Advanced Workshop in Regulation and Competition

27th Annual Western Conference

Hyatt Regency, Monterey, California, on June 25-27, 2014

The Conference features some of the latest developments in the network industries, especially energy, including:

- ➢ Deregulation
- Market Structure
- Policy and Regulatory Issues
- Environmental Policy and GHG
- Telecommunications and Water
- Pricing and Demand Response
- Capacity and Reliability

Who should attend:

- Industry Economists, Consultants and Attorneys
- Marketing and Regulatory Managers
- Regulatory Commission Staff

Dinner Speaker: Hal R.Varian, Google, Inc.



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CENTER FOR RESEARCH IN REGULATED INDUSTRIES

The *Center for Research in Regulated Industries*, located at Rutgers University, aims to further study of regulation in economics, finance, and institutions. Its publications, seminars, workshop, and courses make available the latest advances to academics, managers, and regulatory commission staff. The Center has over thirty five years of experience providing research, instruction, conferences, courses, seminars, and workshops in economics of network industries. The Center's *Journal of Regulatory Economics* is an international scholarly bi-monthly publication intended to provide a forum for the highest quality research in regulatory economics. Other research from the Center's programs has been published in the book series *Topics in Regulatory Economics and Policy*.

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WEDNESDA	Y, JUNE 25, 2014		,,	
2:00 - 4:00	Registration		MGB Terrace	
4:00 - 6:00	Welcome to Conference: Michael A. Crew		PacificRoom	
	Chao and Robert Wilson: A Dynamic Economic Fra	mework for Transmission Planning Under Uncer	0	
	ruqui and Charlie Gibbons: The Application of Qu		lanty	
	o, T. Randolph Beard and Jeffrey T. Macher: Mar		Exit, Voice and	
Loyalty Ur	nder Increasing Competition			
6:00 - 7:00	Cocktail Hour		MGB Terrace	
7:00 - 9:00	Dinner & Keynote Speech: Hal R. Varian, Chief Economist, Google, Inc.		Beach Room	
9:00 - 10:00	Reception		MGB Terrace	
THURSDAY	, JUNE 26, 2014			
8:00 - 9:40	Concurrent Sessions			
RESIDEN	TIAL RATES Grove	POWER MARKETS I	Pacific	
Chair: Bob	•	Chair: Gene Meehan		
	s: Fred Curry, Carl Danner, Scott Murtishaw	Discussants: Robert Lane		
	vacki and Andre Ramirez: Affordability ions for Utility Residential Rate-Making	Matt Arenchild: FERC's Market Power Review – Recent Developments and their Impact on Electric Markets		
	lik: Residential Demand Charges – A Rate Design			
Revolution?		Kevin Woodruff : Implications of Possible FERC Pre-Emption for Electric Capacity Costs in California		
	IcCann: Appropriate Ratemaking Treatment to	Toru Hattori : Retail Competition and Electric	city Prices for	
Encourage	Customers' Energy Management.	Residential Customers in the US		
9:40 - 10:00	Coffee Break		MGB Terrace	
10:00 - 11:40	Concurrent Sessions			
TARIFFS	& PRICING Grove	SOLAR/STORAGE	Pacific	
Chair: Ngu		Chair: Charlotte Chitadje		
	s: Neil Lesssem	Discussants: Robert Earle, Michael Alexander Robert Entriken, C. Roe, and N. Taheri : Analysis of Automatic Control Data for Storage Operations Cynthia Fang : Revisiting Rate Structure Reform to Meet a Low Carbon Future Udi Helman : Economic Valuation of Large-Scale Solar Plants		
	vin and Elise Torres: Can Arizona's Success With se Rates Be Replicated in California?			
	ill: Designing Distributed Generation Tariffs Well:			
	ensation in a Time of Transition			
	xuk & Joanna Hsu: Potential Solutions to Achieve			
Distributed	I Generation Policy Objectives			
11:40 - 1:00	Lunch Break			
1:00 - 2:30	Concurrent Sessions			
DSM	Grove	UTILITY BUSINESS MODEL	Pacific	
	nahem Spiegel	Chair: Anna Ching		
	s: Richard Aslin	Discussants: Karl McDermot Michael Crew and Eric Woychik: Developin	A Now Pusinoss	
	rruqui and Neil Lessem: Demand Side	Models for Utilities with Renewables, Conserv	0	
Management – An Asian Experiment Richard Song : Direct Load Control Diagnostics through		Smart Grid	ution und the	
AMI Data Armando Levy: Estimating Program Impacts in the Presence		Philip Hanser and Kai van Horn : The Repurposed Electric Distribution Utility		
				of Demand
2:30 - 4:00	Concurrent Sessions			
WATER	Grove	POWER MARKETS II	Pacific	
Chair: Fred Curry		Chair: Tracy Fok		
	s: James Fine, Richard McCann rmak and Robert Patrick: The Energy,	Discussants: Kevin Woodruff, Robert Lane Amparo Nieto: Generation Capacity Markets	Put to the Test -	
	Environmental Regulation Nexus – Incentives	New Approaches to Meet Evolving Reliabilit		
	Bads, and Quality	Todd Schatzki: Alternatives for Addressing		
	rew and Rami Kahlon: Efficient Water	Concerns from Shifting Resource Mixes	-	
Pricing in (California	Paul Nelson: Price Discrimination in the CA	ISO's Energy	

Paul Nelson: Price Discrimination in the CAISO's Energy Imbalance Market (EIM) - Impacts of Economic Output and Equity

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Pricing in California Mark Martinez, Laurene Park and Eric Woychik: Taking the Plunge – Engaging the Water Sector as a

Preferred Resource to Meet Local Energy Needs

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FRIDAT, JUI	NEZI, ZUI4	
8:45 - 10:40	Concurrent Sessions	
GHG		Grove
Chair: Rami	i Kahlon	
Discussants	s: Carl Silsbee, James Fine	
Amelia Bla	nke and Erdal Kara: Integration of Electronic	ctricity
Prices in the	e Western U.S – Measuring the Impact of	f
California's	s Greenhouse Gas Cap-and-Trade Program	m
Cliff Rochl	lin, Rod Hite and Jeff Huang: CHP and	the
Greening of	f the Electric Grid	
Samuel Wa	ade, Stefanie Tanenhaus, and Ray Will	iams:
Comparison	n of Greenhouse Gas Abatement Costs in	
California's	s Transportation Sector through 2030?	
10:40 - 11:00	Coffee Break	
11:00 - 12:45	Concurrent Sessions	
RENEWA	BLE INTEGRATION	Grove
Chair: Josep	ph Abhuliman	

Discussants: Robert Earle, Scott Murtishaw Robert Entriken, Eamonn Lannoye, Edward Lo, Russ Philbrick, and Taiyou Yong: Stochastic Reserve Determination - Case Study with the California ISO Tim Mount, Wooyoung Jeon, and Jung Youn Mo: Modeling Stochastic Wind Generation and the Implications for System Costs

Aidan Tuohy and Eamonn Lannoye: Power System Flexibility Assessment Metrics

12:45-12:50 Concluding Remarks-Michael A. Crew VALUATION IMPACTS

Chair: Carl Danner Discussants: Carl Peterson,

Luke Nickerman and Richard Aslin: Mitigating the Potential for Stranding "To Code" Energy Efficiency Savings Bishu Chatterjee and Carlos Penikis: How Effective is the Communication between the Regulators and the Market in Assessing Utility Safety Violations?

Michael Vilbert, Joseph Wharton, Charles Gibbons, and Melanie Rosenberg: Empirical Analysis of the Impact of Decoupling on the Cost of Capital of Electric Utilities

MGB Terrace

COMPLIANCE COST

Pacific

Pacific

Chair: Donna Wagoner Discussants: Fred Curry, Carl Peterson, Catherine Elder Stephen St. Marie: The Total Cost of Energy-Related Household Services - It is Not Just What is On the Electric and Gas Bills Don Wagenet: Environmental Regulatory Reform -Compliance Costs, Benefits, and Recommended Reforms Matthews Williams: Can Utilities Afford the Proliferation of Conservation and/or Renewable Energy?

SPEAKERS DISCUSSANTS & CHAIRS

- Joseph Abhuliman, Supervisor, ORA, Californial Public Utilities Commission Michael Alexander, Manager, Energy Projects, Southern California Edison Matthew Arenchild, Director, Navigant Consulting, Inc. Richard Aslin, Principal Strategic Analyst, PG&E Amelia Blanke, Senior Market Monitoring Analyst, CAISO Hung-Po Chao, Director, Market Strategy and Analysis, ISO New England, Inc. Bishu Chatterjee, California Public Utilities Commission Janie M. Chermak, Professor and Chair, University of New Mexico Anna Ching, Project Manager, Regulatory Policy Strategy, Southern California Edison Charlotte Chitadje, Water Division, California Public Utilities Commission Michael A. Crew, CRRI Professor of Regulatory Economics, Rutgers University Fred Curry, Consultant, Submission Solutions Carl Danner, Chief Internal Auditor, California Public Utilities Commission Robert Earle, Vice President, Analysis Group Catherine Elder, Practice Director, Energy Resource Economics, Aspen Environment Group Robert Entriken, Senior Manager, Policy Analysis, EPRI Cynthia Fang, Electric Rates Manager, San Diego Gas & Electric Ahmad Faruqui, Principal, The Brattle Group James Fine, Senior Economist, Environmental Defense Fund Tracy Fok, Water Division, California Public Utilities Commission Russ Garwacki, Director, Pricing Design and Research, Southern California Edison Toru Hattori, Economist, Central Research Institute of Electric Power Industry Udi Helman, Consultant Rvan Hledik, Senior Associate, The Brattle Group Paul Hunt, Director of Regulatory Finance, Economics, and Risk Operations, Southern California Edison Rami Kahlon, Director of Water Division, , California Public Utilities Commission Janos Kakuk, Principal Manager, Market Strategy and Resource Planning, Southern California Edison Erdal Kara, Senior Market Monitoring Analyst, CAISO Bob Kelly, Vice President Regulatory Affairs, Suburban Water Systems Justin Kubassek, Southern California Edison Robert Lane, Director, San Diego Gas & Electric Neil Lessem, Consultant, The Brattle Group Robert Levin, Senior Analyst, Energy Division, California Public Utilities Commission
- Armando Levy, Principal, The Brattle Group Carl Linvill, Director, Energy Planning and Analysis, The Regulatory Assistance Project

Mark S. Martinez, Customer Programs and Services, Southern California Edison

John Mayo, Professor of Economics, Business and Public Policy, Georgetown University

Richard McCann, Energy Resource Analysis, Aspen Environmental Group Karl A. McDermott, Ameren Professor of Government and Business, University of Illinois-Springfield & Special Consultant, NERA Economic Consulting

Gene Meehan, Senior Vice President, NERA Economic Consulting

Timothy D. Mount, Professor, Cornell University

Paul Nelson, Market Design Manager, Southern California Edison

Scott Murtishaw, Energy Advisor to President Michael Peevey

Amparo Nieto, Vice President, NERA Economic Consulting

Robert H. Patrick, Associate Professor, Rutgers University

Carl Peterson, Assistant Professor, University of Illinois-Springfield & Special Consultant, NERA Economic Consulting

Nguyen Quan, Manager - Regulatory Affairs Golden State Water

Cliff Rochlin, Market Advisor, Southern California Gas Company

Todd Schatzki, Vice President, Analysis Group

Carl Silsbee, Principal Manager, Resource Economics, Southern California Edision Richard Song, Southern California Edison

- Menahem Spiegel, Professor, Finance and Economics, Rutgers University
- Stephen St. Marie, Policy & Planning Division, California Public Utilities Commission
- Elise Torres, Regulatory Analyst, ORA, California Public Utilities Commission Aidan Tuohy, Senior Scientist, EPRI
- Kai Van Horn, Summer Associate, Principal, The Brattle Group
- Michael Vilbert, Principal, The Brattle Group
- Sam Wade, Principle, Long Term Energy Policy, PG&E
- Don Wagenet, Associate Director, Energy, Navigant
- Donna Wagoner, Program and Project Supervisor, California Public Utilities Commission
- Joe Wharton, Principal, The Brattle Group
- Matthews Williams, Jr, Consultant
- Ray Williams, Director, Long Term Energy Policy, PG&E
- Kevin Woodruff, Principal, Woodruff Expert Services

Eric C. Woychik, Executive Consultant and Principal, Strategy Integration, LLC

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ORGANIZING COMMITTEE	CONTACTING CRRI
Matthew Arenchild (Navigant Consulting, Inc.) Sandra Bennett (AEP Southwestern Electric Power Company) Michael A. Crew (Rutgers University) Fred Curry (Submission Solutions) Carl Danner California Public Utilities Commission) Robert Earle (Analysis Group) Robert Entriken (EPRI) Ahmad Faruqui (Brattle Group) Rami Kahlon (California Public Utilities Commission) Dennis Keane (Pacific Gas & Electric) Carl B. Linvill (Aspen Environmental Group) Amparo Nieto (NERA Economic Consulting) Cliff Rochlin (Southern California Edison) Kevin D. Woodruff (Woodruff Expert Services)	Michael A. Crew, Director – CRRI Home Page: http://www.business.rutgers.edu/CRRI Address: Center for Research in Regulated Industries Rutgers Business School, Rutgers University, 1 Washington Park, Room 1104 Newark, NJ 07102-1897 Phone: 973-353-5761 Fax: 973-353-1348 Email: <u>mcrew@business.rutgers.edu</u> (Michael Crew) <u>crri@business.rutgers.edu</u> (CRRI Admin Asst)
HOTEL RESERVATIONSSufficient Rooms are reserved at the Hyatt Regency Monterey forall of the Conference participants. Reservations should bereceived by June 2, 2014. Hotel reservation can be made by usingthe following Passkey Link:https://resweb.passkey.com/go/RutgersUniversityHyatt Regency Monterey1 Golf Course RoadMonterey, California, 93940, USA1-888-421-1442If you are not making reservations through the link above pleaseidentify yourself as being held under the group block: RutgersUniversity CRRI Program.	 REGISTRATION INFORMATION To Register: Please complete and return the form to CRRI. Registrations are accepted by mail, email, fax, and telephone. Please confirm telephone registrations by sending in a completed and signed registration form. The deadline for registrations is May 15, 2014. Registrations received after May 15, 2014 will be admitted on a space available basis. Volume discount: Second and subsequent applications received in the same envelope, fax, email, or made at the same time by phone will receive a 5% volume discount. Payment Information: Make checks payable to "Rutgers University" and mail to the attention of at the above address. Fees include prescribed learning materials, dinner on Wednesday night, June 25, 2014, all receptions and coffee breaks, but do not include lodging and other meals. The government registration fee is available for government employees.
REGISTRATION FORM: 27th Annual Western Conference Name Title:	
Company:	
Complete Address:	
Telephone:	Fax:

Email:

Billing Information:

Payment enclosed \$1,100 U.S. Dollar

____ Send invoice to participant at above address.

___ Send invoice to_____

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CANCELLATION POLICY: Until May 2, 2014 cancellation is allowed without penalty and refunds will be allowed in full. After this date, the indicated fee is due in full whether or not the participant actually attends. Substitutions may be made at any time.

Signature of Participant: _____

GOVERNMENT RATE: Government employees may

____I would like to apply for the govt rate of \$590

apply for reduced enrollment fees.