

Advanced Workshop in Regulation and Competition

32nd Annual Western Conference

Hyatt Regency, Monterey, California on June 26-28, 2019

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: Drew Bohan

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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 26, 2019

2:00 – 4:30	Registration	<i>Monterey Terrace</i>
4:30 – 6:05	Welcome to Conference: Victor Glass	<i>Grove Room</i>
4:35 – 6:00	<p>Karl A. McDermott Decoupling a Policy History: The long and Winding Road to Acceptance Darryl Biggar and Alberto Heimler Hipster Antitrust, Sunk Investments and the Economic Foundation of Competition Law Tim Brennan Overturning Chevron: Be Careful What You Wish For Matt Coldwell Decarbonizing Transportation</p>	
6:00 – 7:00	Cocktail Hour	<i>Monterey Terrace</i>
7:00 – 9:00	Dinner & Keynote Speech: Drew Bohan	<i>Beach Room</i>
9:00 – 10:00	Reception	<i>Monterey Terrace</i>

THURSDAY, JUNE 27, 2019

8:30 – 10:00AM <i>Concurrent Sessions</i>	
Grove	Pacific
Performances Base	Safety
Chair: David Sappington Discussants: Carl Peterson Karl A. McDermott and Ross C. Hemphill: Regulatory Risk Re-Examined	Chair: Joseph Abhulimen Discussants: Stephen St. Marie Ephram Glass and Victor Glass: Underground Power Lines Can be the Least Cost Option
Megan Accordino, R. Jeffrey Malinak, and Ryan Hughes: The Impact of Regulatory Uncertainty on Electric Utilities, Rate Payers, and Investors	Ephram Glass and Victor Glass: How to Protect Ourselves from Climate Change While Saving Money
Ed Smeloff and Eric Woychik: Progress and Promise of Performance-Based-Ratemaking: A New Era For Electric Utilities and Clean Energy	Derek Fong: Effect of a Thunderstorm Outflow Vortex on Overhead Electric Distribution Facilities
10:00 – 10:20AM Coffee & Tea Break	
10:20 – Noon <i>Concurrent Sessions</i>	
Electricity and Gas Pricing, and Cost Allocation	Electricity Markets and Procurement
Chair: Carl Peterson Discussants: Carl Danner	Chair: Eric Korman Discussants: Kevin Woodruff, Jason Hansen
Paul D. Nelson: Using Flexible and System Peak Generation Cost to Develop Cost-Based Rates	JP Carvallo: The Use of Market Purchases by Vertically-integrated U.S.
Alberto J. Lamadrid and Tim Mount: Peak-Load Pricing Revisited	Hung-po Chao: Capacity Market With State Subsidy Programs
Jan Grygier: Be Careful What You Ask For: Customer Response to TOU Rates With and Without shiftable Demand	Darryl Biggar and Mohammad Hesamzadeh: Generalized FTRs for Hedging Inter-Nodal Pricing Risk
Noon – 1:15PM Lunch	
1:15 – 3PM <i>Concurrent Sessions</i>	
Clean Energy	Rates for Distributed Energy Resources
Chair:TBA Discussants: Emma Dong, Carl Danner Tim Brennan: CPP vs. ACE: Economics or Ethics	Chair: Cyndee Fang Discussants: Darryl Biggar Amparo Nieto: Efficient Compensatory Framework for Microgrids and Energy Storage for their Value as Grid and Capacity Resources
John Higham: Develop a cost-benefit analysis test for utility electrification programs	Naim Darghouth: Implications of Rate Design for the Customer-Economics of Behind-the-Meter Storage
Mariko Geronimo Aydin: Reinventing Demand Response	Joseph Long: TOU rates effect on Behind the Meter Storage Battery Investment
	Reuben Behlihomji, Erin Pulgar: Evolution of NEM Cost-Shift
3:00 – 3:15PM Break	

3:15 – 5PM <i>Concurrent Sessions</i>	
Resiliency	Distributed Energy Resources
Chair: Mariko Geronimo Aydin Discussants: Mariko Geronimo Aydin Jeremy Battis: Physical Security of Infrastructure	Chair: Margot Everett Discussants: Cyndee Fang
Elizaveta Malashenko: Rethinking Utility Vegetation Management	Mark S. Martinez, Eric Woychik: Distributed Energy Optimization: Customer Value Capture with Technology Layers
R. Entriiken: Resource Adequacy: History and Catalog of Metrics	Elaine Cunha: Case Study: The Impact of Solar Energy Policies in California and Lessons Learned
A. Tuohy, R. Entriiken: Integrating Energy Analytics and Grid Reliability Tools: Linking Tools across Time and the Electricity Supply Chain	Karl Dunkle Werner: Assessment of Residential Net Metering Subsidies

FRIDAY, JUNE 28, 2019

8:30 – 10:00AM <i>Concurrent Sessions</i>	
Grove	Pacific
Energy Markets-Regionalization	Water
Chair: Tim Brennan Discussants: Ryan Kurlinski Carly J. Page: Why the West Can Succeed in Creating a Regional Wholesale Electricity Market (Even without California)	Chair: Menahem Spiegel Discussants: Stephen St. Marie Robert Kelly: How A Tumultuous History Of Land Development Drove Water Regulatory Policy: A Florida Case Study
Matt Arenchild and Stephen Keehn: Western EIM and Market Based Rate Authority	Janie M. Chermak and Robert H. Patrick: Water Utility Pricing: Cost Recovery and Conservation Under Uncertainty
Kevin Woodruff: The Challenges of Tracking and Forecasting Electric Sector Greenhouse Gas Emissions: A Survey of California Policies and Methods	Eric Woychik: New On-time Locational Technology: Co-Optimized Solutions for the Water-Energy Nexus
10 – 10:30AM Coffee and Tea Break, & Check out	
10:30 – 12:15PM <i>Concurrent Sessions</i>	
Energy Markets-Renewables	Rate Design Policy
Chair: Megan Accordino Discussants: Kevin Woodruff, Darryl Biggar Emma Dong: The Cost of Wind Intermittency: Evidence From Texas	Chair: Paul Nelson Discussants: Trina Horner Mariko Geronimo Aydin: Rate Design for the Digital Age
Erik Ela and Udi Helman: Wholesale Electricity Market Design Initiatives in the United States: Survey and Research Needs	Margot Everett, Cyndee Fang, Andre Ramirez: A Modern Rate Architecture for California's Future
Andrew Mills: How Much Are Wind and Solar Driving Changes in Wholesale Power Prices?	John Higham: Transitioning to Modern Rate Designs
Hung-po Chao: Demand Response for Clean Power Under Uncertainty	
12:15 – 12:20 Concluding Remarks – Victor Glass	

SPEAKERS DISCUSSANTS & CHAIRS

Joseph Abhulimen, Program/Project Supervisor, CPUC
Megan Accordino, Manager, Analysis Group
Anthony Alvarez, Utility Analyst, Indiana Office of the Utility Consumer Counselor
Matt Arenchild, Managing Director, Navigant
Mariko Geronimo Aydin, The Brattle Group
Jeremy Battis, Risk and Safety Analyst, CPUC
Ruben Belihomji, Financial Analyst, Southern California Edison
Darryl Biggar, Australian Competition and Consumer Commission
Drew Bohan, Executive Director, California Energy Commission
Tim Brennan, University of Maryland Baltimore County

JP Carvallo, Sr. Scientific Engineering Associate, Lawrence Berkeley National Laboratory
Edward Cazalet, CEO TeMIX Inc.
Hung-po Chao, Chief Economist and Senior Director Economics – Operations and Markets, PJM Interconnection
Janie M. Chermak, Professor, University of New Mexico
Matt Coldwell, Manager, Demand Analysis, California Energy Commission
Elaine Cunha, The Brattle Group
Carl Danner, Managing Director, Berkeley Research Group
Naim Darghouth, Research Associate, Lawrence Berkeley National Laboratory
Emma Dong, Associate, Analysis Group

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Erik Ela, Senior Technical Leader, EPRI
Robert Enriken, Principal Technical Leader, EPRI
Margot Everett, Director, Navigant
Cyndee Fang, Manager of Customer Pricing, SDG&E
Derek Fong, Senior Utilities Engineer, CPUC
William Fuller, Regulatory Business Manager, San Diego Gas and Electric
Ephram Glass, Consultant
Victor Glass, Director CRRU and Professor of Professional Practice, Rutgers University
Jan Grygier, Principal Data Scientist, PG&E
Jason Hansen, Senior Economist, Idaho National Laboratories
Udi Helman, Consultant
John Higham, The Brattle Group
Trina Horner, Director 'Energy', Navigant
Ryan Hughes, Associate, Analysis Group
Raminder Kahlon, Director of the Water Division, CPUC
Dennis Keane, Senior Manager, Rate Design and Quantitative Analysis, PG&E
Stephen Keehn, Associate Director, Navigant
Robert Kelly, Vice President, Regulatory Affairs, SouthWest Water Company
Eric Korman, Vice President, Analysis Group
Ryan Kurlinski, Manager, Analysis and Mitigation Group, CAISO
Alberto J. Lamadrid, Associate Professor of Economics, Lehigh University
Joseph Long, Energy Economics Analyst, Aspen Environmental Group
Elizaveta Malashenko, Director, Safety Enforcement Division, CPUC
R. Jeffrey Malinak, Managing Principal, Analysis Group Inc.
Mark S. Martinez, Manager, Emerging Markets & Technologies, Southern California Edison
Karl A. McDermott, Ameren Professor of Government and Business, University of Illinois-Springfield
Andrew Mills, Research Scientist, Lawrence Berkely National Laboratory
Gwen Morien, Rate Strategy Project Manager, San Diego Gas and Electric
Tim Mount, Professor, Cornell University
Paul D. Nelson, Consultant, Barkovich and Yap
Amparo Nieto, Senior Vice President, Economists Inc.
Carly J. Page, Economist, Public Utilities Commission of Nevada
Samantha Pate, Sr. Regulatory Manager, San Diego Gas and Electric
Robert H. Patrick, Associate Professor, Rutgers University
Erin Pulgar, Project Manager, SCE
Nguyen Quan, Manager, Regulatory Affairs, Golden State Water Company
Andre Ramirez
David Sappington, Professor, University of Florida
Ed Smeloff
Menahem Spiegel, Professor, Rutgers Business School
Jeff Stein, Manager, Customer Pricing, San Diego Gas and Electric
Aidan Tuohy, Senior Project Manager, EPRI
Karl Dunkle Werner, The Brattle Group
Kevin Woodruff, Woodruff Expert Services
Eric Woychik, Senior Vice President, Willdan Group

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using the following Passkey Link:

<https://www.hyatt.com/en-US/group-booking/MRYDM/G-RUT6>

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 CRRU Program.

ORGANIZING COMMITTEE

Matthew Arenchild (Navigant Consulting, Inc.)
Carl Danner (Berkeley Research Group)
Robert Enriken (EPRI)
Cynthia Fang (San Diego Gas and Electric)
Ahmad Faruqui (The Brattle Group)
Victor Glass (Rutgers University)
Rami Kahlon (California Public Utilities Commission)
Dennis Keane (Pacific Gas and Electric)
Eric Korman (Analysis Group)
Paul Nelson (Barkovich and Yap)
Amparo Nieto (Economists Inc.)
Ryan Kurlinski (CAISO)
Kevin D. Woodruff (Woodruff Expert Services)

HOTEL RESERVATIONS

Sufficient Rooms are reserved at the Hyatt Regency Monterey for all of the Conference participants. Reservations should be received by **May 26, 2019**. Hotel reservation can be made by

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CRRRI – Rutgers University

CONTACTING CRRRI

Victor Glass, Director – CRRRI and Professor of Professional Practice, Rutgers University

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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, 2019. Registrations received after May 24, 2019 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 26, 2019, all receptions and coffee breaks, but do not include lodging and other meals. The government registration fee is available for government employees.

REGISTRATION FORM: 32nd Annual Western Conference

Name _____

Title: _____

Company: _____

Complete Address: _____

Telephone: _____

Fax: _____

Email: _____

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, 2019 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: _____