



ATLANTIC
ENERGY
GROUP



FERC Workshop/9th Annual Trans-Atlantic Infraday (TAI)

Electricity Markets and Planning Energy Infrastructure and Systems

30 October 2015

Federal Energy Regulatory Commission (FERC)
888 First Street, NE Washington, DC 20426 USA
3rd Floor Conference Center

Final Program

Friday, 30 October 2015

8.45– 9.00 h	Welcome	Welcome
9.00 – 10.15 h	<p>Storage (Room 3MAB) <i>Chair:</i> Dennice Gayme, JHU</p> <p><i>Optimal portfolio investment and coordinated scheduling of an energy storage merchant in the energy imbalance model</i> Roderick Go, Anya Castillo, and Dennice F. Gayme (Johns Hopkins University) and Sonja Wogrin (Universidad Pontificia Comillas)</p> <p><i>A greenfield model to evaluate long-run power storage requirements for high shares of renewables</i> Alexander Zerrahn and Wolf-Peter Schill (DIW Berlin)</p> <p><i>Energy storage integration: Trade-offs between added services and profits</i> Anya Castillo and Dennice F. Gayme (Johns Hopkins University)</p>	<p>Wind Energy (Room 3M3) <i>Chair:</i> Anthony Paul, RfF</p> <p><i>Precautionary hedging of local power markets using renewables</i> Kyle Haemig (Central Municipal Power and Services)</p> <p><i>Has wind energy forecasting solved the challenge posed by intermittency? Evidence from the United Kingdom</i> Kevin Forbes and Ernest Zampelli (The Catholic University of America)</p> <p><i>Wind Farm optimization and application to offshore wind in New Jersey given installation and maintenance policies</i> Sanling Song, Frank A. Felder, Louis Bowers, Greg Seroka, Rich Dunk, Travis Miles, and David Coit (Rutgers University)</p>
10.15 – 10.30 h	Coffee Break	
10.:30-11.15 h	Plenary Speaker: Christian von Hirschhausen, Berlin Institute of Technology / DIW Berlin "Low-Carbon Energy Transformation in Europe and Germany, and Some Unintended Consequences"	
11.15 – 12.30 h	<p>Natural Gas (Room 3MAB) <i>Chair:</i> Steven Gabriel, University of Maryland</p> <p><i>A natural gas model for North America: Impact of cross border flows of natural gas with Mexico</i> Felipe Feijoo, Daniel Huppmann, and Sauleh Siddiqui (Johns Hopkins University)</p> <p><i>Rate-of-return regulation to attract infrastructure investment in a LDC: Insights for natural gas pipeline planning in Mozambique</i> Florian Perrotton and Olivier Massol (IFP Energies Nouvelles & IFP School and City University)</p> <p><i>A rolling-horizon, MCP approach to Nash-Cournot games in natural gas</i> Steven A. Gabriel (University of Maryland), Mel Devine (Economic and Social Research Institute and Trinity College Dublin) and Seksun Moryadee (Royal Thai Military)</p>	<p>Carbon Capture and Coal (Room 3M3) <i>Chair:</i> Roman Mendelevitch, DIW Berlin</p> <p><i>Optimizing incentives for early adoption of carbon capture in the US</i> Jeremy Eckhause (RAND Corp.), Olivier Massol (IFP Energies Nouvelles), and Albert Banal-Estano (Universitat Pompeu Fabra)</p> <p><i>The impact of policy measures on future power generation portfolio and infrastructure – a combined electricity and CCTS investment and dispatch model (ELCO)</i> Pao-Yu Oei and Roman Mendelevitch (Berlin University of Technology))</p> <p><i>Coal taxes for emissions reduction and market rents: A rationale for major exporters?</i> Roman Mendelevitch and Phillip M. Richter (DIW Berlin) and Frank Jotzo (Australian National University)</p>
12.30 – 1.30 h	Lunch (On Own)	



<p>1.30 – 2.45 h</p>	<p><u>Fuel Supply & Trade</u> (Room 3MAB) <i>Chair:</i> Fred Murphy, KAPSARC</p> <p><i>Analyzing United States Crude Flows</i> Olufolajimi Okes, Daniel Huppman, Max Marshall, and Sauleh Siddiqui (Johns Hopkins University)</p> <p><i>Policy analysis of global wood chips trade using spatial equilibrium model</i> Wei Jiang, Sauleh Siddiqui, and Stephanie Searle (Johns Hopkins University)</p> <p><i>Economic impacts of debottlenecking congestion in the Chinese coal supply chain</i> Bertrand Rioux, Philipp Galkin, Frederic Murphy, and Axel Pierru (KAPSARC)</p>	<p><u>Electricity Markets: Generation & Transmission Investment</u> (Room 3M3) <i>Chair:</i> Ramteen Sioshansi, OSU</p> <p><i>Using stochastic equilibrium models with endogenous probabilities to examine generation capacity investment</i> Mel T. Devine and Muireann A. Lynch (Economic and Social Research Institute and Trinity College Dublin)</p> <p><i>Market capacity definitions and generation adequacy</i> Cynthia Bothwell and Benjamin F. Hobbs (Johns Hopkins University)</p> <p><i>A progressive hedging approach to multistage stochastic generation and transmission investment planning</i> Ramteen Sioshansi and Yixian Liu (The Ohio State University)</p>
<p>2.45 – 3.00 h</p>	<p>Coffee Break</p>	
<p>3.00 – 4.40 h</p>	<p><u>Electricity Markets:</u> (Room 3MAB) <i>Chair:</i> Felix Musgens, Brandenburg U of T</p> <p><i>Optimal balancing trading for renewables – the role of net demand</i> Muireann A. Lynch (Economic and Social Research Institute, Dublin, Ireland)</p> <p><i>Cost-minimal investments into generation capacities in Europe given a cross-country renewables policy</i> Clemens Gerbaulet, Casimir Lorenz, Friedrich Kunz, and Christian von Hirschhausen (TU Berlin / DIW Berlin)</p> <p><i>Can you use electricity transmission usage fees to reduce demand peaks?</i> Harry van der Weijde (The University of Edinburgh)</p> <p><i>The impact of intermittent renewable energy sources on wholesale electricity prices</i> Felix Musgens and Thomas Mobius (Brandenburg University of Technology)</p>	<p><u>Market Modeling Advancements</u> (Room 3M3) <i>Chair:</i> Richard O'Neill, FERC</p> <p><i>Computational modeling for resilient electricity-gas infrastructures</i> Milos Cvetkovic, Neha Nandakumar, Dylan Shiltz, and Anuradha Annaswamy (Massachusetts Institute of Technology)</p> <p><i>Dual pricing algorithm for cost allocation in non-convex electricity markets</i> Richard O'Neill (FERC), Robin Broder Hytowitz, Anya Castillo and Brent Eldridge (FERC and Johns Hopkins University)</p> <p><i>An RLT approach for solving the binary-constrained mixed linear complementarity problem</i> Miguel F. Anjos (Polytechnique Montreal), Franklin Djeumou Fomeni, and Steven A. Gabriel (University of Maryland)</p> <p><i>An iterative approach to estimating marginal line losses for LMP Calculation</i> Brent Eldridge & Anya Castillo (FERC and Johns Hopkins University) and Richard O'Neill (FERC)</p>

Dinner: At restaurant near FERC at 5:30 p.m. (Exact location TBA)