

Advanced Workshop in Regulation and Competition
30th Annual Western Conference

Hyatt Regency, Monterey, California on June 28-30, 2017

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: Catherine Sandoval, former
Commissioner – California Public Utilities Commission

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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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WEDNESDAY, JUNE 28, 2017

2:00 - 4:00	Registration		<i>Monterey Terrace</i>
4:00 – 6:00	Welcome to Conference: Victor Glass		<i>Grove Room</i>
	William E. Kovacic: Academic Hubs – The Intellectual Infrastructure of Economic Regulation		
	Tim Brennan: Michael Crew’s Contributions to the CRRRI Conferences		
	Karl McDermott: The Paths Not Taken – Alternatives to “Traditional” Cost Based Regulation in the Pre-Hope Era		
6:00 – 7:00	Cocktail Hour		<i>Monterey Terrace</i>
7:00 – 9:00	Dinner & Keynote Speech: Catherine Sandoval		<i>Beach Room</i>
9:00 – 10:00	Reception		<i>Monterey Terrace</i>

THURSDAY, JUNE 29, 2017

8:30 - 10:00	<i>Concurrent Sessions</i>		
	DISTRIBUTED ENERGY RESOURCES I	<i>Grove</i>	WATER AMID DROUGHT <i>Pacific</i>
	Chair: Gary Stern		Chair: Dennis Keane
	Discussants: Joseph Abhulmen, Scott Murtishaw		Discussants: Nguyen Quan
	Robert Entriiken: Storage VET Use Cases		Rami Kahlon: California Drought
	Aidan Tuohy, Ben Kaun, Erik Ela, and Udi Helman: Storage Valuation in Bulk Power System Planning		Janie Chermak and Robert Patrick: Residential Water Consumer Response to Price
	Eric Woychik and Mark S. Martinez: To Integrate and Optimize the Grid – Locate and Customize Distributed Energy Resources		Stephen St. Marie: Water Rate Design
10:00 – 10:20	Coffee Break		<i>Monterey Terrace</i>
10:20 - 11:50	<i>Concurrent Sessions</i>		
	ELECTRIC FORECASTING	<i>Grove</i>	ELECTRIC WHOLESALE MARKET DESIGN <i>Pacific</i>
	Chair: Dhaval Dagli		Chair: Tim Brennan
	Discussants: Armando Levy, Trina Horner		Discussants: Hung-po Chao, Tim Mount
	Cynthia Fang, Josh Mondragon, and Gwen Morien: Solar Adoption and Customer Consumption in the Residential Sector		Udi Helman and Erik Ela: Wholesale Electricity Market Design Initiatives in the U.S.: Survey and Research Needs
	Ahmad Faruqui, Zhen Wang, and James Hall: Estimating the Impact of DSM on Energy Sales Forecasts – A Survey of Utility Practices		Ryan Kurlinski and Roger Avalos: Ancillary Service Demand Curves Based on Expected Value of Avoiding Power Balance Constraint Violations
	Russell Garwacki, Lifan Pan, and Cyrus Sorooshian-Tafti: Real Time Pricing (RTP) program		Carl Linvill and Michael Hogan: Hitting the Mark on Missing Money – How to Ensure Reliability at Least Cost to Consumers
11:50 - 1:20	Lunch Break		
1:20 - 2:50	<i>Concurrent Sessions</i>		
	DISTRIBUTED ENERGY RESOURCES II	<i>Grove</i>	ISSUES FOR FERC & STATE COMMISSIONS <i>Pacific</i>
	Chair: Marzia Zafar		Chair: Kevin Woodruff
	Discussants: Carl Peterson, Eric Woychik		Discussants: Andrew Dugowson and Michael Vilbert
	Tim Brennan: NARUC vs. NYPSC		Andrew Kleit: Looking Back at ENRON After Almost Two Decades – Were California’s Electricity Markets Manipulated?
	Amparo Nieto: Designing a Value-Based Tariff Framework for Distributed Energy Resources		E. Korman, C. Zhou; M. Accordini; and L. Omondi: Murky Markets – A Review of FERC’s Determination of Submarkets in Wholesale Electric Power Mergers
	Gigio Sakota and Raymond Johnson: Demand Response Auction Mechanism (DRAM) Pilot – An Initial Look		Robert Mudge and Akarsh Sheilendranath: An Examination of Plausible Drivers of Elevated Market to Book Ratios of Regulated Utilities
2:50 - 3:00	Break		
3:00 - 4:00	<i>Concurrent Sessions</i>		
	SAFETY & SMART METERING	<i>Grove</i>	Chair:
	Chair: Gigio Sakota		Discussants: Tim Brennan
	Discussants: Catherine Elder		Victor Glass and Timothy Tardiff: Is Wholesale Pricing of Dedicated Broadband Services no Longer Relevant in a Packet World?
	Jiong Gong: What to Do When Railroad Tariffs Not Reflecting Risk of Accidents?		John Mayo, Jeffrey Macher, Olga Ukhaneva, and Glenn Woroch: Universal Service – Now It’s Getting Personal
	Carl Danner and Paul Schulman: Rethinking Risk Assessment for Safety Regulation		Menahem Spiegel: Compliance
	Michael K. McShane: Leveraging Gas Smart Meter Technology to Improve Energy Choice		
	TELECOMMUNICATIONS & COMPLIANCE	<i>Pacific</i>	

FRIDAY, JUNE 30, 2017

8:30 - 10:30 *Concurrent Sessions***MORE ON WHOLESALE MARKETS**

Chair: Menahem Spiegel

Discussants: Carl Linville, Megan Accordino

Hung-po Chao and William Hogan: Competitive Equilibrium of Two-Settlement Electricity Market with Virtual Bidding**A. Lamadrid, W. Jeon, H. Lu and Tim Mount:** The Potential Role of Aggregators in a Simple Two-Sided Electricity Market**Kevin Woodruff:** Regional Markets and Greenhouse Gases – Part II**ELECTRIC RATE DESIGN***Pacific*

Chair: Paul Nelson

Discussants: Carl Danner, Amparo Nieto

Ken Schiermeyer and Will Matsuoka: Long-Term Hourly Forecasting**Ahmad Faruqui, Ryan Hledik, and Angela Gunn:**

Simulating the Impact of Demand Charges in the Absence of Empirical Data

Paul Nelson and Ben Baker: Using Loss of Load Expectation to Allocate Generation Capacity to Peak and Flexibility Need*Monterey Terrace*

10:30 – 11:00 Coffee Break

11:00 - 12:30 *Plenary Session***ELECTRIC SERVICE PLANNING**

Chair: Catherine Sandoval

Discussants: Anne-Marie Cuneo, John Cole

Daniel Brooks, Robert Enriken, Adam Diamant, and Tom Wilson: Planning Framework for Integrated Energy Networks**Janie Chermak and Robert Patrick:** Optimizing Production of Hydrocarbons and Water**Ahmad Faruqui, Neil Lessem, and Henna Trewn:** Promoting Energy Efficiency by Leasing High Efficiency Equipment**James P. Griffin, John Cole and Mark Glick:** Hawaii's Progress and Lessons Learned in Reaching a 100% Renewable Portfolio Standard*Grove*

12:30- 12:35 Concluding Remarks – Victor Glass

SPEAKERS DISCUSSANTS & CHAIRS**Joseph Abhulmen,** Program Supervisor, California Public Utilities Commission
Megan Accordino, Associate, Analysis Group Inc.**Benjamin Baker,** Senior Financial Analyst, Southern California Edison**Tim Brennan,** University of Maryland Baltimore County**Meredith Burnett,** Assistant Staff Counsel, Nevada Public Utilities Commission**John Candelaria,** Policy Advisor, Nevada Public Utilities Commission**Hung-po Chao,** Chief Economist and Senior Director Economics – Operations and Markets, PJM Interconnection**Janie Chermak,** Professor, University of New Mexico**John Cole,** Energy Analyst, Hawaii Natural Energy Institute**Anne-Marie Cuneo,** Director of Regulatory Operations, Nevada Public Utilities Commission**Carl Danner,** Chief Internal Auditor, California Public Utilities Commission**Dhaval Dagli,** Principal Manager, Southern California Edison**Andrew Dugowson,** Energy & Environmental Policy, Southern California Edison**Catherine Elder,** Director, Energy Resource Economics, Aspen Environment Group**Robert Enriken,** Principal Technical Leader, EPRI**Cynthia Fang,** Rate Strategy and Analysis Manager, San Diego Gas & Electric**Ahmad Faruqui,** Principal, The Brattle Group**Russell Garwacki,** Director, Pricing Design and Research, Southern California Edison**Victor Glass,** Director CRR and Professor of Professional Practice, Rutgers University**Jiong Gong,** Henan University**Udi Helman,** Consultant**Trina Horner,** Director of Energy Practice, Navigant**Rami Kahlon,** Director of the Water Division, California Public Utilities Commission**Dennis Keane,** Senior Manager, Rate Design and Quantitative Analysis, Pacific Gas & Electric**Andrew Kleit,** Professor of Energy and Environmental Economics, Penn State University**Robert Kelly,** Vice President, Regulatory Affairs, Suburban Water Systems**William E. Kovacic,** Global Competition Professor of Law and Policy, The George Washington University Law School**Ryan Kurlinski,** Manager, Analysis and Mitigation Group, California Independent System Operator**Armando Levy,** Principal, The Brattle Group**Pui-Wa Li,** Utilities Engineer, California Public Utilities Commission**Kim Lighthart,** Policy Advisor, Nevada Public Utilities Commission**Carl Linville,** Principal, The Regulatory Assistance Project**Mark S. Martinez,** Manager, Emerging Markets & Technologies, Southern California Edison**John Mayo,** Professor of Economics, Business and Public Policy, Georgetown University**Karl A. McDermott,** Ameren Professor of Government and Business, University of Illinois-Springfield & Special Consultant, NERA Economic Consulting**Michael K. McShane,** Manager Energy Supplier Services, BG&E**Sreeja Meluveetil,** Associate Program Analyst, California Public Utilities Commission**Timothy D. Mount,** Professor, Cornell University**Robert S. Mudge,** Principal, The Brattle Group**Scott Murtishaw,** Energy Advisor, California Public Utilities Commission**Paul D. Nelson,** Market Design Manager, Southern California Edison**Amparo Nieto,** Vice President, NERA Economic Consulting**Robert Patrick,** Associate Professor, Rutgers University**Carl Peterson,** Professor, University of Illinois Springfield**Nguyen Quan,** Manager, Regulatory Affairs, Golden State Water**Gigio Sakota,** Senior Strategic Planning Manager, Southern California Edison**Catherine Sandoval,** former Commissioner – California Public Utilities Commission**Ken Schiermeyer,** Forecasting & Analysis Manager, San Diego Gas & Electric**Paul Schulman,** Senior Research Fellow, Center for Catastrophic Risk Management, University of California, Berkeley**Akarsh Sheilendranath,** Associate, The Brattle Group**Cyrus Sorooshian-Tafti,** Manager Load Research, Southern California Edison**Menahem Spiegel,** Professor, Rutgers University**Stephen St. Marie,** Policy Planning Analyst, California Public Utilities Commission**Gary Stern,** Director of Energy Policy, Southern California Edison**Steve Traxler,** Policy Advisor, Nevada Public Utilities Commission**Aidan Tuohy,** Senior Project Manager, EPRI**Michael J. Vilbert,** Principal, The Brattle Group**Zhen Wang,** Associate, The Brattle Group**Kevin Woodruff,** Principal, Woodruff Expert Services**Eric C. Woychik,** Senior Vice President, Willdan Group**Marzia Zafar,** CPUC, Director of Policy and Plannin**Charlene Zhou,** Manager, Analysis Group, Inc.**Cristina Zuniga,** Policy Advisor, Nevada Public Utilities Commission

ORGANIZING COMMITTEE

Matthew Arenchild (Navigant Consulting, Inc.)
Carl Danner (California Public Utilities Commission)
Robert Entriiken (EPRI)
Cynthia Fang (San Diego Gas & Electric)
Ahmad Faruqui (Brattle Group)
Victor Glass (Rutgers University)
Rami Kahlon (California Public Utilities Commission)
Dennis Keane (Pacific Gas & Electric)
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CONTACTING CRRRI

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HOTEL RESERVATIONS

Sufficient Rooms are reserved at the Hyatt Regency Monterey for all of the Conference participants. Reservations should be received by **May 28, 2017**. Hotel reservation can be made by using the following Passkey Link:

<https://resweb.passkey.com/go/CRRRIannualConference2017>

Hyatt Regency Monterey

1 Golf Course Road
Monterey, California, 93940, USA
1-888-421-1442

If you are not making reservations through the link above please identify yourself as being held under the group block: Rutgers University CRRRI Program.

REGISTRATION INFORMATION

To Register: Please complete and return the form to CRRRI. 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 24, 2017. Registrations received after May 24, 2017 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 28, 2017, all receptions and coffee breaks, but do not include lodging and other meals. The government registration fee is available for government employees.

REGISTRATION FORM: 30th Annual Western Conference

Name _____
Title: _____
Company: _____
Complete Address: _____
Telephone: _____ Fax: _____
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Billing Information:

Payment enclosed \$1,135 U.S. Dollars
 Send invoice to participant at above address.
 Send invoice to _____
 Credit Card: VISA MC Exp. ____/____ CVC Code: ____ Card # _____

GOVERNMENT RATE: Government employees may apply for reduced enrollment fees.
 I would like to apply for the govt rate of \$610

CANCELLATION POLICY: Until May 9, 2017 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: _____