

## 4<sup>th</sup> Annual Trans-Atlantic INFRADAY Conference on Applied Infrastructure Modeling and Policy Analysis

### “Network Modeling and Infrastructure Policy for the Long-Term”

Friday, 05 November 2010

Resources for the Future  
1616 P Street NW, Washington, DC 20036 USA  
1<sup>st</sup> Floor Conference Center

### Program

7.30 – 8.30 h	<b>Registration &amp; Continental Breakfast</b>		
8.30 – 9.00 h	<b>Opening Address (Rooms A-C)</b> Steven A. Gabriel University of Maryland, Conference Chair Christian von Hirschhausen TU Berlin / DIW Berlin, Co-Conference Chair		
9.00 – 9.45 h	<b>Keynote Speech (Rooms A-C), Chair: Steven A. Gabriel</b> Prof. Asegeir Tomasgard (NTNU and SINTEF, Trondheim, Norway) <i>A Decision Support Framework for Infrastructure Investments in the Energy Sector</i>		
9.45 – 10.15 h	<b>Coffee Break</b>		
10.15 – 12.15 h	<b><u>Infrastructure (Room A)</u></b>  Chair: Deepak Sharma  Bilotskach (Univ. of California) <i>Political Economy of Infrastructure Investment: Evidence from the Economic Stimulus Airport Grants</i> Mandell, Nilsson (Swedish National Road and Transport Research Institute) <i>A Comparison of Unit Price and Fixed Price Contracts for Infrastructure Construction Projects</i> Oraro (Carnegie Mellon Univ.) <i>Pricing Open Access in Telecommunication Broadband Capacity Networks: An Option-Theoretic Evaluation</i> Sharma, Cui (Univ. of Maryland) <i>Optimal Pricing of Availability Payments in Public Private Partnerships</i> Diakov, Ruth (National Renewable Energy Laboratory), Goldsby, Sa (Sandia National Laboratory) <i>Macro-System Model: A Federated Object Model for Cross-Cutting Analysis of Hydrogen Production, Delivery, Consumption, and Associated Emissions</i>	<b><u>Modeling (Room B)</u></b>  Chair: Sauleh Siddiqui  Haftendorn, Holz (DIW Berlin), Hirschhausen (DIW Berlin, TU Berlin) <i>Future Coal Markets in the Light of Climate and National Policies – Scenarios with the COALMOD-World Mode</i> Chung, Weaver, Friesz (Pennsylvania State Univ.) <i>Optimal Investment Policy for Public Infrastructure, Environment, and Sustainability</i> Abrell, Weigt (TU Dresden) <i>Combining Energy Networks</i> Siddiqui, Avetisyan, Gabriel (Univ. of Maryland) <i>Using Schur's Decomposition and SOS Type 2 Variables to Solve Mathematical Programs with Equilibrium Constraints with an Application to the US Natural Gas Market</i> Goerner, Abrell (TU Dresden) <i>Electricity Transmission Network Expansion Planning – Model Development using Benders Decomposition and Application to the German High-Voltage System</i>	<b><u>Sustainability &amp; CO2 (Room C)</u></b>  Chair: Chiara Lo Prete  Wang, McCalley, Aliprantis, Brown, Gkritza, Somani (Iowa State Univ.) <i>Sustainability and Resiliency Measures of Long-Term Investment Planning for Integrated Energy and Transportation Infrastructures</i> Tanner (US Energy Information Administration) <i>Projecting the Scale of the Pipeline Network for CO2-EOR and its Implications for CCS Infrastructure Development</i> Eckhause (Univ. of Maryland), Herold (TU Berlin) <i>Optimal Funding Strategies for Carbon Capture and Storage Projects in the European Union – A Real Options Approach</i> Lo Prete, Norman (Johns Hopkins Univ.) <i>Rockets and Feathers in CO2-Power Markets? New Evidence from the Second Phase of the EU-ETS</i> Mendelevitch, Herold, Oei, Tissen (DIW Berlin, TU Berlin, TU Dresden) <i>CO2 Highways for Europe – Modelling Carbon Capture, Transport and Storage Infrastructure for Europe</i>
12.15 – 1.15 h	<b>Lunch</b>		
1.15 – 2.00 h	<b>Keynote Speech (Rooms A-C), Chair: Christian von Hirschhausen</b> Prof. Tim Brennan (University of Maryland at Baltimore County, Resources for the Future, USA) <i>Energy Efficiency and the Infrastructure: Policy Puzzles</i>		

2.00 – 4.00 h	<b><u>Electricity, Wind &amp; Solar</u></b> <b><u>(Room A)</u></b> <i>Chair: Ben Hobbs</i>  Ziegler, Weber (Univ. of Duisburg-Essen), Sunderkoetter (Univ. of Duisburg-Essen, Boston Consulting Group) <i>Welfare-Optimal Risk Diversification vs. Individual Portfolio Selection: Insights from Electricity Markets</i> Cook, McCuen (Univ. of Maryland) <i>The Hydrologic Response of Solar Farms</i> Mauch, Carvalho (Instituto Superior Técnico), Apt (Carnegie Mellon Univ.) <i>Can a Wind Farm with Storage Survive in the Day-Ahead Market?</i> Woerman, Paul, Palmer (Resources for the Future), Steinberg (NREL) <i>Cool and Clean: Climate and Renewable Electricity Policy Trade-Offs and Interactions</i>	<b><u>Energy Efficient Buildings</u></b> <b><u>(Room B)</u></b> <i>Chair: Kristen Markham</i>  Markham, Zhang (Univ. of Maryland) <i>Building Integrated Photovoltaics in Urban Infrastructure for More Sustainable Buildings</i> Elmer (TU Berlin) <i>Energy Efficiency in the Residential Building Sector – (Behavioral) Barriers and Policy Responses</i> Lu, Zhu, Cui (Univ. of Maryland) <i>Estimating Housing Market Equilibrium and Construction Emissions under Carbon Tax</i>	<b><u>Gas</u></b> <b><u>(Room C)</u></b> <i>Chair: Chalida U-tapao</i>  Avetisyan, Gabriel, Siddiqui (Univ. of Maryland) <i>Market Based Decision-Making for New Pipeline Construction for Natural Gas Supply</i> Massol (IFP School, City Univ.) <i>A Cost Function for the Natural Gas Transmission Industry: A Tribute to H.B. Chenery</i> U-tapao, Gabriel (Univ. of Maryland), Peot, Ramirez (DC Water and Sewer Authority) <i>An Optimization Model for Biogas Production at the Blue Plains AWTP, DC Water</i> Nielsen, Tomasgard (NTNU) <i>Investment Decisions in a Gas-Dependent Industry Cluster: A Real Option Approach</i>
4.00 – 4.30 h	<b>Break</b>		
4.30 – 5.15 h	<b>Keynote Speech</b> (Rooms A-C), <i>Chair: Steven A. Gabriel</i> Prof. Christian von Hirschhausen (TU Berlin, DIW Berlin, Germany) <i>Are 'Super Grids' really super?</i>		
5.15 – 6.00 h	<b>Reception (7<sup>th</sup> Floor)</b>		
6.30 h	<b>Conference Dinner</b> (Tabard Inn)		

#### Contact

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