

ATLANTIC ENERGY GROUP







FERC Workshop/Trans-Atlantic Infraday (TAI)

Electricity Markets and Planning

6 November 2014

Energy Infrastructure and Systems

7 November 2014

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

Revised Preliminary Program

Thursday, 6 November 2014

12.30 – 12.45 h	Welcome: Rich	ard O'Neill, FERC			
12.45 – 1.30 h	Plenary Speaker: Miguel F. Anjos, Polytechnique Montréal				
	"Bilateral Contract Optimization in Power Markets"				
1.30 – 2.15 h	Demand Management (Room A) Chair. Ben Hobbs, Johns Hopkins University Meng Shen and Qingbin Cui, University of Maryland Personality Factors for Behavior Driven Energy Efficiency Li Zhao and Benjamin Hobbs, Johns Hopkins University Determinants of the Effectiveness of Residential Electricity Demand Response Programs: A California Case Study	Electricity Markets (Room B) Chair: Janne Kettunen, George Washington University Marie Hyland, Economic and Social Research Institute and Trinity College Dublin, Ireland Restructuring European electricity markets - a panel data analysis Janne Kettunen (George Washington University) and Derek W. Bunn (London Business School) Risk Induced Path Dependency in Resource Acquisition			
2:30 – 2.45 h	Coffee Break				
2.45 – 4.45 h	<u>Demand Management</u> (Room A)	Electricity Markets (Room B)			
	Chair: Alfredo Garcia, University of Virginia	Chair: Dan Shawhan, Resources for the Future			
	Qianli Deng,Qingbin Cui(University of Maryland) and Xianglin Jiang (Fudan University) A simulation-based decision model for designing contract period in energy performance contracting	Robin Broder Hytowitz and Benjamin Hobbs, Johns Hopkins University Challenges for Balancing Area Coordination Considering High Wind Penetration			
	Åsa Grytli Tveten, Iliana Ilieva, and Torjus Folsland Bolkesjø, <i>Norwegian University of Life Sciences</i> Electricity Market Impacts of Increased Demand Flexibility Enabled by Smart Grid	Pradyumna C. Bhagwat, Laurens J. de Vries (<i>Delft University of Technology</i>), and Benjamin Hobbs (<i>Johns Hopkins University</i>) Seams Issues in Capacity Markets			
	S. Jalal Kazempour, Venkat Prava, and Benjamin Hobbs, Johns Hopkins University The Value of Demand Response in Wind-integrated Electricity Market: A Stochastic Equilibrium Model	Mark B. Lively, Utility Economic Engineers Did Imperialism Kill Micro-Grids? Is the Regulatory Mindse Preventing Electrification?			
	Alfredo Garcia, University of Virginia Mechanism Design for Demand Aggregation	Alberto J. Lamadrid, Daniel L. Shawhan, Yujia Zhu, Daniel J. Tylavsky, Carlos E. Murillo-Sanchez, Andrew Kindle, Ray D. Zimmerman, Cornell University Cost-Benefit Analysis of Five Power System Changes Using Hybrid Stochastic-Robust Optimized Dispatch of Storage, Generation, and Loads			

Friday, 7 November 2014 (Next Page)

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Note the related event: Saturday, 8 November 2014 Hiking trip (details TBD)

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Friday, 7 Novemb							
9:00– 10.30 h	Environment and Carbon (Room A)	Wind Energy (Room B)					
	Chair: Anthony Paul, Resources for the Future	Chair: Valeria Di Cosmo, Trinity Colleage Dublin					
	Olivier Massol, Stéphane Tchung-Ming(IFP Énergies Nouvelles) Albert Banal-Estañol (City University London) Joining the CCS Club! The Economics of CO2 Pipeline Projects	Ali Daraeepour (Duke University), Jalal Kazempour(Johns Hopkins University), Antonio Conejo (Ohio State University) and Dalia Patino-Echeverri (Duke University) Wind Power Integration and Consumer Behavior: a Complementarity Approach					
	Xiaoyu Liu and Qingbin Cui, <i>University of Maryland</i> Assessing the Impacts of Preferential Procurement on Low-Carbon Building	Ian B. Page, University of Maryland The Effect of Wind Power on Market Conditions					
	Sophie Pan, Anthony Paul, and Dallas Burtraw, Resources for the Future A Perspective on the Clean Power Plan: Rate Versus	Valeria Di Cosmo and Laura Malaguzzi Valeri, <i>Trinity</i> College Dublin The Effect of Wind on Wholesale Electricity Prices: the					
40.00 40.45 h	Mass and the Covered Sector	Case of Ireland					
10.30 – 10.45 h		e Break					
10:45-11:30 h	Plenary Speaker: Ross Baldick, <i>University of Texas</i> "Electric vehicle charging and transmission and distribution infrastructure"						
11.30 – 12.30 h							
11.30 – 12.30 11	(Room A)	Electricity Market Restructuring (Room B)					
	Chair. Emily Fisher, Lawrence Berkeley National Laboratory	Chair: Frank A. Felder, Rutgers University					
	William Booth, EIA The EIA-930 Survey Hourly Electric Operating Data	Frank A. Felder, Gene X. Shan and David W. Coit, Rutgers University Multi-objective Framework for Evaluating Resiliency					
	Jagjit Singh, Open Access Technology International, Inc.	Measures for Electric Power Systems					
	Historical Interface Loading Analysis for Schedule and Actual flows on the Eastern Interconnection	Gene X. Shan, Frank A. Felder, and David Coit, <i>Rutgers University</i>					
		Role of Governance in Independent Decision Making for Building Electric Infrastructure Resilience					
12.30 – 1.30 h	Lunch						
1.30– 3:00 h	Transportation (Room A)	Transmission (Room B)					
	Chair: Sauleh Siddiqui, Johns Hopkins University	Chair: Christian von Hirschhausen, DIW Berlin, TU Berlin					
	William Komiss, CNA	Anya Castillo (FERC, Johns Hopkins U.), Paula Lipka (U.					
	Navy Alternative Fuel Vehicle James C. Jones, David J. Lovell and Michael O.	California Berkeley), Jean-Paul Watson (Sandia National Laboratories), Richard P. O'Neill (FERC)					
	Ball, University of Maryland The Reduction of Fuel Burn in Terminal Airspace through	The Current-Voltage (IV) Successive Linear Program of the ACOPF					
	En-Route Speed Control in the Presence of Demand Uncertainty	Daniel Huppmann, <i>DIW Berlin</i>					
	,	Network expansion to mitigate market power					
	Sauleh Siddiqui ,Johns Hopkins University Equilibrium Model of the Biofuel Market to Determine Optimal Volumes for the Renewable Fuel Standard	Jonas Egerer, Wolf Schill (DIW Berlin), presented by Christian von Hirschhausen (DIW Berlin, and TU Berlin)					
		Optimal Infrastructure Investments for Renewable Energy Integration in Germany					
3:00 – 3.15 h	Coffee Break						
3.15 – 4:45 h	New Energy Technologies (Room A)	Market Equilibrium Modeling (Room B)					
	Chair: Dalia Patino, Duke University	Chair: Steven A. Gabriel, University of Maryland					
	Rubenka Bandyopadhyay and Dalia Patino, <i>Duke Univ.</i> Flexible Operation of Post Combusion Amine-Based CC	Mel Devine (<i>University of Limerick</i>), Steven Gabriel, and Seksun Moryadee (<i>University of Maryland</i>)					
	with a Colocated Wind Farm Bandar Algahtani and Dalia Patino-Echeverri, Duke	A Rolling Optimization Approach for Stochastic MCPs with Endogenous Uncertainty: Application to Gas Markets					
	University Integrated Solar Combined Cycle (ISCC) Power Plants:	Andrew J. Blohm, Steven A. Gabriel (University of Maryland) and Jeremy Lin(PJM)					
	An Alternative to Integrate Solar Energy in Current Power Systems.	Formulation of a Rolling Optimization Approach for Stochastic MCPs with Endogenous Uncertainty: Application to Electricity Markets					
	Mark D. Bryfogle, Anlage Distributed Generation Application of Internal Combustion Free Piston	Seksun Moryadee, Steven Gabriel (University of Maryland) and Francois Rehulka (EDF)					
	Generation in the Micro Distributed Generation and Combined Heat and Power Market	The Influence of The Panama Canal on Global Gas Trade					