

# Efficient Markets

# Effective Regulation

## NARUC

### 128th Annual Meeting

November 13-16, 2016 | La Quinta, CA



# Welcome to NARUC's 128<sup>th</sup> Annual Meeting

Thank you for joining NARUC in La Quinta, California! The Association is pleased to provide a range of Committee Meetings and Concurrent Sessions that reflect the most critical aspects of energy, utility, transportation, and telecommunications matters.

Our state regulators continue to meet the ongoing challenges of serving the public interest. To that end, we have assembled a platform of speakers and panels designed to offer practical, useful information that facilitates this mission. NARUC continually strives to advocate for our members and create meaningful dialogues.

Along with the outstanding array of committee meetings, you will note the excellent concurrent sessions that underscore the theme, *"Efficient Markets, Effective Regulation."* At this Annual Meeting, we look forward to hearing President Travis Kavulla's reflection on the past 12 months. He turns the reins over to 1<sup>st</sup> Vice President Robert Powelson of Pennsylvania, who will lead the Association under the theme, *Infrastructure, Innovation, and Investment: Driving the Future of Regulation*.

On Monday, our General Session begins at 1:30 p.m., and will include the presentation of The Terry Barnich Award to two members who have provided exemplary support for our International Program. We will also hold the 2016-17 officers and board members meeting. On Tuesday, the General Session convenes at 9:00 a.m. with a post-election discussion of the new administration's priorities for the energy and telecom sectors. Wednesday, we conclude with a debate on nuclear policy and a General Session focused on the highly anticipated final *Distributed Energy Resources Compensation Manual*, produced by NARUC's Subcommittee on Rate Design.

It is not possible to execute and coordinate a meeting of this level without the determined work of our committee and subcommittee members, who are responsible for developing these sessions. We applaud the efforts of our chairs, who continue to help NARUC create a world-class meeting for Association members, as well as the stakeholder communities. Please take a moment to thank our chairs and committee members when you see them!

New this year is the NARUC Meeting App. If you have not downloaded it yet or have any questions, feel free to stop by the registration desk for assistance. Thank you again for joining us in La Quinta—our NARUC staff looks forward to engaging with you during and after the meeting.

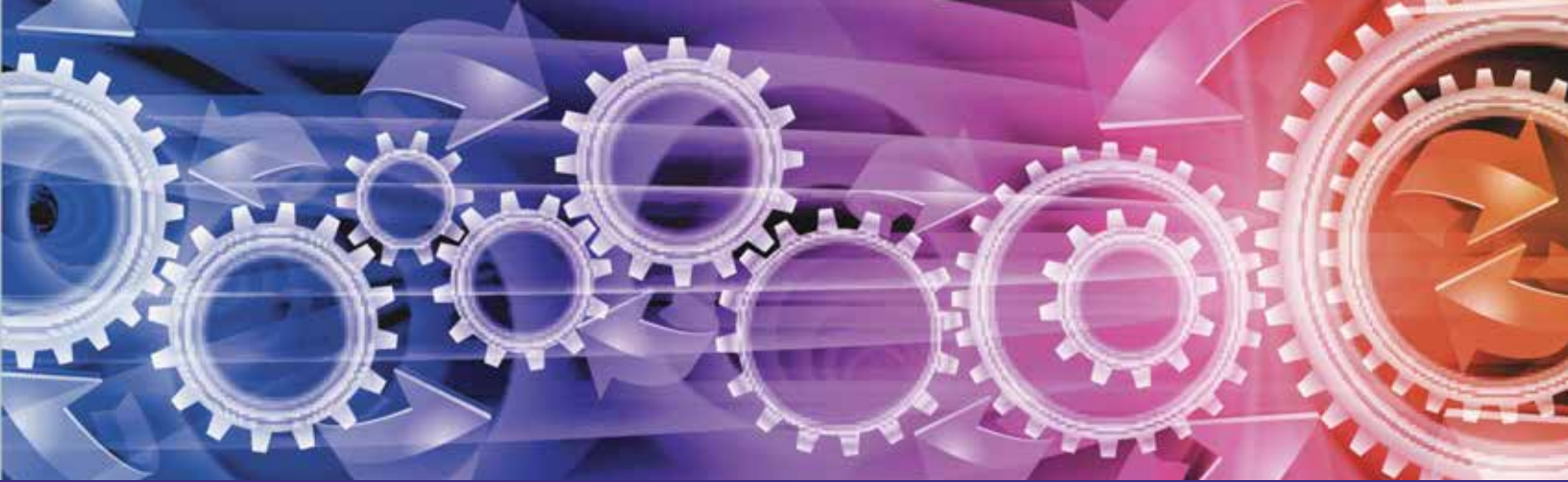


Sincerely,

Hon. Travis Kavulla of Montana



Greg White, NARUC  
Executive Director



# 2016 NARUC Officers

- Travis Kavulla, President**  
Montana Public Service Commission
- 
- Robert F. Powelson, First Vice President**  
Pennsylvania Public Utility Commission
- 
- John W. Betkoski, III, Second Vice President**  
Connecticut Public Utilities Regulatory Authority
- 
- David E. Ziegner, Treasurer**  
Indiana Utility Regulatory Commission
- 
- Greg R. White, Executive Director**  
National Association of Regulatory Utility Commissioners
- 

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## General Information

### Hotel Information

#### **La Quinta Resort and Club**

49499 Eisenhower Drive  
La Quinta, CA 92253  
(760) 564-4111

#### **Homewood Suites by Hilton La Quinta**

45-200 Washington, Street  
La Quinta, CA 92253  
(760) 391-4600

### Registration and Information Desk

The NARUC registration and information desk will be open the following hours:

<b>Sunday</b>	<b>8:00 a.m.–6:30 p.m.</b>
<b>Monday</b>	<b>8:00 a.m.–5:00 p.m.</b>
<b>Tuesday</b>	<b>8:00 a.m.–3:00 p.m.</b>
<b>Wednesday</b>	<b>8:00 a.m.–11:00 a.m.</b>

### Badge Color Identification

Badges must be worn and visible at all times when attending a NARUC meeting or event.

**Blue** – Commissioners

**Green** – Industry

**Red** – Commission Staff

**Tan** – NASUCA/Public Interest/Consumer Groups/Federal/State Agencies (non-members)

**Purple** – Media

### Program Printing

This program was printed using information as of October 14. Some information may have changed by the time the meeting occurs.



### Suggested Attire

- Sunday - Wednesday: Business Casual
  - Welcome Reception: Business Casual
- Meeting rooms have a tendency to be cool. We suggest you bring a sweater or jacket for your comfort.

### Continental Breakfast

A continental breakfast will be provided from 7:30 a.m. to 9:00 a.m. Sunday through Wednesday, courtesy of the National Rural Electric Cooperative Association (NRECA) in the Flores Ballroom Foyer.



### Event Tickets

Tickets are required from everyone for entry to the NARUC Welcome Reception. There are no additional charges for this event. Tickets will be exchanged at the door for two beverage tickets. See the registration desk for guest ticket information and fees. NARUC encourages all individuals to drink responsibly and not to drink and drive.

### Twitter Users:

Use the #NARUCAnnual16 hashtag when tweeting from our meeting. Follow us at <http://twitter.com/naruc> for the latest updates. Please stop by the Aclara and Oracle tables to thank them for keeping you connected.



### NEW! Conference App

Don't miss out on the need-to-know information! Download the NARUC Annual Meeting Mobile App.

Conveniently review everything you need to know about the Annual Meeting. Enhance your event experience by using the app to view the entire program, connect with other attendees, engage in panel sessions, view speaker profiles, and more—right at your fingertips! Stop by the NARUC Registration Help Desk if you need assistance downloading the app.

### Taping/Video Policy

Unless you receive prior approval from NARUC, only credentialed members of the press are allowed to tape or video NARUC sessions. This policy gives comfort to our speakers and protects NARUC from potential legal action. If you wish to tape or record any portion of the NARUC meeting, please contact Communications Director Regina L. Davis at [rdavis@naruc.org](mailto:rdavis@naruc.org) for permission.

# Daily Schedule at a Glance

## SUNDAY, NOVEMBER 13

TIME	EVENT	LOCATION	PAGE NO.
7:30 a.m. - 9:00 a.m.	Continental Breakfast	Flores Foyer	
8:00 a.m. - 6:30 p.m.	Registration Open	La Cita	
9:00 a.m. - 11:45 a.m.	Staff Subcommittee on Consumer Affairs	Flores 6	9
9:00 a.m. - 11:45 a.m.	Staff Subcommittee on Gas	Flores 1 & 3	10
9:00 a.m. - 11:45 a.m.	Staff Subcommittee on Rate Design	Fiesta 5	11
9:00 a.m. - 11:45 a.m.	Subcommittee on Utility Marketplace Access	Flores 4	12
9:00 a.m. - 5:00 p.m.	Staff Subcommittee on Telecommunications	Flores 7-8	13
10:00 a.m. - 11:30 a.m.	Staff Subcommittee on Critical Infrastructure	Flores 1-3	15
10:15 a.m. - 10:30 a.m.	Networking Break	Flores Foyer	
10:30 a.m. - 1:00 p.m.	New Commissioner Forum (for New Commissioners)	Studio	15
10:30 a.m. - 11:45 a.m.	Washington Action (closed)	Diego Rivera	15
10:45 a.m. - 11:45 a.m.	Staff Subcommittee on Energy Resources and the Environment	Flores 1 & 3	16
1:00 p.m. - 2:45 p.m.	Telecommunications Modernization Act (TEAM) (closed)	Diego Rivera	16
1:00 p.m. - 3:00 p.m.	Committee on Consumer Affairs	Flores 4	17
1:00 p.m. - 5:00 p.m.	Staff Subcommittee on Pipeline Safety (closed)	Flores 6	17
1:00 p.m. - 5:00 p.m.	Staff Subcommittee on Law	Flores 3	17
1:15 p.m. - 3:00 p.m.	Staff Subcommittee on Electricity	Flores 5	18
1:15 p.m. - 3:00 p.m.	Staff Subcommittee on Electric Reliability	Flores 5	18
1:30 p.m. - 3:00 p.m.	Subcommittee on Pipeline Safety (closed)	Flores 6	17
2:15 p.m. - 2:45 p.m.	Networking Break	Flores Foyer	
3:00 p.m. - 5:00 p.m.	Task Force on Transportation	Flores 1 & 2	19
3:15 p.m. - 5:00 p.m.	Committee on International Relations	Flores 4	20
3:15 p.m. - 5:00 p.m.	Committee on Critical Infrastructure	Flores 5	22
3:45 p.m. - 4:00 p.m.	Networking Break	Flores Foyer	
5:00 p.m. - 6:30 p.m.	Welcome Reception	Fiesta Ballroom	

# Daily Schedule at a Glance

## MONDAY, NOVEMBER 14

TIME	EVENT	LOCATION	PAGE NO.
7:30 a.m. - 9:00 a.m.	Continental Breakfast	Flores Foyer	
7:30 a.m. - 8:45 a.m.	Board of Directors Breakfast Meeting	Studio	
8:00 a.m. - 5:00 p.m.	Registration Open	La Cita	
9:00 a.m. - 11:45 a.m.	Committee on Telecommunications	Flores 7-8	25
9:00 a.m. - 11:45 a.m.	Committee on Water	Flores 6	26
9:00 a.m. - 11:45 a.m.	Committee on Gas	Flores 5	27
9:00 a.m. - 11:45 a.m.	Committee on Energy Resources and the Environment	Flores 1-3	28
9:00 a.m. - 11:45 a.m.	Committee on Electricity	Flores 4	29
9:00 a.m. - 11:45 a.m.	Staff Subcommittee on Law	Diego Rivera	30
11:45 a.m. - 1:30 p.m.	Regulators Luncheon	Water Fall Lawn	
1:30 p.m. - 3:00 p.m.	Opening General Session	Fiesta Ballroom	31
3:00 p.m. - 3:30 p.m.	Networking Break	Flores Foyer	
3:30 p.m. - 4:45 p.m.	Concurrent Sessions A 1-5	Flores Ballroom	32
5:00 p.m. - 6:00 p.m.	MACRUC (Invitees only)	Fiesta 14	
5:00 p.m. - 6:00 p.m.	MARC (Invitees only)	Fiesta 13	
5:00 p.m. - 6:00 p.m.	NECPUC (Invitees only)	Studio	
5:00 p.m. - 6:00 p.m.	SEARUC (Invitees only)	Fiesta 10	
5:00 p.m. - 6:00 p.m.	Western (Invitees only)	Diego Rivera	

# Daily Schedule at a Glance

## TUESDAY, NOVEMBER 15

TIME	EVENT	LOCATION	PAGE NO.
7:30 a.m. - 9:00 a.m.	Continental Breakfast	Flores Foyer	
8:00 a.m. - 3:00 p.m.	Registration Open	Flores Foyer	
9:00 a.m. - 10:15 a.m.	General Session	Fiesta Ballroom	35
10:15 a.m. - 10:45 a.m.	Networking Break	Flores Foyer	
10:45 a.m. - 11:45 a.m.	Concurrent Sessions B 1-5	Flores Ballroom	35
11:45 a.m. - 12:00 p.m.	Networking Break	Flores Foyer	
12:00 p.m. - 1:00 p.m.	Concurrent Sessions C 1-5	Flores Ballroom	37
1:00 p.m. - 2:15 p.m.	Annual Officer Installation Luncheon	Fiesta Ballroom	
2:15 p.m. - 4:30 p.m.	Board of Directors Meeting	Studio	
2:30 p.m. - 4:30 p.m.	National Regulatory Research Institute (NRRI) Colloquium	Flores 5	39

## WEDNESDAY, NOVEMBER 16

TIME	EVENT	LOCATION	PAGE NO.
7:30 a.m. - 9:00 a.m.	Continental Breakfast	Flores Foyer	
8:00 a.m. - 12:00 p.m.	Registration Open	La Cita	
8:00 a.m. - 9:45 a.m.	Concurrent Sessions D 1-2	Flores Ballroom	43
9:45 a.m. - 10:00 a.m.	Networking Break	Fiesta Foyer	
10:00 a.m. - 11:15 a.m.	Closing General Session	Fiesta Ballroom	44

# Please Join NARUC's Committee on International Relations in Honoring the 2016 Recipients of the Terry Barnich Award

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**Philip B. Jones**  
**Commissioner**  
**Washington**  
**Utilities and**  
**Transportation**  
**Commission**

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**Raj Addepalli**  
**Managing Director**  
**Utility Rates and**  
**Services**  
**New York Public**  
**Service Commission**

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Monday, November 14 • 1:30 p.m. Opening General Session • Fiesta Ballroom



**Commissioner Philip B. Jones of the Washington Utilities and Transportation Commission** has worked across the world to broaden and deepen NARUC's engagement with international partners.

As NARUC President and in other roles, he strengthened relationships with European regulators through NARUC's interactions with the Energy Regulators Regional Association and the Council of European Energy Regulators. He also organized the first NARUC leadership delegation to China and encouraged bilateral relationships between Washington UTC and Thailand and Cambodia.

Commissioner Jones was also a strong advocate of building robust regulatory relationships with our counterparts in Canada and its Provinces, namely CAMPUT (the association of Canadian regulators), and encouraged regular bilateral meetings and enhanced visits between the two Associations.

He has been a generous supporter of NARUC's International Programs, encouraging staff to participate in activities in Eurasia, Africa, Asia and elsewhere and helping the Washington UTC to become a model commission for international engagement through NARUC.



**Mr. Raj Addepalli of the New York Public Service Commission** has gained the respect of regulators around the world through his tireless efforts to support international capacity building through NARUC.

Mr. Addepalli has provided training and expertise to regulators from Southeast Europe, the Black Sea region, South Asia and elsewhere in his 15 years of service to NARUC's programs.

Uniformly, foreign regulators and fellow U.S. colleagues speak of Mr. Addepalli's keen intellect, his commitment to working with foreign partners and his eagerness to engage with foreign partners months and years after the activity.

In particular, Mr. Addepalli's enthusiasm for building personal relationships with foreign regulators has provided untold value to regulatory commissions abroad and NARUC's ability to build collaborative connections with its partners toward smarter, more sustainable regulatory commissions.

## About the Terry Barnich Award



The Terry Barnich Award honors the memory of former Chairman of the Illinois Commerce Commission (1989 to 1992) Terrence "Terry" Barnich. He was killed on Memorial Day, May 25th, 2009, while working as the Deputy Director of the State Department office overseeing U.S. reconstruction projects in Iraq.

Terry was a dedicated public servant, responding to the call to serve both at home and abroad. He was also an active NARUC member, and the award named in his honor recognizes regulators like him who believe they have a personal responsibility to provide aid and expertise to our partners abroad.



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## Blue Level



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for a changing world

## Media Sponsors



## Registration Open | Location: La Cita

8:00 a.m. - 6:30 p.m.

## Staff Subcommittee on Consumer Affairs | Location: Flores 6

### Here Comes the Sun

9:00 a.m. - 10:15 a.m.

**Panelists:** *Jamie Wimberly*, Chief Executive Officer, DEFG, LLC  
*Daniel Gabaldon*, Director, Enovation Partners

Although the Beatles' song chimed that "It's all right"—is it? This discussion explores the growing impacts of residential solar on utility customer service, providing a snapshot of attitudes held by residential customers overall and by solar adopters. Why and how do customers choose solar? How important are perceived environmental benefits versus savings potential? How are utilities handling their evolving relationship with solar customers? What are the impacts on call centers? Could the growing importance of customer service change customer perceptions of traditional generation and distribution? Join the discussion on the ever-changing customers' attitudes, because we know, "The sun will come out tomorrow."

### Networking Break

10:15 a.m. - 10:30 a.m.

## Beyond Lifeline Reform: Discussion of Other Existing Low-Income Consumer Programs in the Market | Flores 7&8

*(Joint session with the Staff Subcommittee on Telecommunications)*

10:30 a.m. - 11:45 p.m.

**Moderator:** *Phil Boyle*, Vice-Chair, Subcommittee on Consumer Affairs, Oregon

**Panelists:** *Al Lubeck*, Public Policy Director, CenturyLink  
*David Bergman*, Counsel, NASUCA  
*Don Laub*, Vice President of Regulatory Affairs, Comcast  
*Mark Brown*, Vice President & Counsel, Government Affairs, Charter Communications

Many rural and low-income customers now have access to broadband through new and modified provider-sponsored programs. Differences in participation qualifications, services, and program successes and failures will be discussed. Will Lifeline and/or other low-income programs be a broadband lifesaver? Join the discussion to find out.

## Staff Subcommittee on Gas | Location: Flores 1 & 3

### Updates

**9:00 a.m. - 9:30 a.m.**

**Presenter:** *Ron Edelstein*, Director, Regulatory and Government Relations, Gas Technology Institute

### NRRI Update & Regional Regulatory Updates

**9:30 a.m. - 9:45 a.m.**

**Moderator:** *Andreas D. Thanos*, Chair Staff Subcommittee on Gas

**Presenter:** *Ken Costello*, NRRI

Presentation of the latest research activities at NRRI, to be followed by an “open mic” discussion of relevant natural gas-related news.

### Managing Price Volatility in the Competitive Retail Natural Gas Market

**9:45 a.m. - 10:45 a.m.**

**Moderator:** *Andreas D. Thanos*, Chair, Staff Subcommittee on Gas

**Panelists:** *Jennifer Fordham*, Senior Vice President, Government Affairs, Natural Gas Supply Association  
*Ron Cerniglia*, Director Government & Regulatory Affairs, Direct Energy  
*Mark Reese*, Vice President, U.S. Gas Supply, Just Energy  
*Bob Anderson*, Executive Director, Committee of Chief Risk Officers

Gas retail competition has become a reality in most of the country. Over the past 100 years or so, natural gas customers became accustomed to the “regulated price” provided to them by the gas utility. As consumers move to competitive suppliers, these suppliers have to compete with each other in terms of service and pricing, but also with the established safety of the regulated utility prices.

Although gas commodity prices are at the lowest they have been in decades, the potential for an uptick, whether seasonal or otherwise, is always likely. Any price fluctuation, particularly an upward move, will affect the consumer, the supplier, and ultimately the regulatory Commission. It is, therefore, important that we all have a good understanding of “what is available out there.”

The panelists will discuss the near-term outlook and expectations for natural gas based on production trends and regional transportation and storage capabilities. It will review the tools used by the respective companies to ensure that their customers are protected, to the extent possible, from the unpredictability of the market.



## U.S. DOE: Energy Conservation Standards for Residential Furnaces

*(Joint session with the Staff Subcommittee on Energy Resources and the Environment)*

**10:45 a.m. - 11:45 a.m.**

**Moderators:** *Karen R. Olesky*, Chair, Staff Subcommittee on Energy Resources and the Environment  
*Andreas D. Thanos*, Chair, Staff Subcommittee on Gas

**Panelists:** *Ron Edelstein*, Director, Regulatory and Government Relations, Gas Technology Institute  
*Elizabeth Noll*, Legislative Director, Energy & Transportation, Natural Resources Defense Council  
*Craig White*, CEO, Philadelphia Gas Works

On September 23, 2016, the US Department of Energy issued a Supplemental Notice of Proposed Rulemaking (SNOPR) on the Energy Conservation Standards for Residential Furnaces.

According to the DOE, the SNOPR responds to comments received on the September 14, 2015, NOPR and Notice of Data Availability (NODA) and is making a modified proposal regarding amended energy conservation standards for residential furnaces. The notice, further, requests comment on the SNOPR's proposed standards and associated analyses and results. The DOE will accept comments through November 22, 2016.

This SNOPR has already raised some controversy and a robust discussion on the merits of the DOE proposal.

The panel will address the availability of technologies and discuss the level of benefits that can accrue the environment in general and consumers in particular.

## Staff Subcommittee on Rate Design | Location: Flores 5

### We Want Three States!: Arizona, California, and Nevada Staff Discussion

**9:00 a.m. - 10:15 a.m.**

**Moderator:** *Chris Villarreal*, Minnesota

**Panelists:** *Tom Broderick*, Arizona  
*Paul Phillips*, California  
*Stephen St. Marie*, California  
*Anne-Marie Cuneo*, Nevada

This session will feature a discussion amongst staff from the Arizona Commerce Commission, California Public Utilities Commission, and Nevada Public Utilities Commission. Come hear the latest on rate design and related issues as staff from each of these Commissions update the Subcommittee, share information, and gain a better understanding of what is going on at the staff level on the many issues facing Commissions.

## Break

10:15 a.m. - 10:30 a.m.

## Show Me the Numbers: A Framework for Assessing Distributed Solar Policies

10:30 a.m. - 11:00 a.m.

**Panelist:** *Tim Woolf*, Vice President, Synapse Energy Economics

This session will feature a presentation on a recently released report by Synapse on a framework for assessing distributed solar that addresses all issues qualitatively, with a focus on distributed generation development, cost-effectiveness, and cost-shifting.

## Manual on Distributed Energy Resources Rate Design and Compensation (Closed)

11:00 a.m. - 11:45 a.m.

With the final version of the manual now released, attend this closed session to hear details about the final version, including what's changed, what's new, and what's next. Hear from several members of the drafting team on the role and purpose of the manual, and how this might be used by a Commission.

## Subcommittee on Utility Marketplace Access | Location: Flores 4

## Welcome and Opening Remarks

9:00 a.m. - 9:10 a.m.

*Hon. Nikki Hall*, UMA Chairwoman, South Carolina

## Gaining The Competitive Advantage: Successes and Challenges of Diverse Supplier Certification

9:10 a.m. - 10:10 a.m.

**Moderator:** *Stephanie Green*, Supplier Diversity Manager, California Public Utilities Commission

**Panelists:** *Virginia Gomez*, President & CEO, Southern California Minority Supplier Development Council  
*Summer Sepulveda*, Director of Corporate Relations and Community Development, Women's Business Enterprise Council - West  
*Sydney Furbush*, Supplier Diversity Manager, San Diego Gas & Electric  
*Stephanie Hickman*, President & CEO, Trice Construction Company

Given the challenges diverse suppliers have in growing their businesses and in competing in the global economy, it is often necessary for them to partner with major certifying bodies to maximize potential opportunities. Major corporations with supplier diversity programs are members of both state and national advocacy organizations that assist with contracting diverse suppliers. These organizations act as the gatekeepers, so to speak, between diverse suppliers and successful business opportunities and procurement. This panel will examine the relationships between all parties involved in the certification process and potential challenges and successes involved to date and going forward.

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## Morongo Band of Mission Indian's Self-Generation Gas-Fired Power Plants

**10:10 a.m. - 10:25 a.m.**

**Presenter:** *Kevin O. Narcomey*, President and CEO, Osceola Consulting

This presentation will highlight the Tribal Technology Center, its overall business and job creation model, and future plans for expansion in and outside of California.

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## Presentation: 21st Century Innovations in Energy: An Equity Framework

**10:25 a.m. - 10:40 a.m.**

**Presenter:** *Donald Cravins, Jr.*, Senior Vice President for Policy and Executive Director, Washington Bureau, National Urban League

The National Urban League will present an overview of a white paper it released in October 2016 reviewing the current state of the energy industry and setting forth a plan by which the NUL will address various pressing economic and policy issues of concern to the African-American community.

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## Commissioner Discussion: UMA Supplier Diversity Toolkit

**10:40 a.m. - 11:00 a.m.**

**Moderator:** *Hon. Nikki Hall*, UMA Chairwoman, South Carolina

**Presenter:** *Laurie Dowling*, Executive Director, National Utilities Diversity Council

The Supplier Diversity Toolkit was formally launched at the NARUC Annual Meeting in San Francisco. Now, the UMA Committee members will discuss future plans for the Toolkit, including an action plan to retrieve relevant data from each State represented by NARUC.

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## Commissioner Discussion: Subcommittee Name Change

**11:00 a.m. - 11:15 a.m.**

**Moderator:** *Hon. Nikki Hall*, UMA Chairwoman, South Carolina

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## Closing Remarks and Adjourn

**11:15 a.m. - 11:30 a.m.**

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## Staff Subcommittee on Telecommunications | Location: Flores 7 & 8

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## Educational Session – LNPA Transition Update

**9:00 a.m. - 10:15 a.m.**

**Moderator:** *Cary Hinton*, District of Columbia

**Presenter:** *Bill Reilly*, Director, Advisory - LNPA Transition Oversight Manager; PwC Services, LLC.

The North American Portability Management (NAPM) LLC has developed the Transition Oversight Plan to ensure that the migration to the new Local Number Portability Administrator (LNPA), iconectiv, is a success for all stakeholders. Pricewaterhouse Coopers (PwC) was selected by the NAPM as

# Sunday, November 13

the independent third party Transition Oversight Manager to assist the NAPM LLC in overseeing the transition. In this session, PwC will provide an overview of the Transition Oversight Plan and progress on their work to ensure that the transition from Neustar to iconectiv adheres to the plan in critical areas such as risk management, timelines, performance benchmarks and incentives, dispute resolution, testing, stakeholder outreach and education, and security and reliability.

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## Networking Break

10:15 a.m. - 10:30 a.m.

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## Panel III: Beyond Lifeline Reform: Discussion of Other Existing Low-Income Consumer Programs in the Market

10:30 a.m. - 12:00 p.m.

*(Joint session with the Staff Subcommittee on Consumer Affairs)*

**Moderator:** *Phil Boyle, Oregon*

**Panelists:** *Al Lubeck, Public Policy Director, CenturyLink*  
*Don Laub, Vice President of Regulatory Affairs, Comcast*  
*David Bergman, Counsel, NASUCA*  
*Mark Brown, Vice President & Counsel, Government Affairs, Charter Communications*

Many rural and low-income customers now have access to broadband through new and modified provider-sponsored programs. Differences in participation qualifications, services, and program successes and failures will be discussed. Will Lifeline and/or other low-income programs be a broadband lifesaver? Join the discussion to find out.

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## Lunch (On Your Own)

12:00 p.m. - 1:30 p.m.

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## Resolutions Discussion - Staff Final Disposition

1:30 p.m. - 2:45 p.m.

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## Networking Break

2:45 p.m. - 3:00 p.m.



## Panel IV: Lifeline Reform Implementation Task Force - Implementation Update and Roundtable Discussion

**Moderator:** *Greg Doyle*, Minnesota

**Panelists:** *Michelle Garber*, Vice President Lifeline Program, USAC  
*Jessica Zufolo*, Senior Advisor for Strategic Partnerships, USAC

**3:00 p.m. - 5:00 p.m.**

On June 22, 2016, the FCC issued an order modernizing its Lifeline Program to make broadband Internet access service available to qualified low income consumers as early as December 1, 2016. Recognizing the impact to the States from the significant changes outlined in the order, in October NARUC convened the Lifeline Reform Implementation Task Force to work with USAC in consultation with FCC staff. The Task Force has begun work to share information, efficiently identify and resolve key short-term implementation issues, and outline critical outreach for telecom carriers and consumers. This panel will provide an update on the activities of the Task Force to date and engage in interactive discussion of issues and concerns moving forward.

## Staff Subcommittee on Critical Infrastructure | Location: Flores 3

**10:00 a.m. - 11:30 a.m.**

The NARUC Critical Infrastructure Subcommittee will have a small group, closed meeting to discuss any topics of interest. There is no formal agenda. The discussion will be led by the New Jersey Board of Public Utilities.

## Networking Break | Location: Flores Foyer

**10:15 a.m. - 10:30 a.m.**

## New Commissioner Forum (for New Commissioners Only) | Location: Studio

**10:30 a.m. - 1:00 p.m.**

## Washington Action (closed) | Location: Diego Rivera

**10:30 a.m. - 11:45 a.m.**

Agenda to be distributed during the meeting.

## Staff Subcommittee on Energy Resources and the Environment | Location: Flores 1 & 3

### U.S. DOE: Energy Conservation Standards for Residential Furnaces

*(Joint session with the Staff Subcommittee on Gas)*

**10:45 a.m. - 11:45 a.m.**

**Moderators:** *Karen R. Olesky*, Chair, Staff Subcommittee on Energy Resources and the Environment  
*Andreas D. Thanos*, Chair, Staff Subcommittee on Gas

**Panelists:** *Ron*, Edelstein, Director, Regulatory and Government Relations, Gas Technology Institute  
*Elizabeth Noll*, Legislative Director, Energy & Transportation, Natural Resources Defense Council  
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This SNOPR has already raised some controversy and created a robust discussion on the merits of the DOE proposal. The panel will address the availability of technologies and discuss the level of benefits that can accrue the environment in general and consumers in particular.

### Lunch Break: On Your Own

**11:45 a.m. - 1:00 p.m.**

### Telecommunications Modernization Act (closed) | Location: Diego Rivera

**1:00 p.m. - 2:45 p.m.**

Agenda to be distributed during the meeting.

## Committee on Consumer Affairs | Location: Flores 4

### Rural Wireless and Consumers: New Proposals and Issues

**1:00 p.m. - 2:15 p.m.**

**Moderator:** *Hon. Brandon Presley, Mississippi*

**Panelists:** *Hon. Catherine J.K. Sandoval, California*

*Grant Spellmeyer, Vice President, Federal Affairs and Public Policy, US Cellular*

*Mike Oldak, Vice President Strategic Initiatives & General Counsel, Utilities Technology Council*

*David LaFuria, Partner, Lukas Nace Gutierrez & Sachs, LLP*

*H. Russell Frisby, Jr., Partner, Stinson Leonard Street - representing EEI*

The panel will examine recent proposals for a joint federal-State approach to ensuring that rural wireless consumers have access to broadband networks and services comparable to those in urban areas. The panel will address broadband adoption in rural and, by extension, urban areas associated with rural broadband deployment.

### Committee Business Session

**2:15 p.m. - 2:20 p.m.**

### The Price is Right?: Comparing Consumer Tariffs and Their Potential Bill Impacts

**2:20 p.m. - 3:00 p.m.**

**Moderator:** *Hon. Tim Echols, Georgia*

**Panelists:** *Alison Peters Brown, Director of Pricing & Rates, Georgia Power*

*Kelly Speakes-Backman, Senior VP Policy & Research, Alliance to Save Energy; Commissioner Emeritus, Maryland*

Over the last several years new pricing and rate plans have emerged in the electric market. Whether it is prepay, time of use, budget billing, etc., many consumers have new options to choose from. But how do these new options compare to a traditional rate. This panel will explore the many new pricing plans offered to consumers and how consumers are reacting to them, and explore the impact on consumers, as well as the need to educate consumers about these new options.

## Subcommittee and Staff Subcommittee on Pipeline Safety (closed) | Location: Flores 6

### Staff Subcommittee

**1:00 p.m. - 5:00 p.m.**

Agenda to be distributed during the meeting.

### Subcommittee

**1:30 p.m. - 3:00 p.m.**

Agenda to be distributed during the meeting.

# Sunday, November 13

## Staff Subcommittee on Law | Location: Flores 3

**1:00 p.m. - 5:00 p.m.**

Agenda to be distributed during the meeting.

## Staff Subcommittee on Electricity and the Staff Subcommittee on Electric Reliability | Location: Flores 5

*(Joint Meeting)*

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### Aliso Canyon Operational Update: Keeping the Lights on in Southern California: A Story of Cross-Industry Coordination and Communication

**1:15 p.m. - 2:00 p.m.**

**Moderator:** *Patricia Poli*, Chair, NARUC Staff Subcommittee on Electric Reliability

**Speaker:** *Steve K. Ashbaker*, Director Events Analysis & Situational Awareness, WECC

In October of 2015, a gas leak was detected in one of the 115 natural gas injection/withdrawal wells in the Aliso Canyon natural gas underground storage facility. This facility is the second largest natural gas storage facility in the west and is critical to the electric reliability of southern California. During typical summer operations, the 86 billion cubic feet of capacity provides fuel for 17 electric generating plants, with a combined capacity of 9800 MW. And in the winter, the core typical demand for the gas supply flips, with residential and small commercial customers using 60 percent of the facility's gas for heating.

By the time the leaking well was sealed permanently in the early spring of 2016, about 80 percent of its capacity was lost and the entire facility was shut-in indefinitely. Given the unprecedented number of electric generation plants counting on just-in-time gas delivery from Aliso Canyon, and the minimal amount of time to plan for alternate deliveries, how did California keep the lights on in the summer of 2016, and what provisions will assure winter operations? Our speaker will describe the unprecedented level of coordination and communication across agencies and industries required to serve customers reliably.

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### Grid Modernization: Consumer Impacts and Perspectives

**2:00 p.m. - 3:00 p.m.**

**Moderator:** *Kimberly Duffley*, Attorney, North Carolina Utilities Commission and Vice-Chair of the Staff Subcommittee on Electricity

**Panelists:** *Nathan Shannon*, Deputy Director, Smart Grid Consumer Collaborative  
*Ken Costello*, Principal Researcher, Energy & Environment, National Regulatory Research Institute

Growing customer engagement has been a driving force behind transformation of the U.S. electric industry. We should expect more customer engagement in the future, but some customers will remain passive. Now, several years after the American Recovery & Reinvestment Act grants provided funding for the smart grid, many benefits of these investments are being realized by consumers. We will discuss research that examines how investments in grid modernization and smart grid technologies are empowering consumers to break the mold of passive consumption and become dynamic users. Both utilities and regulators will face new challenges in the emerging world of active and passive customers. Our speakers will share insights into the consumer perspective on the customer/utility relationship of the future.



## Taskforce on Transportation | Location: Flores 1 & 2

### Welcome

**3:00 p.m. - 3:05 p.m.**

**Moderators:** *Hon. Gladys Brown, Pennsylvania*  
*Hon. Ann Rendahl, Washington*

### Town Hall on Transportation Issues

**3:05 p.m. - 3:50 p.m.**

**Panelists:** *Curtis Scott, Senior Legal Director, Regulatory & Insurance, Uber*  
*Michael Farren, Economist, Mercatus Center at George Mason University*  
*Lyft Representative, TBA*  
*John Clarke, James River Insurance Co.*

In the enabling Charter for the NARUC Transportation Taskforce, the Motor Carrier Section was charged with “compiling best state practices to modify common carrier laws in light of new business models and a trend toward competitive entry.” To fulfill this mission, the Taskforce sought input from NARUC members on the common issues that arise when regulating Transportation Network Companies (TNCs). Over the past several months, the Taskforce has gathered information from NARUC members about how individual states regulate TNC service, including the issues and best practices that have emerged. Now that the Taskforce has a comprehensive summary of state regulators’ perspectives on these issues, we are seeking industry and stakeholder input on the same topics, which include jurisdictional issues, driver safety, vehicle safety, insurance, and rates.

### Question and Answers

**3:50 p.m. - 4:00 p.m.**

### Break

**4:00 p.m. - 4:10 p.m.**

### Town Hall on Rail Issues

**4:10 p.m. - 4:20 p.m.**

**Moderator:** *Hon. Ann Rendahl, Washington*  
**Panelists:** *Railroad Working Group Staff, TBA*

The NARUC Executive Committee established the Taskforce on Transportation, in part, address the recent increases in the transportation of crude oil by railroad companies and the concerns of NARUC members and state railroad programs about railroad safety. The Working Group on Railroad Safety was formed to consider generating a document compiling information on state and federal authority over railroad safety, the transportation of crude oil, and the recent developments at the State and federal level in those areas. Over the past several months, the Working Group coordinated meetings, education sessions and requested focused industry feedback to inform the drafting of its Report on Railroad Safety.

# Sunday, November 13

The Working Group has prepared a draft of issues, challenges, best practices, and authorities related to the regulation of railroad safety and is seeking input from interested stakeholders and member States on additional issues that should be addressed and ways to make the report more useful as a tool for States.

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## Comments from Interested Parties

4:20 p.m. - 5:00 p.m.

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## Committee on International Relations | Location: Flores 4

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### The Wide World of NARUC – Welcome and Introductions

3:15 p.m. - 3:30 p.m.

*Hon. David Danner, Washington*

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### Approval of Minutes/Resolutions

3:20 p.m. - 3:25 p.m.

*Hon. David Danner, Washington*

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### Remarks by Terry Barnich Award Recipients

3:25 p.m. - 3:35 p.m.

**Moderator:** *Hon. David Danner, Washington*

**Panelists:** *Hon. Philip Jones, Washington*  
*Raj Addepalli, New York*

The Terry Barnich Award is presented annually by the International Relations Committee to commissioners or staff in recognition of outstanding efforts to further international cooperation among utility regulators and to promote professional regulation. This year's winners will deliver brief remarks.

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### Live from Marrakech: A Report on COP 22 – Marrakech

3:35 p.m. - 4:00 p.m.

**Moderator:** *Hon. David Danner, Washington*

**Panelist:** *Jonathan Pershing, Special Envoy for Climate Change, U.S. Department of State (invited)*

As the 22nd Conference of Parties to the United Nations Framework Convention on Climate Change reaches its midway point, one of the key members of the U.S. delegation will give an update on the proceedings.

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## Update on Energy Reform in Mexico

4:00 p.m. - 4:20 p.m.

**Moderator:** *Hon. David Danner*, Washington

**Panelist:** *Hon. Guillermo García Alcocer*, Chairman, Energy Regulatory Commission of Mexico

The International Relations Committee has been following the implementation of energy reforms in Mexico. That country's new chief energy regulator will provide a progress report.

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## The 2016 DOE-Sponsored Commissioners' Mission to China: Major Lessons

4:20 p.m. - 4:40 p.m.

**Moderator:** *Hon. Travis Kavulla*, Montana and NARUC President

**Panelists:** *Hon. Sherina Maye Edwards*, Illinois

*Hon. Elizabeth Jacobs*, Iowa

*Hon. Sandy Jones*, New Mexico

*Hon. David Ziegner*, Indiana

*Mr. Robert Gee*, President, Gee Strategies Group LLC

For the third year, the US Department of Energy sponsored a Utility Commissioner Clean Energy Technology and Policy Mission to China. During this four-city, two-week mission, the five-Commissioner delegation saw firsthand the demonstration of cutting-edge energy technologies and participated in discussions on energy market reforms and carbon emissions trading. This session will allow them to share their major takeaways.

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## Preview of 27th World Gas Conference

4:40 p.m. - 4:45 p.m.

**Presenter:** *Hon. Diane Burman*, New York

A look ahead to the next triennial meeting of the International Gas Union, which will be held in Washington, D.C., in June 2018.

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## EI International Activities Mid-year Report

4:45 p.m. - 4:50 p.m.

**Presenter:** *Elizabeth Stipnieks*, Director, Regulatory Relations, Edison Electric Institute

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## Report on NARUC International Programs

**4:50 p.m.**

**Presenter:** *Erin Hammel*, Director of International Programs, NARUC

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## Committee on Critical Infrastructure | Location: Flores 5

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### Updates from Partners

**3:15 p.m. - 3:50 p.m.**

*Matt Duncan*, Program Manager, U.S. Department of Energy

*Sue Gander*, Director, National Governors Association Center for Best Practices

*David Batz*, Senior Director, Cyber & Infrastructure Security, Edison Electric Institute

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### Discussion of Catalog of Information on Cyber/Physical Measures Taken by States to Protect Critical Infrastructure

**3:50 p.m. - 4:25 p.m.**

**Discussion leader:** *Lynn Costantini*, Cyber Security Specialist, New Jersey BPU

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### States and Industry Discuss Costs Associated with Physical and Cybersecurity Upgrades

**4:25 p.m. - 4:45 p.m.**

**Moderator:** *Hon. Nick Wagner*, Iowa

**Panelists:** *Hon. Dody Fort*, District of Columbia

*Billy Ball*, Chief Transmission Officer, Southern Company

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### Resolutions

**4:45 p.m. - 5:00 p.m.**

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## Networking Break | Location: Flores Foyer

**3:45 p.m. - 4:00 p.m.**

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## Welcome Reception | Location: Fiesta Ballroom

**5:00 p.m. - 6:30 p.m.**



The background of the advertisement is a photograph of a modern city street with tall glass skyscrapers and cars. Overlaid on the image are several white line-art icons: a house with a sun-like symbol in the bottom left, a car with a circular arrow around it in the bottom center, and a cloud with a server rack icon and arrows pointing towards it in the middle right.

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## Committee on Telecommunications | Location: Flores 7 & 8

### State Regulatory Process Considerations in National Lifeline Verification

9:00 a.m. - 10:30 a.m.

**Moderator:** *Hon. Johann Clendenin*, Virgin Islands

**Panelists:** *Hon. Gregg Sayre*, New York

*Hon. Betty Ann Kane*, District of Columbia

*Hon. Catherine Sandoval*, California

*Ryan Palmer*, Division Chief, FCC Telecommunications Access Policy Division

*Michelle Garber*, Vice President, Lifeline Division of USAC

*Kevin G. Rupy*, Vice President, Law & Policy, USTelecom

*Delreo Newman* – (Invited) Director of International Regulatory and Government Affairs, Atlantic Tele-  
Network, Inc.

The FCC Order, “Lifeline and Link Up Reform and Modernization” adopts reforms to make the Lifeline program a key driver of the solution to our nation’s broadband affordability challenge. Panelists will examine national verification challenges. USAC, the agent for the FCC’s Universal Service Programs, will give a briefing on the steps taken on the development of a national verifier model for Lifeline ETC designations and other implementation activities. NARUC Commissioners and telecommunications industry representatives will review State regulatory oversight of telephone, wireless, and broadband and strategies for providing human services data information and established efforts to provide Lifeline verification.

### FCC Consumer and Governmental Affairs Bureau Chief Alison Kutler

10:30 a.m. - 11:00 a.m.

### Committee on Telecommunications Business Meeting

11:00 a.m. - 11:45 a.m.

**Chairman:** *Hon. Chris Nelson*, South Dakota

**Co-Vice Chairs:** *Hon. Catherine Sandoval*, California

*Hon. Paul Kjellander*, Idaho

### The Challenges of Produced Water Storage and Disposal

9:00 a.m. - 10:15 a.m.

**Moderator:** TBA

**Panelists:** Jill Cooper, Manager, Reporting and Advocacy, Anadarko Petroleum Corporation  
Panelist TBA  
Panelist TBA

Produced water, a byproduct of natural gas and oil exploration and production, presents challenges for storage and disposal. The panel will discuss those challenges and the role that State regulators will have in the storage and disposal of produced water.

### Irrigation and Large Volume Water Use: Balancing Economic Interests, Conservation Efforts, and Rate Impact

10:30 a.m. - 11:30 a.m.

**Moderator:** Hon. Mary-Anna Holden, New Jersey

**Panelists:** Don Distante, Director of Planning and Strategic Projects, SUEZ North America  
Tracy Quinn, Policy Analyst, Water Program, Natural Resources Defense Council  
Jim Schmid, Director of Agronomy, The Lakes Country Club  
William J. Steele, Area Manager, Southern California Area Office, United States Department of Interior, Bureau of Reclamation (Invited)

Irrigation and other large-volume water use sustain important economic interests, including agriculture and recreational activities such as the golf course industry. The panel will discuss what efforts are being undertaken to improve irrigation practices to sustain those interests while engaging in conservation practices. The panel will also discuss how State regulators and the water utilities they regulate can facilitate improved irrigation practices.

### Business Meeting

11:30 a.m. - 11:45 a.m.

Items of Business of the Water Committee will be covered, including discussion and action on resolutions and approval of the minutes from the Summer Meetings. Additionally, updates from the various partners of the Water Committee will be given, including NAWC, NARUC, WRF, NRRI, and NARUC's Rate School. Members of the Committee will also have time to brief the Committee on activities of interest in their States.

## Committee on Gas | Location: Flores 5

### Putting the Pedal to the Metal—But Will Natural Gas Hit a Brick Wall?

9:00 a.m. - 10:15 a.m.

**Moderators:** *Hon. Stan Wise, Georgia*

*Hon. Diane X. Burman, New York*

**Panelists:** *Hon. Mark Vannoy, Maine PUC*

*Tony Clark, Former FERC Commissioner*

*Richard Kruse, V.P. Regulatory and FERC Compliance Officer, Spectra Energy*

*Kevin Reilly, LIUNA International Representative, Construction Department*

*Julien Dumoulin-Smith, Executive Director, Electric Utilities, UBS Investment Research, UBS Securities LLC*

*Dena Wiggins, President, Natural Gas Supply Association*

Recent infrastructure projects have faced opposition from a wide and varied group of known and also previously unknown special interests. Small, but vocal, groups have voiced opposition to projects ranging from LNG export terminals to new gas pipeline construction. Regulators and legislators alike have discovered that this new environment requires careful navigation and an uptick in procedural elements before regulators and court challenges as well. One such case study in New England saw the Massachusetts Supreme Judicial Court denying the State PUC's authorization for electric distribution companies to procure available gas capacity in an effort to secure a low-cost, more reliable natural gas supply for electric generation. The Court's decision has wide ranging implications for Massachusetts and the region. Given this context, is it possible to develop, permit, and construct major new natural gas infrastructure projects? What can the pipeline industry; end-user utilities; State regulators; FERC; and other regional, State, and federal stakeholders do to facilitate safe and reasonable development of critical industry, when even legally permitted projects are being successfully blocked from construction? Is additional pipeline capacity needed as a backstop to develop renewable energy and to allow customers heating their homes with oil to shift to natural gas?

### Business Meeting, Committee on Gas

10:30 a.m. - 10:55 a.m.

**Chairs:** *Hon. Stan Wise, Georgia*

*Hon. Diane X. Burman, New York*

*Hon. Julie Fedorchak, North Dakota*

#### Agenda

- Approval of minutes of the July 2016 Meeting
- Discussion on possible honorary resolutions
- Other business that may come before the committee

## The Future of Gas: Synergies Between Natural Gas and Renewable Generation

10:55 a.m. - 11:45 a.m.

**Moderators:** *Hon. Julie Fedorchak*, North Dakota  
*Hon. Sherina Maye Edwards*, Illinois

**Panelists:** *Larry Godlasky*, Director, Government Affairs, UGI Energy Services, LLC  
*Dr. Ira H. Shavel*, Principal, The Brattle Group  
*Paul DeCotis*, West Monroe  
*Ralph LaRossa*, President and COO, Public Service Electric & Gas  
*Kenan Ogelman*, VP Commercial Operations, Electric Reliability Council of Texas  
*William Siderewicz*, Clean Energy Future (invited)

Although the “utility of the future” gets a lot of attention on the electric side of the industry, the gas sector nationwide represents several possibilities in terms of distribution, retail services, and customer choice. Grid operators are seeing a significant increase in variable renewable energy resources, reaching 30 to 40 percent of demand at times in some regions (e.g., ERCOT). This variability can cause reliability issues and grid stability problems. Natural gas generation is a good complement to variable energy, as NG generation is flexible and can quickly cycle up and down. More renewable, variable energy on the grid will lead to the need for more gas generation to maintain stability. This panel will discuss the unique perspective of the gas industry as it relates to the future of the utility and how synergies exist between natural gas and renewable generation and how to work to coordinate the two.

## Committee on Energy Resources and the Environment | Location: Flores 1 – 3

### Business Meeting

9:00 a.m. - 10:15 a.m.

#### Introductions

*Hon. Nancy Lange*, Minnesota, Chair  
*Hon. Donna Nelson*, Texas, Co-Vice Chair  
*Hon. Jeannette Mills*, Maryland, Co-Vice Chair

#### Consideration of Resolutions

#### Commissioner Roundtable

#### Clean Power Plan Discussion

*Commissioner Emeritus Doug Scott*



## Distributed Resources for Disaster Response and Grid Resiliency

10:30 a.m. – 11:45 a.m.

**Moderator:** *Hon. Jeannette Mills*, Maryland

**Panelists:** *Kate Bowman*, Solar Project Coordinator, Utah Clean Energy  
*Cal Broomfield*, Climate and Energy Strategic Program Development, Department of Environment  
Department of Defense (invited)  
*Sarah Wright*, Executive Director, Utah Clean Energy

Federal agencies like the Department of Defense and State and local governments are designing and building distributed energy systems, often in combination with energy storage, to support the continued operation of critical infrastructure during grid outages, natural disasters, and other emergencies. Unlike individual backup generators, these resources also provide value to consumers and to the grid during periods of normal (non-emergency) operation. This panel will explore the costs and benefits of using distributed resources for resiliency and the operational characteristics of projects underway in various locations.

## Committee on Electricity | Location: Flores 4

### Location, Location, Location, and the Value of Distributed Energy Resources

9:00 a.m. - 10:00 a.m.

**Moderator:** *Hon. Edward Finley*, North Carolina

**Panelists:** *Bruce Rogers*, Technical Executive, Power Systems Analysis, EPRI  
*Susan Tierney*, Senior Advisor, Analysis Group, Inc.

Electric utilities are changing how they plan and operate their facilities as a result of policy incentives, technological improvements, and consumer choices that promote the increased use of distributed energy resources (DER). DER integration policies in California, New York, and elsewhere will require utilities to more inclusively account for distributed resources and to identify where DER can be best integrated to provide the greatest benefit to the entire electric system. This panel will discuss the technical and policy implications of a landmark study with Consolidated Edison of New York and Southern California Edison that demonstrated methods for valuing the temporal and spatial effects of DER on both radial and network distribution systems.

# Monday, November 14

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## Repercussions from the Loss of the Aliso Canyon Gas Storage Facility

10:00 a.m. - 10:30 a.m.

**Speaker:** *Hon. Catherine Sandoval, California*

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## Earthquake Impacts from Wastewater Injection from Oil and Gas Production

10:30 a.m. - 11:00 a.m.

**Speaker:** *Hon. Dana Murphy, Oklahoma*

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## DOE-Sponsored 2016 Mission to China: Major Lessons

11:00 a.m. - 11:15 a.m.

**Speakers:** *Hon. Libby Jacobs, Iowa*  
*Joseph Giove, Director of Business Operations of the Clean Coal Office, US DOE*

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## Business Meeting

11:15 a.m. - 11:45 a.m.

**Resolutions**

**Regulatory Update**

*Jennifer Murphy, NARUC Assistant General Counsel*

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## Staff Subcommittee on Law | Location: Diego Rivera

9:00 a.m. - 11:45 a.m.

Agenda to be distributed at the meeting.

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## Networking Break

10:15 a.m. - 10:30 a.m.

## Regulators Luncheon (Commissioners, Staff, and Commissioners Emeritus) | Location: Waterfall Lawn

11:45 a.m. - 1:30 p.m.

## Opening General Session | Location: Fiesta Ballroom

### Welcome to the NARUC 128th Annual Meeting!

1:30 p.m. - 3:00 p.m.

National Anthem by the La Quinta High School Band

Reflection on 2015-2016 Year as President: *Hon. Travis Kavulla*, Montana

### Presentation of the Terry Barnich Award (see page 6)

The Terry Barnich Award recognizes the ongoing commitment of NARUC members to furthering regulatory best practices around the globe.

### Election of 2016 - 2017 Officers and Confirmation of Board Members

#### **Nomination of NARUC President**

*Hon. Gladys Brown*, Pennsylvania

#### **Second Nomination of NARUC President**

*Hon. Doug Little*, Arizona

#### **Nomination of NARUC 1st Vice President**

*Hon. Phil Jones*, Washington

#### **Second Nomination of NARUC 1st Vice President**

*Hon. David Ziegner*, Indiana

#### **Nomination of NARUC 2nd Vice President**

*Hon. Lisa Edgar*, Florida

#### **Second Nomination of NARUC 2nd Vice President**

*Hon. Donna Nelson*, Texas

### Reflections on Public Service: Tony Clark

With more than 20 years of public service, former FERC Commissioner Tony Clark will provide an interesting, thoughtful retrospective of his roles in State and federal government, which include:

FERC Commissioner 2012 -2016

NARUC President, November 2010-November 2011

North Dakota Public Service Commission, 2000-2012

North Dakota House of Representatives, 1994-1997

## Networking Break | Location: Flores Foyer

3:00 p.m. - 3:30 p.m.

## Section A | Concurrent Sessions *(See session for location.)*

3:30 p.m. - 4:45 p.m.

### A1—The Architecture of Modern Telecommunications & What It Says About Competition | Location: Flores 6

**Moderator:** *Hon. Upendra Chivukula, New Jersey*

**Participants:** *Hon. Sarah Hofmann, Vermont*  
*Hon. Chris Nelson, South Dakota*  
*Earl Comstock, Principal, Fish-Net Consulting, PLLC*  
*Marvin Sirbu, Professor, Engineering & Public Policy, Carnegie Mellon University*

What is regulated (or not) in the world of communications depends on whether there is sufficient competition for the service in question. Some services (long-distance) are obviously competitive; others (special access on which business data service relies) perhaps less so. This informative tutorial walks through the architecture of the modern telecom world and identifies the places that are wide open for competition and those that are bottlenecks.

### A2—A Wholesale Market for Water: Do We Need an ISO? | Location: Flores 7-8

**Moderator:** *Hon. Doug Little, Arizona*

**Participants:** *Hon. Catherine Sandoval, California*  
*Frank A. Wolak, Director, Program on Energy and Sustainable Development, Professor, Department of Economics, Stanford University*  
*Thomas Smegal, Vice President, CFO & Treasurer, California Water Service Group*  
*Disque Deane, Jr., CIO and Co-Founder, Water Asset Management*

As water scarcity becomes an increasing issue, especially in the western states, new and creative ideas to address the cost of water resources. Wholesale rates for water can differ widely, especially between urban drinking water and rural agricultural uses. In the electric industry, RTO/ISOs create a market for pricing the commodity. Participants will discuss the applicability of locational marginal pricing to the water industry to ensure that increasing water scarcity can be managed at least cost, for the benefit of all customers. Attendees will learn what adaptations from electricity market design would be necessary to model the hydrological, environmental, and legal constraints of water supply.

### A3—Market Darlings: Understanding the Appeal of Regulated Utilities in Today's Capital Markets | Location: Flores 1-2

**Moderator:** *Hon. David Ziegner, Indiana*

**Participants:** *Hon. Moin Yahya, Alberta Utilities Commission*  
*Randy Woolridge, Professor of Finance, The Goldman, Sachs and Frank P. Smeal Endowed University Fellow in Business Administration, President, Nittany Lion Fund, LLC, The Pennsylvania State University*

Utilities are trending hard on Wall Street and are red hot for investors seeking to mobilize capital. Just how sweet of a deal are utilities getting? Debt has never been cheaper, but utilities resist the opportunity to debt-finance big investments, maintaining a capital structure that is still heavier on equity than their peers in Canada. Meanwhile, authorized returns on equity have fallen only slightly and not as much as treasury

rates have. Participants will learn what the underlying economics are and hear why financial players are responding with such interest.

## A4—Charging Ahead: Rate Design & Electric Vehicles | Location: Flores 4

**Moderator:** *Hon. Jeannette Mills, Maryland*

**Participants:** *Hon. Carla Peterman, California*

*Hon. Norm Saari, Michigan*

*Bob Jenks, Oregon Citizens' Utility Board*

Electric vehicles are on the street and charging all around us, so what are the rules of the road? This session will review the role of the Commission, utilities, and the stakeholders when it comes to electric vehicle rate design. State Commissioners will highlight proceedings that have discussed the appropriate role of the utility in investing in electric vehicle charging infrastructure and whether it will be rate based, or 'below the line' as an unregulated enterprise. Attendees will hear about the year-long investigation the State of Oregon initiated, as well as pilot projects California has underway. Attendees will learn about six factors the State of Oregon used for consideration when determining whether to grant cost recovery.

## A5—Into Darkness: The Use of Interactive Exercises to Reduce Unknowns for Commissions | Location: Flores 5

**Moderator:** *Hon. Rick Mroz, New Jersey*

**Participants:** *Hon. Gladys Brown, Pennsylvania*

*Hon. Phil Jones, Washington*

Many infrastructure challenges come from preparing for events that have never happened before. These "unknown unknowns" may be impossible to predict until after they've happened. A number of State Commissions have used tabletop exercises to help prepare for unpredictable events like earthquakes, cyber-attacks, terrorism, and even more mundane threats like rapid changes in technology and markets or renewable energy adoption. Commissions will learn how other States have learned from the interactive approach of using tabletop exercises. Commissions will hear about success stories and how they can replicate this preparedness. Stakeholders will learn how interactive exercises can contribute to building strong partnerships between public and private sectors, which is an essential precursor for effective communication in emergencies. A mini-interactive demonstration will be produced to illustrate some of the ways this approach can help your Commission navigate the unknown.

## Regional Meetings (invitees only)

5:00 p.m. - 6:00 p.m.

**MACRUC | Location: Fiesta 14**

**MARC | Location: Fiesta 13**

**NECPUC | Location: Studio**

**SEARUC | Location: Fiesta 10**

**Western | Location: Diego Rivera**



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## Tuesday General Session | Location: Fiesta Ballroom

9:00 a.m. - 10:15 a.m.

### The Election's Finally Over. What Next for Energy & Telecom Policy?

**Moderator:** *Hon. Travis Kavulla, Montana*

**Participants:** *Bill Ritter Jr., Former Colorado Governor, Founder and Director of the Center for the New Energy Economy (CNEE) at Colorado State University*  
*Devin Hartman, Electricity Policy Manager, R Street Institute*  
*Patrick J. McCormick III, Chief Counsel, Committee on Energy & Natural Resources, United States Senate (pending Senate schedule)*  
*Adam Bender, Associate Editor, Communications Daily*

In January, there will be a new administration and a new Congress. What will be their priorities? Perhaps more importantly, what **should** they be for the energy and telecom sectors?

This panel provides a read-out of what we know, what to look for, and offers ideas for reforms of the seminal laws and regulations that govern the regulated utility space.

## Networking Break | Location: Flores Foyer

10:15 a.m. - 10:45 a.m.

## Section B | Concurrent Sessions *(See session for location.)*

10:45 a.m. - 11:45 a.m.

### B1—A Roadmap for a Successful Stakeholder Process | Location: Flores 5

**Moderator:** *Hon. Ellen Nowak, Wisconsin*

**Participants:** *Michael Champley, Commissioner Emeritus, Hawaii*  
*Cindy Schonhaut, Consumer Advocate, Colorado*  
*Elizabeth Upchurch, Senior Program Manager, Stakeholder Relations, Tennessee Valley Authority*  
*John Sterling, Senior Director of Research & Advisory Services, Smart Electric Power Alliance*

Before that thorny issue becomes a full-blown contested case before your Commission, consider engaging in a stakeholder process. But what does that mean? What does a successful one look like? Failure to engage a stakeholder process could lead to negative consequences such as protests and disruptions that detract from the issues. How do you prevent stakeholder engagement from just being a talk-a-thon leading up to a whole lot of nothing? Hear from stakeholders who will present their ideas about how to make the process work. Learn what tools are needed and how to map successful implementation. Also, learn how to evaluate the effectiveness of the process.

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## B2—Methane Regulation: The Achilles Heel of Natural Gas? | Location: Flores 1-3

**Moderator:** *Hon. Diane Burman, New York*

**Participants:** *Ralph LaRossa, President and COO, Public Service Electric & Gas*  
*N. Jonathan Peress, Air Policy Director, US Climate and Energy, Environmental Defense Fund*  
*Thomas Hutchins, P.E., Vice President of Environmental, Health and Safety, Kinder Morgan*  
*Andrew Woerner, Partner, ERM*  
*PHMSA, Senior Staff Representative*

Plan to attend this unscripted and honest discussion on the PHMSA pending rulemakings on safety issues and on other planned regulations that may help determine how durable a future natural gas has as the default fuel for American electric generation. Background: The EPA released sweeping rules targeting methane emissions from new or modified oil and gas wells, as well as equipment that transports and stores oil and natural gas. The regulations drew sharp criticism as costly and unnecessary. EPA says the new rules will cost operators at least \$530 million – adding more financial burdens to a stressed industry laboring under comprehensive oversight. The EPA also signaled plans to apply similar rules to existing rigs/equipment and sought more data from industry to study how to further contain emissions.

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## B3—Exploring Performance-Based Regulation | Location: Flores 4

**Moderator:** *Hon. Kenneth Anderson, Texas*

**Participants:** *Hon. Ken Quesnelle, Ontario Canada*  
*Sonia Aggarwal, Director of Strategy, Energy Innovation*  
*Lisa Frantzis, Senior Vice President, Advanced Energy Economy*

Some jurisdictions have moved away from the model of a return-on-rate-base/cost-of-service regulatory model, and have instead targeted utility revenues to establish measures of performance, such as customer satisfaction and reliability. This panel presents a few case studies on what has worked—and what hasn't. In this session, participants will learn what experiences States and other countries have had in using performance-based regulation, as well as exploring what recommendations exist for implementing it at pilot or scale in your jurisdiction.

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## B4—Catch Me if You Can! Can New Technologies Stop Spoof Callers? | Location: Flores 6

**Moderator:** *Hon. Karen Charles Peterson, Massachusetts*

**Participants:** *Hon. Brandon Presley, Mississippi*  
*Debra Berlyn, President, Consumer Policy Solutions*  
*Michael Brady, SVP, State Regulatory Affairs, Comcast*  
*Brent Struthers, Senior Policy Advisor, Neustar, Inc.*  
*Linda Vandeloop, AVP External Affairs, AT&T*

Consumers are increasingly inundated (and annoyed) by robo calls. While there are many legitimate robo calls, the ease with which phone numbers can be faked, or “spoofed,” has led to a proliferation of scam calls. Rampant spoofing has undermined State and federal “Do Not Call” lists and this makes identification of culprits and enforcement action difficult. Attendees will learn about new technologies that allow consumers to block unwanted calls. Attendees will understand the enforcement efforts at the State and federal level.

## B5—Is Bigger Better? What You Need to Know about Mergers and Acquisitions |

### Location: Flores 7-8

**Moderator:** *Hon. Willie Phillips*, District of Columbia

**Participants:** *Hon. Thomas Gorak*, Hawaii

*Dan Ford*, Managing Director, Barclays

*Elin Katz*, Consumer Counsel, Connecticut Office of Consumer Counsel

*Richard F. McMahon, Jr.*, Vice President, Energy Supply and Finance, Edison Electric Institute

With a few high-profile deals already done, another rejected, two recently announced, and at least another 10 utility companies looking ripe for takeovers, now is a good time to ask whether bigger is better. Experts will discuss why they are happening and how commissions should review them. Attendees will learn the reasons why—despite the time and controversies involved—utilities seek to merge with or acquire other utilities. Commissioners and staff will gain insight on different approaches to reviewing proposals and will learn how to spot the salient issues at stake.

## Networking Break | Location: Flores Foyer

11:45 a.m. - 12:00 p.m.

## Section C | Concurrent Sessions *(See session for location.)*

12:00 p.m. - 1:00 p.m.

## C1—How to Consider Big Data in Prudence Reviews and Rate Cases | Location: Flores 4

**Moderator:** *Hon. Brien Sheahan*, Illinois

**Participants:** *Christopher Franklin*, President & CEO, Aqua American Inc.

*Dian Grueneich*, Board of Advisors, FirstFuel and Senior Research Scholar, Stanford University and Commissioner Emeritus, California

*Nikhil Krishnan*, VP of Products, C3 IoT Inc.

*Kristin Munsch*, Deputy Director, Illinois Citizens Utility Board

*Kyle Seymour*, President, S&C Electric

Big data is becoming an invaluable tool to power, water, gas, and telecommunications companies. The power of the Cloud and predictive analytics are opening up services and markets that were unimaginable five years ago. Participants will answer the tough questions: What are the most promising leads? What are the trade-offs, cautions, and wait-and-see areas? Do regulatory structures create barriers, and if so, what can we do about it? What can we do to get out of the way? All attendees will learn about accounting and ratemaking implications of utility expenditures on remotely hosted software. Commissioners and staff will learn what opportunities can be realized for utilities and rate payers from big data analytics, what regulatory structures create barriers and how to remove them, and how to judge which investments are prudent in terms of preserving optionality for future innovative issues? Stakeholders will learn how to navigate those regulatory barriers.

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## C2—Is There a Federal Infrastructure Package in Our Future? | Location: Flores 5

**Moderator:** *Hon. Robert Powelson, Pennsylvania*

**Participants:** *Hon. Mary Anna Holden, New Jersey*

*Karen Harbert, President and CEO, U.S. Chamber of Commerce's Institute for 21st Century Energy*

*Anthony F. Earley, Jr., Chairman, CEO and President, PG&E Corporation*

*Walter Lynch, Chief Operating Officer, American Water*

For years Congress has been discussing new ways to fund investment to upgrade and repair aging infrastructure across the country. The recent events in Flint, Michigan have shed new light on the infrastructure challenges facing our nation. ASCE issues grades for the different infrastructures: Energy – D+; Drinking Water – D; Waste Water – D. Overall ASCE estimated that \$3.6 trillion in investment is needed by 2020 to bring all infrastructure up to a passing grade. The question is how to pay for it? Presidential and congressional candidates are increasingly talking about the need to invest in America's infrastructure. With a new President and new Congress the initiative may get some traction in 2017. If so, what form would this federal funding take? What priorities would States and the utility sector be looking for in such funding?

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## C3—RTO/ISO Governance: When Should States Lead, Follow or Get Out of the Way? | Location: Flores 6

**Moderator:** *Hon. Sarah Hofmann, Vermont*

**Participants:** *Hon. Asim Haque, Ohio*

*Hon. Angela Weber, Indiana*

*Paul Suskie, Southwest Power Pool*

*Stacey Crowley, California ISO*

States are all over the map in terms of their involvement in the decision-making process of ISOs and RTOs. Should they be in the driver's seat on certain questions, like transmission cost allocation and resource adequacy, or should they tend to their knitting back home? State representatives will share their experience on the regional state committees that do everything from making decisions to providing advice to the multi-state organized markets. Commissioners and staff will learn about different approaches to the RTO/ISO stakeholder processes, the most effective ways to participate; how regional RTO/ISO committees differ from and interact with regional NARUC organizations; and what actions within and outside the stakeholder process can have the most impact. Stakeholders will hear about Commission priorities and learn about best methods to engage with Commissions on RTO/ISO issues.

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## C4—Storage: A Power System Game Changer? | Location: Flores 1-3

**Moderator:** *Hon. Matthew Schuerger, Minnesota*

**Participants:** *Hon. Liane Randolph, California*

*Kiran Kumaraswamy, Market Development Director - AES Energy Storage*

*Steve Willard, Technical Executive - Energy Storage and Distributed Generation, EPRI*

A variety of storage technologies are capable of providing grid-supporting functions. Participants will discuss how the latest research on power system storage, including large-scale and aggregated small scale stationary batteries, hold potential to support the power grid, and what the latest technology and cost trends are. Commissioners and others will learn how it can be evaluated in the context of an IRP.

Lastly, attendees will learn what types of services storage provides that should be paid for in an RTO setting, including what the different rules are for different types of storage systems, and what initiatives are helping or hindering incorporation of electric storage assets into the wholesale markets.

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## C5—The Price of Privacy | Location: Flores 7-8

**Moderator:** *Hon. Crystal Rhoades, Nebraska*

**Participants:** *Claude Aiken, Legal Advisor, Wireline, FCC*  
*Doug Brake, Telecom Policy Analyst, Information Technology and Innovation Foundation*  
*Dallas Harris, Policy Fellow, Public Knowledge*  
*Kevin Rupy, US Telecom*

This panel will look at privacy practices and policy issues in the telecom, water, and electric sectors. It will explore what each sector can learn from the experience of the other. It will examine current policy debates at the federal and state level. In addition, the panel will look at “pay for privacy” plans – are they being seen in other utility sectors or just Telecom? Will the “Market” be effective in “regulating” utility privacy practices? What are the marketing and education needs of consumers to make an informed choice on allowing the use of their personal data by utilities?

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## Installation Luncheon | Location: Fiesta Ballroom

1:00 p.m. - 2:15 p.m.

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## NARUC Board of Directors Meeting | Location: Studio

2:15 p.m. - 4:30 p.m.

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## National Regulatory Research Institute (NRRI) Colloquium | Location: Flores 5

2:30 p.m. - 4:00 p.m.

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## Opening Remarks & Introductions

2:30 p.m. - 2:35 p.m.

**Moderator:** *Rajnish Barua, Ph.D., NRRI Executive Director*

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## Broadband Access and Adoption – Where Are We?

2:35 p.m. - 3:00 p.m.

**Presenter:** *Sherry Lichtenberg, Ph.D., NRRI Principal Researcher-Telecommunications*

The FCC, providers, public interest groups, and others have encouraged broadband deployment and access through programs such as the Connect America Fund, the Broadband Lifeline Program, and carrier-sponsored programs such as Comcast’s Internet Essentials. The states have also implemented programs to encourage broadband availability and adoption. This presentation will discuss these programs and

others (including Facebook's proposed free internet program) to assess the status of broadband adoption across the country.

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## Reimagining Interconnection Rules for an Eventual Plug-and-Play DG Future

**3:00 p.m. - 3:25 p.m.**

**Presenters:** *Tom Stanton*, NRRI Principal Researcher-Energy & Environment  
*Kathryn Kline*, NRRI Research Associate

The recent rapid growth in applications for distributed energy resources is partly the result of major technological improvements and cost reductions. Some of those improvements are enabling changes in utility interconnection procedures for distributed generation and storage, especially for systems that use new smart inverters. Interconnection standards developed by the Institute of Electrical and Electronics Engineers (IEEE) and testing standards from Underwriters Laboratory (UL) are both undergoing major revisions, in keeping with the new technical capabilities for safe integration with the electric grid. Forthcoming work by NRRI Principal Researcher Tom Stanton and Research Associate Kathryn Kline will explore the kinds of technical revisions that are in the works and identify possible changes in pre-existing interconnection rules, standards, and practices that state commissions might consider, to reduce interconnection challenges for both utilities and system designers, installers, and their customers. This colloquium presentation will outline plans for that research and invite any additional questions or topics to be included in this project.

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## When Are Multiyear Rate Plans in the Public Interest?

**3:30 p.m. - 3:55 p.m.**

**Presenter:** *Ken Costello*, NRRI Principal Researcher-Energy & Environment

This presentation is based on a research report released October 2016 and lays out a general approach for regulators in evaluating Multiyear Rate Plans (MRPs) as a ratemaking mechanism with the potential to advance the public interest. It first discusses the expected benefits and outcomes of MRPs over traditional ratemaking practices. The paper then takes a more critical approach by accounting for the downsides of MRPs. The fact that relatively few utilities are currently operating under a MRP suggests that like most other mechanisms it has its costs as well as benefits. An overall evaluation therefore requires a cost-benefit review. Utility customers can potentially benefit from MRPs in four major ways: (1) lower prices, (2) more moderate price changes over time, (3) utility supply of more services, (4) higher reliability and improved customer service, and (5) more immediate price benefits from improved utility performance. For regulators, the question is: What would it take to produce these benefits? This research attempts to answer this question, although admittedly not definitely and completely.

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## Closing Remarks

**3:55 p.m. - 4:00 p.m.**

*Rajnish Barua*, Ph.D., NRRI Executive Director



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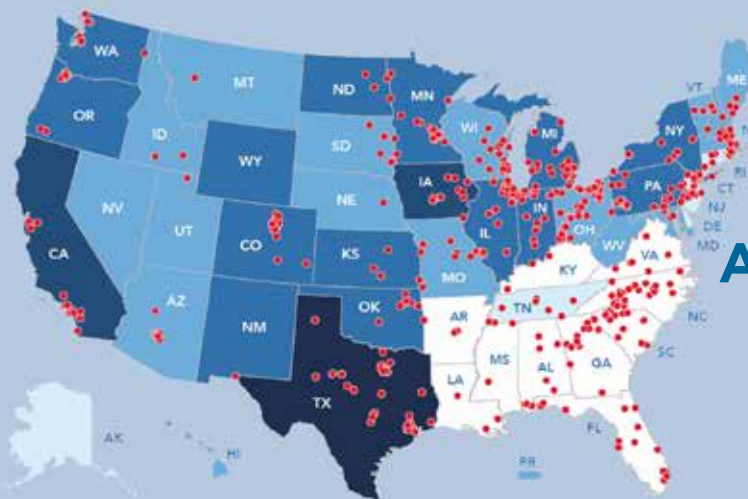
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DOE's Office of Fossil Energy consists of ~1,000 scientists, engineers, technicians and administrative staff located in many states. The Office of Fossil Energy is responsible for several high-priority research, development, and demonstration initiatives including implementation of the \$2 billion, 10-year Clean Coal Power Initiative to develop a new generation of environmentally sound clean coal technologies, and the nation's Strategic Petroleum Reserve and Northeast Home Heating Oil Reserve, both key emergency response tools available to the President to protect Americans from energy supply disruptions.

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## Section D | Concurrent Sessions *(See session for location.)*

8:30 a.m. - 9:45 a.m.

### D1—Opening the Door on Open Records Requests | Location: Flores 1-3

**Moderator:** *Hon. Lamar Davis, Arkansas*

**Participants:** *Kelly Speakes-Backman, Senior Vice President of Policy and Research, Alliance to Save Energy, Commissioner Emeritus, Maryland PSC  
State Commission Public Information Officer  
Media Representative*

With an increased trend for transparency and information sharing from State, local, and federal governments come an ever-increasing number of Freedom of Information Act requests. Although the Act itself pertains to federal government, there are related guidelines or statutes in place for each State. This session is designed to help States better understand and manage these requests and decrease the chilling effect associated with communicating internally and externally. Attendees will learn more about the rules of FOIA and open records requests; share and hear best practices for effective responses; understand the exemptions and; understand how State regulations on releasing public records differ from federal law.

### D2—A Square-Off on Nuclear Policy | Location: Flores 4

**Moderator:** *Hon. Travis Kavulla, NARUC President, Montana*

**Participants:** *Ralph Cavanagh, Co-Director Energy Policy, NRDC  
Michael Shellenberger, President, Environmental Progress, co-founder and Senior Fellow at Breakthrough Institute*

The headlines tell the story: *These Two Huge States Are Both Going Green. But Only One is Trying to Save Nuclear Energy; Nuclear's Decline Will Raise Clean Power Plan Compliance Costs; Climate Scientists Urge California to Reconsider Diablo Canyon Closure Plans; Current Plant Closures Expected to Increase U.S. Carbon Emission by 46 Million Metric Tons.*

The debate on this issue will unfold live at NARUC! New York and California have taken different policy paths—each has merit. Ralph Cavanagh, NRDC, and others will argue which State took the better alternative and why. Commissions and stakeholders will hear varying views on the most efficient way to migrate to a reduced carbon generation portfolio, including how to handle nuclear generation going forward. This problem is front and center before a large number of State Commissions and of interest to all stakeholders in the energy sector.

## Networking Break | Location: Flores Foyer

9:45 a.m. - 10:00 a.m.

# Wednesday, November 16

## General Session and NARUC Business Meeting | Location: Fiesta Ballroom

10:00 a.m. - 11:00 a.m.

### The Rate is Right? and NARUC Annual Business Meeting

**Facilitator:** Christopher Villareal, Minnesota

**Participants:** Jamie Barber, Georgia  
Ann-Marie Cuneo, Nevada  
Jeff Orcutt, Illinois

*The General Session will begin with the NARUC Annual Business Meeting. Commissioners are requested to take seats in the front of the meeting room.*

This session will review how the distributed energy resources compensation manual can be most useful to both new and seasoned commissioners and their staff. Attendees will be able to interact with the authors of the manual as they go through a guided case study showing the use and application of the Distributed Energy Resources Compensation Manual. Attendees learn the primary purposes of the manual and what implementation should look like. At the conclusion, attendees will know: how a State can identify the impacts of DER on its system, what types of questions a regulator should be asking, and what type of information a regulator should be collecting. Authors will also discuss when revisiting your DER policy is appropriate and what policy techniques are most useful.



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NARUC is working in emerging economies to advance energy regulation and improve people's lives. Regulators from the U.S. and around the world collaborate with NARUC to help solve some of the most pressing problems in energy today.

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**Contact International Programs Director Erin Hammel at [ehammel@naruc.org](mailto:ehammel@naruc.org).**



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## Certificate of Attendance

Be sure to get a certificate of attendance while at the Annual Meeting. Certificates will be available at the NARUC Registration desk beginning Tuesday, November 10, at 9:00 a.m. Please pick up a certificates by 11:00 a.m. on Wednesday, November 16. Certificates of attendance are not distributed after the meeting. It is the responsibility of the individual to collect any handouts required by their State accreditation board. For questions after the meeting, contact Lennie Noblezada at (202) 898-2202 or at [lnoblez@naruc.org](mailto:lnoblez@naruc.org).

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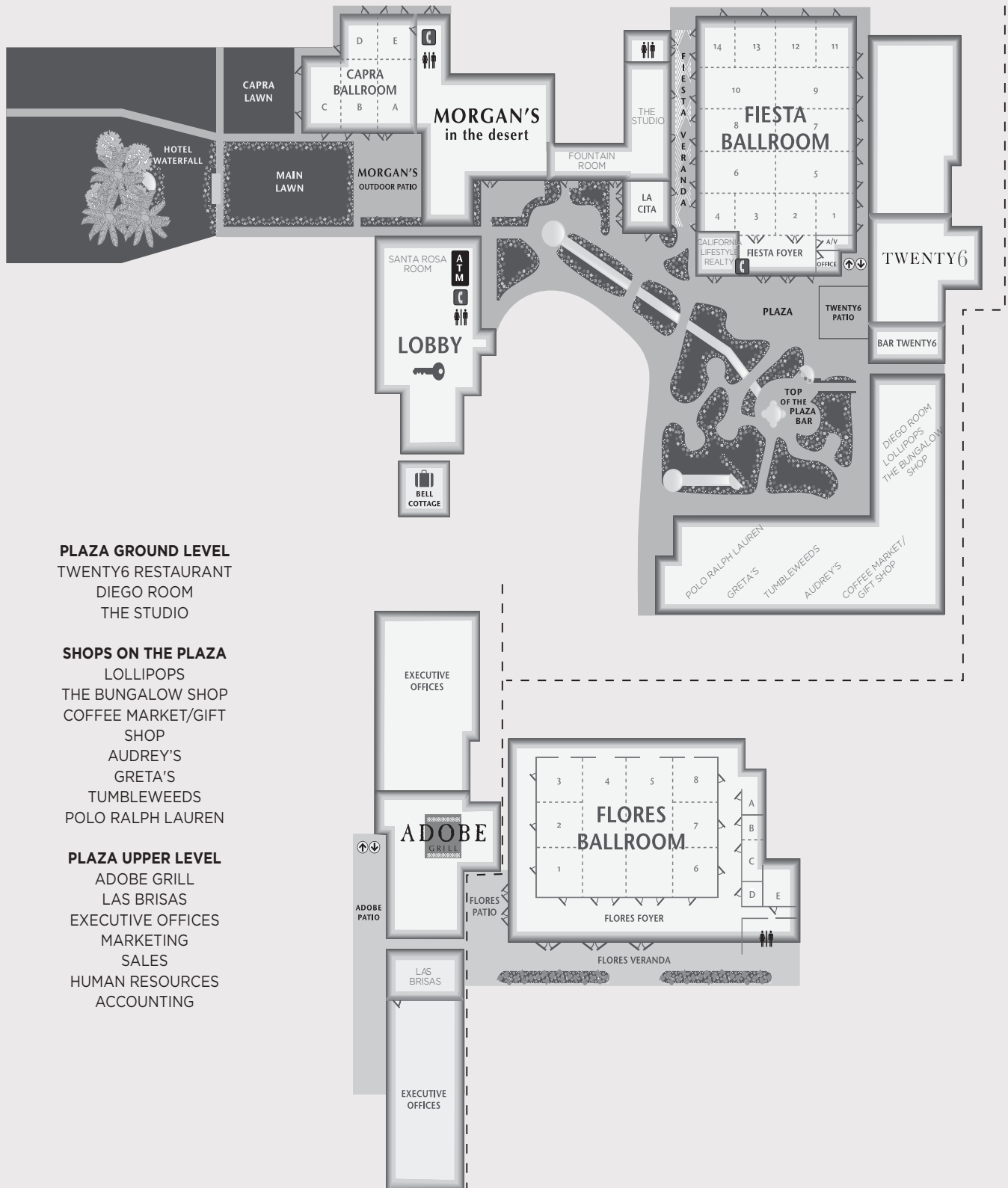
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Alabama	6.50	1.30	North Carolina	7.75	0
California	TBA	TBA	North Dakota	6.5	1.25
Colorado	7.0	0	Ohio	7.5	0
Georgia	7.5	1	Oklahoma	8.5	0
Idaho	TBA	TBA	Oregon	7.75	0
Indiana	7.80	1.30	Pennsylvania	7.50	0
Iowa	6.50	1.25	South Carolina	7.75	0
Kansas	6.50	0	Texas	5.50	0
Maine	6.50	1.25	Utah	6.5	1
Minnesota	8.0	0	Vermont	6.5	1.25
Mississippi	6.50	1.30	Washington	7.75	0
Missouri	9.30	0	West Virginia	7.80	1.50
Montana	6.50	1.25	Wisconsin	7.5	0
Nevada	6.5	1	Wyoming	6.50	1.25



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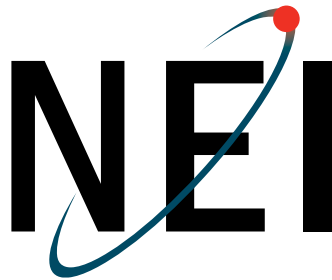
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