dinner

Tuesday, July 23

8:00 AM Continental Breakfast-Gatehouse, Top of the Village

Technology Characterization (9:00-10:45)

9:00 Nico Bauer, PIK: Crosscut – Competition and carbon: what determines wind deployment, what technology is the competitor, and what are the impacts on mitigation
(25min talk+20 min discussion)

9:45 Tom Wilson, EPRI: Technology Characterization: costs/other parameters

10:15 Morning Break

10:45 Ian Sue Wing, Boston University: Technology characterization In hybrid top-down, bottom-up models

11:15 Asami Miketa, IRENA: Importance of modeling renewables, a wide-angle perspective

12:00 Lunch

1:15 Group Discussion: Priorities, Reactions and Comments
John Weyant, Stanford University & Doug Arent, NREL (Moderators)

2:00 Next Steps for the Renewables Initiative – moderator: Doug Arent
Special Issue? Time frame. Next study operating committee.

3:00 Afternoon Break

3:30 Introduction to integrated climate change impacts session – John Weyant

4:30 Adjourn & Informal Networking

Wednesday, July 24

SESSION #2: INTEGRATED CLIMATE CHANGE IMPACTS ASSESSMENT

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

7:45 AM Continental Breakfast-Gatehouse, Top of the Village

8:30 Introduction – John Weyant, Stanford University (Moderator)

8:45 What do Policy Makers want to know? How do we communicate it?

Panel (15 Minute Introductory Statement by Each Panelist):

Joe Aldy, Harvard University
Allen Fawcett, USEPA
Juan-Carlos Ciscar, IPTS

9:45 Initial Discussion (moderated by John Weyant)

10:30 Morning Break

11:00 Continuation: What do Policy Makers want to know? How do we communicate it?

Saleem Huq, IIED & Independent University, Bangladesh
T.C. Richmond, Van Ness Feldman

11:40 Continued Discussion (still moderated by John Weyant)

12:30 Lunch

1:30 A scientific perspective on causes for concern (Basic Climate Science & Tundra, Sea level rise, acidification, etc.)

Ken Kunkel, NCSU

Don Wuebbles, University of Illinois

2:30 Discussion (led off by Erwan Monier, MIT)

3:00 Afternoon Break

3:30 The recent EPA analysis

Allen Fawcett, USEPA

4:15 The European Commission PESETA Studies

Juan-Carlos Ciscar, IPTS

4:45 Discussion

5:30 Adjourn & Informal Networking

Thursday, July 25

7:45 AM Continental Breakfast-Gatehouse, Top of the Village

8:30 AM Introduction - Gary Yohe, Wesleyan (Moderator)

8:45 Valuing market, nonmarket impacts

Charles Kolstad, Stanford University

9:30 The role of Adaptation

Tom Wilbanks, ORNL

10:00 Discussion (Led off by Gary Yohe, Wesleyan; David Anthoff, University of Michigan)

10:30 Morning Break

11:00 Approaches to modeling impacts (15 Minutes Each)

Rob Mendelsohn, Yale University

Anthony Janetos, Boston University

Karen Fisher-Vanden, Penn State University

Shinichiro Fujimori, NIES

12:00 Discussion (led off by Niven Winchester, MIT; Kate Calvin, JGCI)

12:30 *Lunch*

1:30 Some Additional Attempts to Model Impacts

- a. Modeling Catastrophes: Tom Rutherford, University of Wisconsin
- b. Characterizing Impacts: Richard Richels, EPRI

2:20 Discussion

2:50 *Afternoon Break*

3:10 Examples of impacts experiences, analyses and what we have learned

- a. Irene and Sandy
William Solecki, CCNY

3:50 Discussion

4:30 Take Home Messages for Policy Makers

T.C Richmond, Juan-Carlos Ciscar, Saleem Huq

5:00 Discussion

5:30 *Adjourn*

6:30 *Western BBQ for Attendees and ALL guests, Snowmass Rodeo Grounds*

Friday, July 26

7:30 AM *Continental Breakfast-Gatehouse, Top of the Village*

8:15 AM Introduction – Richard Richels, EPRI (Moderator)

8:30 The social cost of carbon
Stephanie Waldhoff, JGCRI

9:00 Discussion (Led off by Steve Rose, EPRI; Gary Yohe, Wesleyan)

10:00 *Morning Break*

10:30 The importance of scenarios in CC impacts analyses
Richard Moss, JGCRI

11:00 The following 4 panels are a review of all three days with a discussion of what we have learned relevant to informing policymakers:

a. A political economy panel

Joe Aldy, Harvard University
David Victor, U.C. San Diego
Jonathan Wiener, Duke University
Discussion (Led off by John Reilly, MIT)

12:00 *Lunch*

1:00

b. Science needs panel – Is the scientific community providing the information that is needed?

Ian Sue Wing, Boston University
Kate Calvin, JGCRI
John Reilly, MIT
Discussion (Led off by Don Wuebbles, University of Illinois; Ken Kunkel, NCSU)

2:00

c. IAM panel – What have we learned to inform the next round of modeling efforts – where we want to be in 5 years

Jae Edmonds & Leon Clarke, JGCRI
Detlef van Vuuren, PBL
John Reilly, MIT
Discussion

3:15 *Afternoon Break*

3:45 IAM panel (Continued)

Steve Rose, EPRI
Enrica De Cian, FEEM
Discussion

5:00

d. “Representative consumers” panel – Are we on track? If not, why not?

Juan-Carlos Ciscar, IPTS
David Victor, UCSD
Jonathan Pershing, USDOE

5:30 Discussion

6:00 *Adjourn & Informal Networking*