

CRRI

Advanced Workshop in Regulation and Competition

33rd Annual Western Conference

Hyatt Regency, Monterey, California on June 22-24, 2022

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: Chair Commissioner Emeritus Mark Kolesar

C
ENTER FOR
R
RESEARCH IN
R
REGULATED
I
INDUSTRIES

RUTGERS

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*.

crri@business.rutgers.edu

www.business.rutgers.edu/CRRI

Rutgers Business School • 1 Washington Park, Room 1104 • Newark, NJ 07102-1897

973-353-5761

WEDNESDAY, JUNE 22, 2022

2:00 – 4:30	Registration	<i>Mark Thomas Foyer</i>
4:30 – 6:05	Welcome to Conference: Victor Glass	<i>Cypress</i>
4:35 – 6:00	<p><i>Agustin Ros</i> “Performance-Based Regulation”</p> <p><i>Darryl Biggar</i>, “Seven Outstanding Issues in Electricity Network Regulation”</p> <p><i>William Kovacic</i>, “The Biden Administration: The Transformation of Economic Regulation”</p>	
6:00 – 7:00	Cocktail Hour	<i>Mark Thomas Foyer</i>
7:00 – 9:00	Dinner & Keynote Speech: Mark Kolesar <i>The Role of the Regulator: Looking back and to the future</i>	<i>Windjammer</i>
9:00 – 10:00	Reception	<i>Windjammer 1-4r</i>

THURSDAY, JUNE 23, 2022

8:30 – 10:00AM <i>Concurrent Sessions</i>		
Cypress 1-3		Spy Glass 1-2
Energy Communities	Transforming Transmission	
Chair: Menahem Spiegel Discussants: Jason Hansen Eric Woychik and Kenneth Skinner: A Tale of Two Cities [Plus one] Energy Revolution in an Era of DER	Chair: Megan Accordino Discussants: Rafael Emmanuel Macatangay Tim Brennan: The Importance of Novelty in Transmission Policy	
Mark Kolesar Community Energy Projects	Agustin Ros, Sai Shetty, and Tim Tardiff, Performance Based Regulation in Electricity and Cost Benchmarking: Theoretical Underpinnings and Application”	
Fereidoon Sioshansi: The Future of Decentralized Distribution Networks	Darryl Biggar, Handling Non-Stationary Uncertainty in the Regulatory Contract	
10:00 – 10:20AM Coffee & Tea Break		Mark Thomas Foyer
10:20 – Noon <i>Concurrent Sessions</i>		
Behind the Meter	Reliability Strategies	
Chair: Cyndee Fang Discussants: Rafael Emmanuel Macatangay, Darryl Biggar Eric Woychik, Kenneth Skinner, and Richard Stevie: Combined Cost Effectiveness: Energy Efficiency and Electrification	Chair: Jeffrey Macher Discussants: Robert Press Alberto Lamadrid, Timothy Mount, and Wooyoung Jeon: The Increasing Cost of Maintaining System Adequacy	
Mark Kolesar and Michael Vigdor: Load Attraction Programs	David Brown and Lucija Muehlenbachs: The Value of Electricity Reliability: Evidence from Battery Adoption	
Amparo Nieto: Improved Rate Designs for a Cleaner Energy Sector: Merits of the California NEM Reform and What else is Needed for an Effective Regulatory Contract	D. McDowell, A. Wrobel, P. Talbot, K. Frick, H. Bryan, J. Hansen, R. Boardman: A Technical and Economic Assessment of LWR Flexible Operations for Generation Balancing to Optimize Plant Revenue	
Agustin Ros and Sai, Residential Rooftop Solar Demand and the impact of NEM Compensation and Electricity Prices		
Noon – 1:15PM Lunch		
1:15 – 2:45PM <i>Concurrent Sessions</i>		
Managing Decarbonization	Fostering Competition	

<p>Chair: Catherine Elder Discussants: Tim Brennan, Eric Woychik Alberto Lamadrid, Timothy Mount, and Wooyoung Jeon, Modeling Risk for the Decarbonization of Electric Systems</p>	<p>Chair: John Mayo Discussants: David Salant, Eric Hilderbrandt J. Macher, J. Mayo, and R. Press, Customer Switching, Firm Entry and Regulatory Policy: Evidence from the Electric Utility Industry</p>
<p>Daniel Stuart and James Stock, Robust Decarbonization of the US Power Sector: Policy Options</p>	<p>Matthew Arenchild: IEvolution of the Electric Wholesale Market – Coordination vs. Competition</p>
<p>Mark Kolesar and Liza Reed, The Role of Transmission in Achieving Net Zero</p>	<p>Darryl Biggar, Foundations of the Cost of Capital for Regulatory Purposes</p>
<p>Peter Blazunas, Kelly Porter, Carl Peterson, Charging Ahead: A Toolkit for Electric Vehicle Charging Rate Design Policies</p>	<p>Udi Helman, Demand Response and Dispatchable DER in Wholesale Markets: a Comparative Review in the US ISOs</p>
<p>2:45 – 4:30 PM</p>	
<p>4:30-5:00PM</p>	
<p>Risk, Reliability, and Resilience</p>	
<p>Chair: Paul Nelson Discussants: J.P. Carvalho, Eric Woychik Jeremy Battis et al., California’s Risk-Based Decision-Making Framework: How Predicating Rate Setting Approval on Energy Risk Quantification Advances and Safety Goals Victor Glass, Hung-po Chao, and Mario DePillis, Roles of Technology and Market Forces for Clean Power Under Uncertainty Robert Entriken et al., A Practical Application of Transmission System Resilience</p>	

FRIDAY, JUNE 24, 2022

<p>8:30 – 10:00AM <i>Concurrent Sessions</i></p>	
<p>Cypress 1-3</p>	<p>Spy Glass 1-2</p>
<p>Electric Vehicles</p> <p>Chair: Frank Harris Discussants: Fereidoon Sioshansi: K. Skinner, R. Stevie, and E. Woychik, Optimal Electric Vehicle Charging – Least Cost GHG Levels with Transportation Electrification and DER Andrew Satchwell, J.P. Caravallo, and Peter Capers, The Financial Impacts of Electric Vehicles on Utility Shareholders and Ratepayers</p>	<p>Regulatory Economics</p> <p>Chair: Jimi Netmiss Discussants: Rami Kahlon, Catherine Elder Tim Brennan, Willingness to Pay to Avoid Higher Temperatures: A Simple Model with Complex Implications Paul Nelson, Annualizing Capital Costs When Prices are Declining</p>
	<p>Cyndee Fang, Residential Time of Use ,, and How We Got There</p>
<p>10 – 10:30AM Coffee and Tea Break, & Check out</p>	
<p>10:30 – 12:15PM <i>Concurrent Sessions</i></p>	
<p>Resiliency Panel</p> <p>Chair: Bob Entriken Wilson Rickerson, Regulatory Considerations for Utility Investments in Dfense Energy Resilience Peter Larsen, Estimating the Impacts of Power Interruption</p>	

SPEAKERS DISCUSSANTS & CHAIRS

Megan Accordino, Vice President, Analysis Group
Matt Arenchild, Partner, Guidehouse
Jeremy Battis, Senior Analyst, CPUC
Darryl Biggar, Special Economic Advisor, Australian Competition and Consumer Commission
Anastasia Bogdanova, Associate, Analysis Group
David Brown, Associate Professor, University of Alberta
Tim Brennan, Professor Emeritus, University of Maryland Baltimore County
JP Carvalho, Sr. Scientific Engineering Associate, Lawrence Berkeley National Laboratory
Alberto Lamadrid, Associate Professor of Economics, Lehigh University
Catherine Elder, Principal Associate, Aspen Institute
Robert Entriiken, Principal Technical Leader, EPRI
Cyndee Fang, Director of Regulatory Affairs, Northwestern Energy
Adam Farbaugh, Market Development Manager, Uplight
Victor Glass, Professor, Rutgers Business School
Jason K. Hansen, Sr. Research Economist, Idaho National Laboratory
Frank Harris, Manager of Energy and Regulatory Policy, California Municipal Utilities Association
Eric Hilderbrandt, Executive Director, Department of Market Monitoring, CAISO
Udi Helman, Principal, Helman Analytics
Rami Kahlon, Director of Regulatory Affairs, California Water Service
Robert Kelly, Vice President, Southwest Water Company
Mark Kolesar, Chair Emeritus, Alberta Utilities Commission, Managing Principal of Kolesar & Buchanan Associates
Willaim Kovacic, Professor of Law, George Washington University
Peter Larsen, Leader, Electricity Markets and Policy Department, Lawrence Berkeley National Laboratory
Kim Lighthart, Policy Advisor, PUC Nevada
Rafael Emmanuel Macatangay, Regulatory Economist, PUC Nevada
Jeffrey T. Macher, Professor, McDonough School of Business, Georgetown University
John Mayo, Professor of Economics, Business, and Public Policy, Georgetown University
Tim Mount, Professor Emeritus, Cornell University
Paul Nelson, Consultant, Barkovich and Yap Inc.
Jimi Netmiss, Assistant General Manager Finance, Modesta Irrigation District
Amparo Nieto, Senior Director, E3 – Energy and Environmental Economics
Robert Press, Post Doctoral Fellow, Georgetown University
Liza Reed, Research Manager, Niskanen Center
Wilson Rickerson, Principal, Converge Strategies
Agustin Ros, Principal, Brattle Group, Adjunct professor, Brandeis University
David Salant, Associate Faculty, Toulouse School of Economics
Fereidoon P. Siohani, President, Menlo Energy Economics
Menahem Spiegel, Professor, Rutgers Business School
Daniel Stuart, Associate, Analysis Group
Eric Woychik, Senior Vice President, Willdan Group

all of the Conference participants. Reservations should be received by **May 22, 2022**. Hotel reservation can be made by using the following Passkey Link

CRRRI 33RD ANNUAL WESTERN CONF

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

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.

ORGANIZING COMMITTEE

Matthew Arenchild (Guidehouse Consulting, Inc.)
 Carl Danner (Berekeley Research Group)
 Robert Entriiken (EPRI)
 Cynthia Fang (Northwestern Energy)
 Victor Glass (Rutgers University)
 Amparo Nieto (E3)
 Paul Nelson, (Barkovich and Yap Inc.)

HOTEL RESERVATIONS

Sufficient Rooms are reserved at the Hyatt Regency Monterey for

33rd Annual Western Conference

CRRRI – Rutgers University

CONTACTING CRRRI

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

Home Page: www.business.rutgers.edu/CRRRI

Address: Center for Research in Regulated Industries
Rutgers Business School, Rutgers University,
1 Washington Park, Room 1120
Newark, NJ 07102-1897

Phone: 973-353-5761

Email: vglass@business.rutgers.edu (Victor Glass)
crrri@business.rutgers.edu (CRRRI Admin Asst)

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, 2022. Registrations received after May 24, 2020 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 22, 2022, 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: _____