

US MARKAL-TIMES Symposium
U.S. EPA Office of Research and Development
Research Triangle Park, North Carolina
September 28-29, 2009
Agenda

Monday, September 28

1:00 p.m. – 1:15 p.m. **Arrival and Registration**

1:15 p.m. – 1:30 p.m. **Welcome and Opening Remarks**

U.S. EPA - Office of Research and Development (ORD)
International Resources Group

1:30 p.m. – 3:00 p.m. **National Modeling**

EPA MARKAL Model Databases: Update and Current Uses

Carol Shay, U.S. EPA - Office of Research and Development (ORD)
Tim Johnson, U.S. EPA - Office of Research and Development (ORD)

Optimal Strategies for Achieving the Objectives of the American Clean Energy and Security Act

Pat DeLaquil and Evelyn Wright, International Resources Group
Jacqueline Wong, Dan Lashof, Natural Resources Defense Council

Applications of MARKAL to Economic Impact Analyses

Julia Gamas, OAQPS
Dan Loughlin, U.S. EPA - Office of Research and Development (ORD)

3:00 p.m. – 3:30 p.m. **Break**

3:30 p.m. – 4:30 p.m. **National Modeling *continued***

Rethinking Demand Technology Representation in MARKAL

Joe DeCarolis, Samaneh Babaei, Jim Levis, Kevin Hunter
North Carolina State University

Implications of Unilateral United States Carbon Policy

Christopher Nichols, National Energy Technology Laboratory

4:30 p.m. – 5:00 p.m. **Discussion**

US MARKAL-TIMES Symposium: Agenda
September 28-29, 2009

Tuesday, September 29

8:30 a.m. – 8:45 a.m. Welcome and Registration

8:45 a.m. – 10:15 a.m. Modeling Techniques and Tools

MARKAL @ 30 - Legacy & Future

Gary Goldstein, International Resources Group

Running TIMES in Stochastic Way: Policy Alternatives Under Uncertainty

Oleg Lugovoy, Environmental Defense Fund

Alexander Golub, Environmental Defense Fund

Development of a post-processor for efficient processing of MARKAL ANT file output

Kevin Hunter, North Carolina State University

Joseph DeCarolis, North Carolina State University

10:15 a.m. – 10:45 a.m. Break

10:45 a.m. – 12:15 p.m. Modeling Techniques and Tools *continued*

Identifying Important Interrelationships Using Nested Parametric Analysis

Dan Loughlin, U.S. EPA - Office of Research and Development (ORD)

Projections of CO2 Emissions Trends and Reduction Potentials in Russia: Analysis on Reference Energy System RU-TIMES Model

Oleg Lugovoy, Environmental Defense Fund

Alexander Golub, Environmental Defense Fund

REMI-E3: The REMI PI⁺ Macroeconomic Policy Analysis Model Linked with MARKAL/TIMES

Billy Leung, Regional Economic Models, Inc.

12:15 p.m. – 1:15 p.m. Lunch

US MARKAL-TIMES Symposium: Agenda
September 28-29, 2009

Tuesday, September 29

1:15 p.m. – 2:45 p.m. State and Local Modeling

Multi-Pollutant Planning in the Northeast: A Sensitivity Analysis of Northeastern Transportation Policy

Jason Rudokas, NESCAUM

Large-Scale Bottom-up Demand Driven Computational Model of the US Energy Grid

Russell Winans, Cornell University

Modeling Optimal Transition Pathways to a Low Carbon Economy in California: Impacts of Advanced Vehicles and Fuels on the Energy System

Sonia Yeh, Chis Yang, Joan Ogden and David McCollum

Institute of Transportation Studies, University of California, Davis

2:45 p.m. – 3:15 p.m. Break

3:15 p.m. – 5:00 p.m. State and Local Modeling *continued*

Effectiveness of Carbon Mitigation Strategies at the Municipal Level: Application and Extension of MARKAL Models

Nagaraj Sivasubramaniam, Aaron Meyers, Stephen Hockley and Robert Sroufe
Duquesne University

Renewable Energy Development Infrastructure Project Colorado Climate Action Plan Scenario Analysis for Colorado Power Sector

Saeed G. Barhaghi

Department of Civil Engineering, University of Colorado Denver

Discussion