

International Transport Energy Modeling Workshop

October 2, 2014

(In Conjunction with DOE Workshop on Oct 1)

AGR Hall, Alumni Center, 530 Alumni Lane, Davis CA 95618

University of California, Davis

Organizers:

Institute of Transportation Studies (ITS), University of California, Davis;
Joint Global Change Research Institute, Pacific Northwest National Laboratory (PNNL);
International Institute for Applied Systems Analysis (IIASA);
International Council on Clean Transportation (ICCT);
International Energy Agency (IEA);
US Department of Energy (DOE)

Workshop Goals and Objectives

This workshop will provide an opportunity for the modelers to share the results of the comparison work so far, invite others to comment and share some of their own work, and identify areas for further research.

The goals of the workshop go beyond model comparisons to address questions such as:

- Compare and understand the transport models in question, their structures, key assumptions and data
- Compare a set of projections from these models and understand the similarities and differences, and the reasons for these (as related to model structure, assumptions, differences in definitions of scenarios, etc).
- Take “deep dives” on key topics such as vehicle ownership, mode shares, alternative fuel use, environmental/social cost projections (CO₂, pollutants), freight projections
- Compare projections on a regional basis (e.g. deep dives for U.S., China, EU)
- Reach conclusions on robust findings and policy implications of studies completed to date
- Identify new efforts, future comparisons, and other next steps that would be of value



Funding for these workshops is generously provided by



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RESEARCH INITIATIVES

October 1, 2014

8:15a–5:00p – U.S. DOE Vehicle Choice Modeling Workshop (optional, agenda below)

6:00p – Reception and dinner (Our House Restaurant in downtown Davis, 808 2nd Street)

International Transport Energy Modeling Workshop - October 2, 2014

8:30 – 9:00	Registration & Coffee
9:00 – 9:20	Welcome and Introduction (UC Davis) Overview of the topic, plan for the day
9:20 – 10:30	Session 1 – Introduction to each modeling group, their model, and projections (Chairpersons: <i>Sonia Yeh and Lew Fulton</i>) <ul style="list-style-type: none"> Four presentations (model structure and methodology of projections) (<i>Page Kyle, David McCollum, Joshua Miller, Pierpaolo Cazzola</i>)
10:30 – 10:45	Coffee Break
10:45 – 12:15	Session 2 – Deep dives on selected topics (Chairperson: <i>Jake Ward</i>) <ul style="list-style-type: none"> Comparison of models: base year & Global/regional Projections (<i>Gouri Shankar Mishra</i>) Regional Comparisons (e.g. China, India, US, Europe)(<i>Sonia Yeh, Paul Kishimoto</i>) Discussant: <i>Robert Spicer, BP; Paul Tanaka, ExxonMobil</i>
12:15 – 1:15	Lunch
1:15 – 3:00	Session 3 – Deep dives on selected topics (Chairperson: <i>Joshua Miller</i>) <ul style="list-style-type: none"> Car + 2W ownership and vehicle efficiency (<i>Lew Fulton, Pierpaolo Cazzola</i>) Freight scenario comparisons (<i>Page Kyle</i>) Discussant: <i>Rebecca Lindland, KAPSARC; John Maples, EIA (presentation on WEPS freight model)</i>
3:00 – 3:15	Coffee Break
3:15 – 4:00	Session 4 – Deep dives on selected topics (Chairperson: <i>Joan Ogden</i>) <ul style="list-style-type: none"> <i>Hiroyuki Kaneko, Nissan</i> Low carbon scenarios (<i>David McCollum</i>)
4:00 – 5:00	Session 5 – What can we learn from all this? Future research directions. (Chairperson: <i>Dan Sperling</i>) <ul style="list-style-type: none"> Panel discussion, audience discussion Discussant: <ul style="list-style-type: none"> <i>Jake Ward, DOE</i>
5:00 – 5:30	Identify next steps, wrap up (Chairpersons: <i>Lew Fulton and Sonia Yeh</i>)

U.S. DOE Vehicle Choice Modeling Workshop - October 1, 2014

(NOTE: THIS AGENDA IS FOR THE DAY BEFORE THE ITEM CONFERENCE, AT THE SAME LOCATION)

8:15 – 8:45	Registration & Coffee
8:45 – 9:20	Welcome and Introduction (<i>Jake Ward, U.S. DOE and Lew Fulton, UC Davis</i>) Welcome, introductions, and overview/goals of the day
9:20 – 10:40	Session 1 – Introduction to models, structure, and functionality (<i>Moderator: Jake Ward, U.S. DOE/EERE</i>) <ul style="list-style-type: none"> • Eight presentations (brief 10-minute high-impact overviews of model structure and functionality) (<i>Aaron Brooker, David Bunch, Changzheng Liu, Tom Stephens, Zhenhong Lin, John Maples, Dawn Manley, Alicia Birky</i>)
10:45 – 11:00	Coffee Break
11:00 – 12:30	Session 2 – Comparative scenario analysis (<i>Moderator: Tom Stephens, ANL; Panelists: Aaron Brooker, NREL, Changzheng Liu, ORNL</i>) <ul style="list-style-type: none"> • Baseline Scenario (“No technology/policy”) • Technology Success Scenario (presuming DOE technology targets are met) Invited Discussants: <ul style="list-style-type: none"> • <i>Dave McCollum, IIASA</i> • <i>Jeremy Michalek, CMU</i>
12:30 – 1:30	Lunch
1:30 – 3:00	Session 3 – Conceptualizing modeling approaches (<i>Moderator: Zhenhong Lin, ORNL; Panelists: Dawn Manley, Sandia National Lab; Alicia Birky</i>) <ul style="list-style-type: none"> • Vehicle characteristics (Range anxiety, make and model availability, incremental cost aversion/vehicle willingness-to-pay) • Infrastructure roll-out (EVSE, H2, endogenous/exogenous) • Uncertain inputs (VMT, fleets, household considerations) Invited Discussants: <ul style="list-style-type: none"> • <i>Joan Ogden, UC-Davis</i> • <i>Mike Nicholas, UC-Davis</i>
3:00 – 3:15	Coffee Break
3:15 – 4:45	Session 4 – Comparative Policy Analysis (and discussion of Model “fits”) (<i>Moderator: Jonathan Ford, SRA; Panelists: John Maples, U.S. DOE/EIA, Zhenhong Lin, ORNL</i>) <ul style="list-style-type: none"> • Policy tools (subsidies, infrastructure, non-cost) • Regulatory regimes (carbon tax, CAFE, ZEV) Invited Discussants: <ul style="list-style-type: none"> • <i>David Bunch, UC-Davis</i> • <i>Tim Olson, CEC</i>
4:45 – 5:00	Identify future research, next steps, wrap up (<i>Moderator: Jake Ward</i>)

Wi-Fi:

- Connect to wireless network: *moobilenet*
- Launch a web browser.
- Username: roadmap@ucd.edu
- Password: *kickoff*

Dropbox to access presentation slides, model documentation, and handout materials:

<https://www.dropbox.com/sh/2ob1basp2g0q7se/AAADVI78KzJAqQQaLMpVO7U5a?dl=0>

To reduce paper use, we will not provide printout materials at the conference