



NARUC

Winter Committee Meetings

February 14-17, 2016 | Renaissance Washington Hotel

Welcome to NARUC 2016 Winter Committee Meetings

Thank you for attending this year's winter meetings. NARUC is pleased to offer an exciting array of speakers and panels that will provide you and your Commissions with the information and resources to support your mission to regulate in the public interest.

Regulators continue to face challenging issues: the Clean Power Plan, pipeline safety, rate design, net metering, nuclear waste, and broadband and other telecommunications matters. The traditional gas, electricity, telecom, water and transportation issues are evolving rapidly. Our challenge is to keep pace with these changes and understand how they affect our communities while balancing the needs of all stakeholders. NARUC strives to provide meaningful discussions that will assist you in meeting these challenges.

Convening for the first time at these meetings will be the newly formed Transportation Task Force. This is a key example of NARUC's ongoing efforts to identify areas that require focused attention and analysis.

Our general sessions boast an outstanding lineup of national experts. Chairman Norman Bay from the Federal Energy Regulatory Commission, Commissioner Ajit Pai from the Federal Communications Commission, Pipeline and Hazardous Materials Safety Administration Administrator Marie Therese Dominguez, Marcus Sachs from the North American Electric Reliability Corporation, Edison Electric Institute Chair Nick Akins, General Keith Alexander (Ret.), and Power Africa Deputy Coordinator Sean Jones will address a range of growing national issues—from cybersecurity to deep de-carbonization.

We are especially pleased to offer a riveting question-and-answer session with *Lights Out* author and journalist Ted Koppel on Wednesday, which be followed by an interactive session on cyber threats.

We truly appreciate the hard work and efforts of our Committees and Subcommittees. The chairs and staff members have worked diligently to prepare thoughtful topics and speakers. The NARUC staff have worked with the committee chairs and the Executive Committee to plan and coordinate this year's meeting.

Please continue to share your thoughts with us so we may continue to best serve the interests of our members

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

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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

Renaissance Washington Hotel

999 9th Street, NW
Washington, DC 20001
tel: (202) 898-9000

The Henley Park

926 Massachusetts Avenue, NW
Washington, DC 20001
tel: (202) 414-0503

Registration and Information Desk

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

Sunday	8:00 a.m.–6:30 p.m.
Monday	8:00 a.m.–5:00 p.m.
Tuesday	8:00 a.m.–5:00 p.m.
Wednesday	8:00 a.m.–12:00 p.m.

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: Public Interest/Consumer Groups/Federal/State Agencies (non-members)

Purple: Media

Program Printing

This program was printed using information as of January 25. Some information may have changed by the time the meeting occurs.

Suggested Attire

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

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 2 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.

Electronic Devices

In consideration of the speakers and your colleagues, please turn off all cellular phones and other communication devices while in any of the sessions. Your cooperation and courtesy is appreciated.

Twitter users

Use the **#NARUCWinter16** hashtag when tweeting from our meetings. Follow us at <http://twitter.com/naruc>. Ensure that you stay connected and stop by the API booth for the Internet conference code.

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 Regina Davis at rdavis@naruc.org for permission.

Daily Schedule at a Glance

SUNDAY, FEBRUARY 14

TIME	EVENT	LOCATION
8:00 a.m.–6:30 p.m.	Registration	Ballroom Foyer
9:00 a.m.–11:45 a.m.	Staff Subcommittee on Energy Resources and the Environment	Ballroom South
9:00 a.m.–11:45 a.m.	Subcommittee on Utility Marketplace Access	Ballroom Central
9:00 a.m.–11:45 a.m.	Staff Subcommittee on Consumer Affairs	MR 4/Ballroom North
9:00 a.m.–11:45 a.m.	Washington Action (Closed)	Mount Vernon B
9:00 a.m.–5:00 p.m.	Staff Subcommittee on Pipeline Safety (Closed)	MR 15
9:00 a.m.–5:00 p.m.	Staff Subcommittee on Telecommunications	Ballroom North
10:00 a.m.–11:00 a.m.	Around the World with NARUC (Commissioners & Staff)	Congressional Ballroom
10:00 a.m.–11:45 a.m.	TeAM Task Force (Closed)	Renaissance West A
10:15 a.m.–10:30 a.m.	Networking Break	Ballroom Foyer
10:30 a.m.–12:45 p.m.	New Commissioner Forum	MR 16
1:00 p.m.–2:30 p.m.	Subcommittee on Pipeline Safety (Closed—1:00 p.m.–2:30 p.m. only)	MR 15
1:00 p.m.–3:00 p.m.	Task Force on Transportation	Renaissance West A
1:00 p.m.–4:30 p.m.	Staff Subcommittee on Gas	Renaissance West B
1:00 a.m.–5:00 p.m.	Committee on International Relations (Closed—1:00 p.m.–2:30 p.m. only)	Congressional Ballroom
1:00 p.m.–5:00 p.m.	Committee on Critical Infrastructure	Ballroom Central
1:00 p.m.–5:00 p.m.	Committee on Consumer Affairs	Mount Vernon B
1:00 p.m.–5:00 p.m.	Staff Subcommittee on Electric Reliability	Ballroom South
1:00 p.m.–5:00 p.m.	Staff Subcommittee on Electricity	Ballroom South
2:15 p.m.–2:30 p.m.	Networking Break	Ballroom Foyer
3:00 p.m.–5:00 p.m.	Task Force on Environmental Regulations & Generation (Closed)	Penn Quarter
3:45 p.m.–4:00 p.m.	Networking Break	Ballroom Foyer
5:00 p.m.–6:30 p.m.	Welcome Reception	Renaissance Ballroom

Daily Schedule at a Glance

MONDAY, FEBRUARY 15

TIME	EVENT	LOCATION
9:00 a.m.–10:30 a.m.	General Session	Ballroom South
10:30 a.m.–10:45 a.m.	Networking Break	Ballroom Foyer
10:45 a.m.–5:00 p.m.	Staff Subcommittee on Law	MR 2
10:45 a.m.–5:00 p.m.	Committee on Water	Renaissance West A
10:45 a.m.–5:00 p.m.	Committee on Telecommunications	Ballroom North
10:45 a.m.–5:00 p.m.	Committee on Electricity	Ballroom Central
10:45 a.m.–5:00 p.m.	Committee on Gas	Congressional Ballroom
10:45 a.m.–5:00 p.m.	Committee on Energy Resources and Environment	Renaissance East/ Congressional
11:45 a.m.–1:00 p.m.	Committee Chairs Meeting (Invitees only)	MR 3
11:45 a.m.–1:00 p.m.	Staff Subcommittee Chairs and NARUC Staff Meeting (Invitees only)	Renaissance West B
2:15 p.m.–2:30 p.m.	Networking Break	Ballroom Foyer
3:45 p.m.–4:00 p.m.	Networking Break	Ballroom Foyer
5:15 p.m.–6:00 p.m.	MACRUC Region Meeting (Invitees only)	MR 4
5:15 p.m.–6:00 p.m.	NECPUC Region Meeting (Invitees only)	MR 5
5:15 p.m.–6:00 p.m.	MARC Region Meeting (Invitees only)	MR 2
5:15 p.m.–6:00 p.m.	Western Region Meeting (Invitees only)	MR 3
5:15 p.m.–6:15 p.m.	SEARUC Regional Meeting (Invitees only)	MR 12 - 14

Daily Schedule at a Glance

TUESDAY, FEBRUARY 16

TIME	EVENT	LOCATION
8:00 a.m.–10:30 a.m.	General Session	Ballroom South
10:30 a.m.–10:45 a.m.	Networking Break	Ballroom Foyer
10:45 a.m.–5:00 p.m.	Committee on Water	Renaissance West A
10:45 a.m.–5:00 p.m.	Committee on Telecommunications	Ballroom North
10:45 a.m.–5:00 p.m.	Committee on Electricity	Ballroom Central
10:45 a.m.–5:00 p.m.	Committee on Gas	Congressional Ballroom/ Central
10:45 a.m.–5:00 p.m.	Committee on Energy Resources and Environment	Renaissance East/ Central
11:45 a.m.–1:15 p.m.	Commissioner Only Business Luncheon	Renaissance West B
11:45 a.m.–1:15 p.m.	Commissioner Emeritus Luncheon	MR 12-14
2:30 p.m.–2:45 p.m.	Networking Break	Ballroom Foyer
3:45 p.m.–4:00 p.m.	Networking Break	Ballroom Foyer

WEDNESDAY, FEBRUARY 17

TIME	EVENT	LOCATION
9:00 a.m.–11:45 a.m.	General Session	Ballroom South
10:30 a.m.–10:45 a.m.	Networking Break	Ballroom Foyer
11:45 a.m.–3:00 p.m.	Board of Directors Meeting	Congressional Ballroom

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See page 50 for additional sponsors

Sunday, February 14 * 2:40-3:10 pm * Congressional Ballroom



NARUC's Committee on International Relations has established an Annual Award for **Promoting International Cooperation among Utility Regulators and Development of Professional Regulation** to acknowledge important contributions made by an outstanding individual from among the NARUC membership (State commissioners and/or commission staff) who have dedicated their time, energy and expertise to furthering regulatory best practices in a global environment.

***Join us in
Honoring:
Paul J. Roberti
Commissioner
Rhode Island Public Utilities Commission***

Dedicated to the former Chairman of the Illinois Commerce Commission (1989 to 1992) **Terrence "Terry" Barnich**, who 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. He was a dedicated public servant and an active NARUC member.



General Sessions

Monday, February 15 | 9:00 a.m. - 10:30 a.m.

General Session | Ballroom South

Welcome and Introductions

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

Q&A with Norman Bay, Chairman, Federal Energy Regulatory Commission

Moderator: *Hon. Travis Kavulla, Montana*

President Kavulla will interview the FERC Chairman on the latest rulemakings as the regulator of wholesale markets, as well as survey Chairman Bay's thoughts on continuing regulatory debates on transmission planning, wholesale market design, and governance; the role of FERC vs. EPA; The Public Utility Regulatory Policies Act (PURPA), and the hazy line separating the State and federal jurisdictions.

Grid Security: Three Perspectives

Panelists: *Gen. Keith Alexander (Ret.), CEO and President, IronNet Cybersecurity*
Nick Akins, Chairman, President, CEO, American Electric Power; Chairman, Edison Electric Institute
Marcus Sachs, Senior Vice President and Chief Security Officer, North American Electric Reliability Corporation (NERC)

Panelists discuss what the security threat is, how the industry is informing itself, and what it is (and isn't) doing to counteract it.

Networking Break

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

Tuesday, February 16 | 8:00 a.m. - 10:30 a.m.

General Session | Ballroom South

Is there a Path to Deep Decarbonization?

Moderator: *Rob Barnett, Senior Analyst, Energy Policy, Bloomberg Intelligence*

Panelists: *Armond Cohen, Clean Air Task Force*
Bryce Freeman, Administrator, Office of the Consumer Advocate/NASUCA
Matthew McKinzie, National Resources Defense Council

In the wake of the Paris Agreement, the standard talking point about the energy transition was one where a dependence on fossil fuels would give way to power from renewables, primarily wind and solar. Yet, that presupposes that weather-dependent renewables are the solution to reaching a decarbonized world. Are they? Some argue renewables have already become "baseload," and that the alternatives, such as nuclear, are too costly and risky. Others say variable energy resources will result in an overbuild of back-

up resources and will lead us into to a blind alley in the path to “deep” decarbonization. Still, others claim that “deep decarbonization” is a flawed premise, because the Paris Agreement is unenforceable and the world is not likely to give up a reliance on cheap and plentiful fuel sources such as coal and natural gas. So, what would the right mix be? At what cost are we willing to decarbonize?

Three speakers will offer the following perspectives:

- Renewable resources, primarily wind and solar, are the path to deep decarbonization;
- The path to deep decarbonization requires resources like nuclear and carbon-sequestered coal, not just renewables;
- Either approach to decarbonization is so costly that it is not going to work, notwithstanding the Paris Agreement.

Connecting with the FCC: An Unscripted Dialogue

Ajit Pai, Commissioner, Federal Communications Commission

Last year, NARUC heard from FCC Chairman Tom Wheeler. Now, we’ll hear from Commissioner Pai, who will discuss his view of everything from pre-empting State laws on municipal broadband development to the net neutrality regulation to inmate calling mandates—as well as a handful of items where he thinks common ground exists.

Safety First

Panelist: *Marie Therese Dominguez*, Administrator, Pipeline and Hazardous Materials Safety Administration

The Pipeline and Hazardous Materials Safety Administration’s (PHMSA) mission is to protect people and the environment from the risks of hazardous materials transportation. Administrator Dominguez will discuss 2016 priorities to include the agency’s commitment to safety, how they establish national policy, set and enforce regulatory standards, invest in innovation and education, and partner with state commissions to advance safety.

Networking Break

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

Wednesday, February 17 | 9:00 a.m. - 11:45 a.m.

General Session | Ballroom South

Power Africa

Moderator: *Hon. Travis Kavulla*, Montana

Panelist: *Sean Jones*, Deputy Coordinator, United States Agency for International Development (USAID), Power Africa

Sean Jones serves as the Deputy Coordinator for Power Africa, a federal interagency effort working to significantly increase access to electricity in Sub-Saharan Africa. The program works with public and private entities to decrease barriers to energy resources coming online and supports necessary reforms in regulatory and political structures to ensure the long-term viability of energy sectors. With the support of the United

General Sessions

States Agency for International Development and other federal agencies, NARUC engages with partners in East Africa, Nigeria, and elsewhere to help create an enable environment for investment and growth. State commissioners and staff play an important role in NARUC's efforts, serving as expert volunteers on the ground and using their skills to help their foreign counterparts tackle regulatory issues and solve problems.

A Conversation with Ted C. Koppel, author of *Lights Out: A Cyberattack, A Nation Unprepared, Surviving the Aftermath*

Moderator: *Hon. Travis Kavulla, Montana*

When Ted Koppel published a book on cybersecurity four months ago, it catapulted the issue into the foreground of public attention. President Kavulla interviews Koppel on his book, why he became interested in the issue, and how to translate a technical issue into a matter for public consumption.

C0dEB1ack

Moderator: *Miles Keogh, Director, NARUC Research Lab*

In this interactive cyber mutual assistance exercise, we will walk through a scenario where companies across utility sectors get hacked with malware. Audience members will play a role in determining how to react, how to communicate threat information, and how to recover from the event.

This workshop will take place in two parts. In the morning, you will experience the events as they unfold. You will be faced with decisions for how to address a time-sensitive cyber threat, how to figure out if you have the right resources to address the problem, and whether or not cybersecurity mutual assistance could help. During the afternoon session, participants will provide input and learn from one another about what can be done to mitigate the effects of a cyber attack, how to communicate across utility sectors, and what issues related to cybersecurity cost recovery exist.



The poster features a photograph of the North Dakota State Capitol building in Bismarck, ND, with a path leading towards it. The text "SAVE THE DATE" is prominently displayed in large white letters, followed by "MARCK 2016" in a red box. Below this, it says "JUNE 12-15 in BISMARCK, ND". To the right, a list of activities is provided, including learning about North Dakota's history, a President's Reception, and energy generation tours. Social media links for Facebook and Twitter are at the bottom, along with the event's name "bisMARCK 2016" and the dates "JUNE 12-15, 2016" at the "RADISSON HOTEL".

bisMARCK 2016

Join us in 2016 in the beautiful North Dakota Capitol city of Bismarck!

- Learn about North Dakota's history while exploring the newly expanded State Museum at the ND Heritage Center during the Opening Reception.
- President's Reception hosted at the historic Fort Abraham Lincoln State Park.
- Tour a variety of energy generation sites during the Tuesday energy tours.

More information to be released soon!

JUNE 12-15, 2016
RADISSON HOTEL

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America’s innovators are discovering advanced nuclear energy technologies to smartly and safely meet our growing electricity needs while preventing greenhouse gases.

Other innovators, such as Bill Gates and Jose Reyes, are also advancing nuclear energy options that are scalable and incorporate new safety approaches. These designs will power future generations and solve global challenges, such as water desalination.

Nuclear energy supplies nearly one-fifth of our electricity. In a recent poll, 72% of Americans said we should prepare now so new nuclear plants could be built in the next decade.



NUCLEAR ENERGY INSTITUTE

Get the facts at nei.org/future
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nuclear. clean air energy

Sunday, February 14 | 9:00 a.m. - 11:45 a.m.

Subcommittee on Utility Marketplace Access | Ballroom Central

Welcome and Opening Comments

9:00 a.m.

Moderator: *Hon. Nikki Hall, South Carolina*

Consideration of Resolution for Commissioner Emeritus Linda C. Taliaferro

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

The UMA Commissioners are honored to consider a Resolution honoring the life and work of Commissioner Emeritus Linda C. Taliaferro.

Update on UMA Toolkit Project

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

Moderator: *Hon. Nikki Hall, South Carolina PSC*

Panelist: *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 receive a briefing from NUDC on the status of the Toolkit.

Emerging Energy Technologies and Minority Communities; Where Do We Stand?

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

Moderator: *Hon. Ronald Brisé, Florida*

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

Russell Frisby, Jr., Com. Emeritus, Maryland, Partner, Stinson Leonard Street

Sam Jammal, Deputy Director, Policy & Electricity Markets and Regulatory Counsel, SolarCity

Mark Magaña, President, Green Latinos

The controversy surrounding net energy metering, rooftop solar, smart thermostats like Nest, battery storage and other emerging distributed clean technologies has raised the question of their impact on minority and underserved communities? How do they compare today in social responsibility to utilities as they compete for customers and subsidies? This panel will be a robust discussion on the issues and where minority and underserved communities stand with this evolving market.

Community and Industry Engagement

10:00 a.m. - 10:35 a.m.

Panelists: *Hon. LaDoris "Dot" Harris, Director, Office of Economic Impact and Diversity, U.S. Department of Energy*
Karen Atkinson, Deputy Director, Office of Economic Impact and Diversity, U.S. Department of Energy

Director Harris will discuss the tools and educational materials her office is developing on how communities and policymakers can use large-scale energy development to drive local community development.

Board of Directors

Quantifying the Value of Supplier Diversity: A Case Study from California General Order 156

10:35 a.m. - 10:55 a.m.

Panelists: *Dr. Jake Beniflah*, Co-Founder and Editor, Journal of Cultural Marketing Strategy - Henry Stewart Publications
Doug Phason, President, Phason's Consulting Services

In its first-ever study to quantify the value of diverse suppliers to the California Public Utilities Commission to General Order (GO) 156, specifically in the utility sector, the CPUC staff worked with Dr. Jake Beniflah, Executive Director, the Center of Multicultural Science, to seek his expertise. In the quant study, Dr. Jake Beniflah found that diverse suppliers add value to a slow economy, the community, and the supply chain within those communities. More importantly, in a strong economy, nearly all businesses enjoy greater prosperity. Disposable income is high, unemployment is low, and consumer confidence prompts people to pump their money back into the economy through the purchase of essential and nonessential goods and services. However, during a slow economy one would expect to see the opposite. Surprisingly, the study tells a different story about diverse suppliers' value to the economic benefits of the community and the State's economy. The study reinforces why the investor-owned utilities' adaption of GO 156 is so critical.

Service Disabled Veteran Success Story

10:55 a.m. - 11:05 a.m.

Moderator: *Hon. Nikki Hall*, South Carolina
Panelist: *Joseph Bessler*, President/CEO ATO Power, Inc.

Organization Updates

11:05 a.m. - 11:35 a.m.

Moderator: *Hon. Nikki Hall*, South Carolina
Invited Guests: *Monica Martinez*, President, Hispanics in Energy
Bob Mulz, COB, Elite Service Disabled Veteran-Owned Business Network
Laurie Dowling, Executive Director, National Utilities Diversity Council
Kim Keenan, President and CEO, Minority Media Telecom Council
Jimmy Rhee, Special Secretary, Maryland Governor's Office of Minority Affairs
Paula R. Glover, President & CEO, American Association of Blacks in Energy

Minority Investment Bank Report

11:35 a.m. - 11:45 a.m.

Panelists: *Timothy Alan Simon*, Com. Emeritus, California Founder TAS STRATEGIES
David Finkelstein, Principal, Williams Capital Group, L.P.

A series of Roundtables with UMA Member Commissioners and utilities have been held around the country to support an increase in the utilization of minority, women and service disabled veteran banks in utility financial transactions. A national statistical report has been prepared by Loop Capital Markets and will be presented by the panel. Discussion will include the frequency and level of participation by diverse firm in recent transactions.

Closing Remarks

Sunday, February 14 | 9:00 a.m. - 11:45 a.m.

Washington Action | Mount Vernon B (Closed)

Sunday, February 14 | 10:00 a.m. - 11:45 a.m.

TeAM Task Force | Renaissance West A (Closed)

Sunday, February 14 | 1:00 p.m. - 3:00 p.m.

Task Force on Transportation | Renaissance West A

Business Meeting

1:00 p.m.

Welcome: *Hon. Gladys Brown, Pennsylvania and Hon. Ann Rendahl, Washington*

Working Group on Motor Carriers

1:10 p.m.

Working Group on Rail Safety

1:30 p.m.

Break

1:50 p.m. - 2:00 pm

Moving into the Future: Updating Existing Regulations to Make Way for Innovation in the Transportation Sector

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

Moderator: *Hon. Gladys Brown, Pennsylvania*

Panelists: *Hon. Brad Johnson, Montana
Hon. Catherine Sandoval, California
Hon. Glenn Vaad, Colorado
Hon. Lamar Davis, Arkansas
Hon. Lynn Slaby, Ohio*

With the overnight explosion of Transportation Network Companies, such as Uber and Lyft, States have been left to quickly determine how to adequately regulate these new and innovative services. Many States have existing transportation regulations on the books that do not directly account for this new technology platform. The panel will discuss how States can update their existing regulations to address this new technology and protect the traveling public by ensuring that Transportation Network Companies operate safely, maintain adequate insurance, and comply with State regulations.

Board of Directors

Sunday, February 14 | 3:00 p.m. - 5:00 p.m.

Task Force on Environmental Regulation & Generation | Penn Quarter (Closed)

Monday, February 15 | 10:45 a.m. - 5:00 p.m.

Staff Subcommittee on Law | MR2

Meeting

Agenda to be distributed at meeting.



SEIA Solar Energy Industries Association®

For more than 40 years, SEIA has been the voice of the solar industry.
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- Consumer Protection
- Clean Power Plan Implementation
- Fair Net Metering Policies
- Workforce Diversity
- Broadening Access to Solar
- And many more...

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Sunday, February 14 | 9:00 a.m. - 11:45 a.m.

Staff Subcommittee on Consumer Affairs | MR 4/Ballroom North

Welcome

9:00 a.m. - 9:05 a.m.

Panelist: *Cynthia Muir*, Chair, Subcommittee on Consumer Affairs

New Protection Tools for Solar Customers

9:05 a.m. - 9:40 a.m.

Panelists: *Tom Kimbis*, Vice President & General Counsel, Solar Energy Industries Association
Chet McGensy, Director, Policy & Electricity Markets and Regulatory Counsel, SolarCity

As solar energy use increases across residential and small commercial markets, so does the need for increased consumer protection. While solar is a promising option, misunderstandings occur without a full understanding of solar characteristics and the choices in ownership and finance models. The Solar Energy Industries Association (SEIA) launched a consumer protection committee to identify and prioritize consumer protection issues, develop new tools and solution sets, educate the public and industry, and engage with federal, State, and local policymakers and regulatory officials. Developments include:

- SEIA Solar Business Code (code of conduct) and procedures for bringing a claim under the Code
- SEIA Residential Consumer Guide to Solar Power
- Templates for model leases and power purchase agreements with the U.S. Department of Energy/ National Renewable Energy Laboratory
- Alerts on critical issues, such as advertising regulations
- Educational webinars on consumer law, advertising laws, and the SEIA Solar Business Code.

Learn more about the solar industry, its top consumer protection issues, what SEIA and industry members are doing to increase consumer understanding, and how SEIA and States can work alongside one another to protect consumers.

Review of Utility Billing and Customer Care: Current Issues, and Future Directions

9:40 a.m. - 10:15 a.m.

Panelists: *Tom Stanton*, Principal Researcher for Energy and Environment, National Regulatory Research Institute
Chetrice Mosley, Executive Director of External Affairs, IURC

An Indiana Utility Regulatory Commission (IURC) Billing Symposium held in November 2015 was the catalyst for the NRRI Research Paper being introduced today. The IURC Symposium provided an opportunity for open dialogue among about 75 invited participants representing Indiana electric, natural gas, and water utilities, IURC, and consumer interests. NRRI researchers surveyed all 50 states and the District of Columbia for information on billing rules and related communications, and consumer complaints data. Other information sources for the Paper include a literature review, sample utility bills, and utility and commission publications. Learn the NRRI Research Paper findings as the presentation reviews: (1) the different goals and objectives for utility billing and customer care systems, held by utilities, Commissioners, consumer interests, and society at large; (2) state billing rules, noting similarities and differences and identifying 16 important topics included in many state rules; (3) complaints data by industry type and topic.

Consumer Affairs

Networking Break

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

Panel III: Carrier of Last Resort (COLR) in Transition

(JOINT SESSION with the Subcommittee on Telecommunications)

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

Moderator: *Kerri DeYoung Phillips*, Counsel Competition Division, Massachusetts Department of Telecommunications and Cable

Panelists: *Barbara Cherry*, The Media School, Indiana University
Lynn Follansbee, Vice President, Law & Policy, USTelecom
Brian Ford, Regulatory Counsel, NTCA-The Rural Broadband Association
Art Martinez, Vice President State Government Relations, CenturyLink
Barrett Sheridan, Assistant Consumer Advocate, Pennsylvania Office of Consumer Advocate
Joe Witmer, Commissioner Counsel, Pennsylvania

COLR represents a longstanding universal service policy throughout the country—that every American household have access to reliable and affordable phone service. At its most basic, the COLR obligation involves the requirement that a carrier offer service throughout its territory. In the midst of the current technology transition and the advent of alternate voice technologies and providers, recent FCC activity, and State regulatory changes, what is the status of COLR nationwide? Where does this leave the American consumer and what actions should State regulators take?

Sunday, February 14 | 1:00 p.m. - 5:00 p.m.

Committee on Consumer Affairs | Mount Vernon B

Robo Calls

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

Moderator: *Hon. Brandon Presley*, Mississippi

Panelists: *Kevin G. Rupy*, Vice President, Law & Policy, USTelecom
Bikram Bandy, Do Not Call Program Coordinator, Federal Trade Commission

With the FCC's recent actions to eliminate unwanted robo calls received on landline and now wireless phones, the panel will explore the spread of unsolicited sales calls and what consumers can do to help curb the problem.

Networking Break

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

Review of Utility Billing and Customer Care: Current Issues and Future Directions

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

Moderator: *Tom Stanton*, Principal Researcher for Energy and the Environment, National Regulatory Research Institute

Panelists: *Hon. Jim Huston*, Indiana
Chetrice Mosley, Executive Director of External Affairs, IURC

An Indiana Utility Regulatory Commission (IURC) Billing Symposium held in November 2015 was the catalyst for the NRRI Research Paper being introduced today. The IURC Symposium provided an opportunity for open dialogue among participants representing Indiana electric, natural gas, and water utilities, IURC, and consumer interests. NRRI researchers surveyed all 50 states and the District of Columbia for information on billing rules and related communications, and consumer complaints data. Other information sources for the Paper included a literature review, sample utility bills, and utility and commission publications. Learn the NRRI Research Paper findings as the presentation reviews: (1) the different goals and objectives for utility billing and customer care systems, held by utilities, Commissioners, consumer interests, and society at large; (2) state billing rules, noting similarities and differences and identifying 16 important topics included in many state rules; (3) complaints data by industry type and topic.

Update from NASUCA

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

Moderators: *Bob Nelson*, President, National Association of Utility Consumer Advocates
David Springe, Executive Director, National Association of Utility Consumer Advocates

Recently taking the lead of NASUCA, new Executive Director David Springe and President Bob Nelson will provide an update on the Association and ways that NARUC and NASUCA can work together to benefit consumers.

Keeping Michigan Warm Coalition

3:00 p.m. - 4:15 p.m.

Moderator: *Hon. John Quakenbush*, Michigan

Panelists: *Monica Martinez*, Coalition to Keep Michigan Warm and Ruben Strategy Group
Melissa Seifert, Government Affairs, AARP
Jamie Curtis, Director of Energy Assistance Services, The Salvation Army
Winston Feeheley, Manager of Corporate and Government Affairs, DTE Energy

The Michigan PSC has adopted a successful collaborative approach for reaching vulnerable populations with needed assistance that is now being expanded to handle broader consumer issues. The panel will explore what works, what doesn't, and what new ideas may be useful in reaching customers facing a myriad of issues who need assistance.

Consumer Attitudes Regarding Utilities and Utility Commissions

4:15 p.m. - 5:00 p.m.

Moderator: *John Ashford*, Chairman, The Hawthorn Group, L.C.

An expert at polling utility customers, John Ashford will present updated information that can help Commissions and utility companies better reach customers with information that is meaningful and helpful to them.



**THE FUTURE DEMANDS
COLLABORATION.**

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Together, we'll create a more **resourceful world.**

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Sunday, February 14 | 9:30 a.m. - 11:30 a.m.

Staff Subcommittee on Critical Infrastructure | MR 2

CLOSED SESSION: Staff/Commissioner Roundtable

9:30 a.m. - 11:30 a.m.

Moderator: *Thomas Pearce*, Public Utilities Commission of Ohio Members

Closed Session. NARUC Members Only (Staff, Commissioners, NARUC Staff, and Federal Agency Partners).

Sunday, February 14 | 1:00 p.m. - 5:00 p.m.

Committee on Critical Infrastructure | Ballroom Central

(JOINT MEETING with Staff Subcommittee on Critical Infrastructure)

Welcome and Introductions

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

Moderator: *Hon. Carolene Mays-Medley*, Indiana and *Thomas Pearce*, Ohio

Updates

1:15 p.m. - 1:30 p.m.

Panelists: *U.S. Dept. of Energy (invited)*

DOE update

Updates

1:30 p.m. - 1:35 p.m.

Panelist: *John McClain*, Office of Emergency Communications, Department of Homeland Security

Update from DHS Office of Emergency Communications

Updates

1:35 p.m. - 2:00 p.m.

Panelists: *Kelvin Coleman*, Acting Deputy Director, Stakeholder Engagement and Cyber Infrastructure, Department of Homeland Security

Discussion regarding the importance and relevance of cybersecurity, the role of the DHS, resources available from DHS to help Commissions and utilities, and the C3VP program.

Critical Infrastructure

NERC GridEx III

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

Panelists: *Hon. Philip Jones*, Washington
Marcus Sachs, North American Electric Reliability Corporation

Update on the GridEx III Tabletop exercise hosted by the North American Electric Reliability Corporation in November 2015. The biennial simulation helps the electric industry prepare for events that could compromise the Bulk Power System.

Supply Chain Management

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

Panelists: *Hon. Philip Jones*, Washington
Samara Moore, Senior Manager for CIP Security and Compliance, Exelon Corporate and Information Security Services

Examining supply chain vulnerabilities. What is the impact of vendor (non)security? How do utilities protect their data and operating systems? Should there be standards and/or regulations regarding suppliers?

National Institute of Standards and Technology RFI

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

Panelists: *Hon. Pamela Witmer*, Pennsylvania
Adam Sedgewick, Senior Information Technology Advisor, National Institute of Standards and Technology

Update on the National Institute of Standards and Technology cybersecurity framework RFI.

Break

3:00 p.m. - 3:15 p.m.

What Role Do We Play in Cybersecurity?

3:15 p.m. - 4:45 p.m.

Commissions are struggling with the role regulators play in cybersecurity and what is allowable for cost recovery on these fronts by utilities. Is the private sector acting quickly enough in light of these threats; and how much should State Commissions be doing? Where does cybersecurity responsibility lie? What should we be doing as State Commissioners? What is being done at the federal level and how do/should our roles overlap, bind/work together? Is it a federal problem? A State problem? Is it a utility problem? How much and how should information be shared?

Panel 1

3:15 p.m. - 4:00 p.m.

Moderators: *Hon. Nick Wagner*, Iowa
Hon. Carolene Mays-Medley, Indiana

Panelists: *Hon. Cheryl LeFleur*, Commissioner, Federal Energy Regulatory Commission
Jim Fama, Vice President, Energy Delivery Group, Edison Electric Institute
Pat Hoffman, Assistant Secretary, U.S. Department of Energy

Panel 2: Commissioners

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

Moderator: *Hon. Carolene Mays-Medley, Indiana*

Panelists: *Hon. TaNola Brown-Bland, North Carolina*
Hon. Art House, Connecticut
Hon. Ann McCabe, Illinois
Hon. Bob Scott, New Hampshire

Business Meeting

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

NARUC updates.
Resolutions

Tuesday, February 16

Safe and Secure: Maintaining the Security of our Water Utilities

(JOINT MEETING with Committee on Water)

1:15 p.m. - 2:30 p.m. | Renaissance West A

Moderator: *Hon. Carolene Mays-Medley, Indiana*

Panelists: *Michael Arceneaux, Managing Director, Water Information and Sharing Analysis Center*
Nick Santillo, Director of Physical and Cyber Security, American Water
Kevin Tingley, P.E., U.S. Environmental Protection Agency, Water Security Division

Recent events have highlighted the importance of maintaining the security of utility services. Access to safe sources of water is critical for maintaining health and safety. Water utilities face both physical and technological threats. What are water utilities doing to address those threats? The panelists will give their perspectives on the security threats faced by water utilities, how those threats are being and will be addressed, and the role of utility commissions.

“In God We Trust, All Others Must Bring Data.” William Deming

4:00 p.m. - 5:15 p.m. | Congressional Ballroom

(JOINT MEETING with the Committee on Gas)

Moderators: *Hon. Dianne Solomon, New Jersey*
Hon. Nick Wagner, Iowa

Panelists: *John Bryk, DNG-ISAC*
John Cullinane, Washington Gas Light
Mark Dowd, InfoGPS Networks
Mark Kempic, NiSource
Adam Sedgewick, NIST

We need data for almost everything we do as regulators. But how do we protect and take control of our data? It is not just retailers and banks who are at risk. How can gas utilities and operators maintain proper safeguards of customer data, SCADA access, and operational control?

Sunday, February 14 | 1:00 p.m. - 5:00 p.m.

Staff Subcommittee on Electricity and Staff Subcommittee on Electric Reliability | Ballroom South

Who Has Jurisdiction? Legal Roundtable

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

Moderator: *Kim Duffley*, North Carolina

Panelists: *Larry Eisenstat*, Partner, Crowell & Moring, LLP
Roger Martella, Partner, Sidley Austin, LLP
Erin Murphy, Partner, Bancroft PLLC
Jennifer Murphy, NARUC Assistant General Counsel
Ari Peskoe, Harvard Law School, Environmental Policy Initiative

The evolution of the electricity market, including the growth of RTOs/ISOs, environmental policies, and technological changes, has caused some to question the boundary between federal jurisdiction and State jurisdiction. The panelists will discuss the limits of State action, as well as federal action, through the discussion of pending cases in the United States Supreme Court and the Eighth Circuit Court of Appeals.

How Reliable is Transmission Compared to Distribution and What do Power Interruptions Really Cost Customers?

2:15 p.m. - 3:00 p.m.

Moderator: *Patricia Poli*, Michigan

Panelist: *Joe Eto*, Staff Scientist, Lawrence Berkeley National Laboratory

Drawing on information collected by the IEEE Distribution Reliability Working Group and the US Energy Information Administration, Joe Eto will shed light on the oft-repeated adage that 90 percent of all interruptions originate from within distribution (in fact, it's much higher). He will also introduce an updated, web-based tool that estimates the economic costs of power interruptions borne by customers and then show how these estimates may be used to support reliability value-based planning.

Final NERC Report on Essential Reliability Services

3:15 p.m. - 3:45 p.m.

Moderator: *Patricia Poli*, Michigan

Panelist: *John Moura*, Director, Reliability Assessment and System Analysis

In December 2015, the North American Electric Reliability Corporation (NERC) released the final report of the Essential Reliability Services Task Force (ERSTF). The task force had ambitious goals: one was to develop new metrics to guide system operators in gauging the health of the bulk electric system (BES) as it responds to a rapidly evolving resource mix; and another equally important goal was to convey the highly technical findings of the ERSTF in a variety of formats, so that regardless of technical background, the reader can understand the underlying conclusion, that the BES needs time to adjust.

The metrics defined by the ERSTF provide granularity in assessing the ongoing function of the three main indicators (i.e., the three essential reliability services) of a healthy grid: providing frequency support,

ramping capability, and voltage control. For those who need help in conceptualizing essential reliability services, NERC created 3 short videos that do an excellent job describing these concepts with relatable analogies. In this update, NERC will describe the current and future efforts of the ERSTF and will demonstrate one of the educational videos.

Update on the National Electrical Safety Code

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

Moderator: *Patricia Poli*, Michigan

Panelists: *Sue Vogel*, Senior Manager, NESC IEEE Standards Association
Michael J. Hyland, Chair, NESC Committee, Sr. Vice President, Engineering Services, American Public Power Association
Jorge Camacho, Chief Infrastructure and System Planning, D.C. Public Service Commission

The 2012 edition of National Electric Safety Code (NESC) was updated recently and the 2017 edition will be released in late 2016. In this session, find out about the State of the NESC Code and discover why State Commission involvement is important in the NESC code revision process. A couple of examples showcasing State partnerships will be highlighted. First, Jorge Camacho, a D.C. Public Utility Commission staffer, will describe his experience representing State government on NESC code revision committees. Sue Vogel will give an overview of the programs the Oregon Public Utility Commission (OPUC) staff implements around NESC (inspections, audits, joint pole use). The OPUC partnered with the Oregon Joint Use Association (www.ojua.org) to address joint use pole issues to coordinate conflict resolution, inspections, and corrections. This mutually beneficial relationship may provide a model for other States.

Update from FERC

4:30 p.m. - 5:00 p.m.

Moderator: *Kim Jones*, North Carolina

Panelist: *Cameron Schilling*, Division of State, International & Public Affairs, Federal Energy Regulatory Commission

Federal Energy Regulatory Commission staff will explain some pending rulemakings.

Monday, February 15 | 10:45 a.m. - 5:00 p.m.

Committee on Electricity | Ballroom Central

Realizing the Value of Solar

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

Moderator: *Hon. Libby Jacobs*, Iowa

Panelists: *Dr. Deepak Divan*, Varentec, Chief Scientist & Founder
Kevin Kushman, COO of Integral Analytics
Jeff Smith, Electric Power Research Institute

What strategies and technologies can we employ to wring the most value out of solar electric generating facilities?

Subcommittee on Clean Coal and Carbon Management

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

Opening Remarks

1:00 p.m. - 1:05 p.m.

Panelists: *Hon. Brian Kalk*, Subcommittee Chair, North Dakota
Hon. Asim Haque, Vice Chair, Ohio

Kemper County Reflections

1:05 p.m. - 1:20 p.m.

Panelists *Hon. John Quackenbush*, Michigan
Ivy Wheeler, NARUC

An overview of the subcommittee's recent trip.

The Allam Cycle

1:20 p.m. - 1:40 p.m.

Panelist: *Wade Boeshans*, President & General Manager, BNI Coal, Ltd.

A near-zero emissions technology that converts lignite to synthetic gas that combusts in a stream of oxygen. This technology is highly efficient because it replaces steam with high-pressure carbon dioxide as the working fluid that drives the generator.

Chemical Looping Process for Electricity

1:40 p.m. - 2:00 p.m.

Panelist: *Dr. Andrew Tong*, Ohio State University

Impacts of the Clean Power Plan

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

Panelist: *Paul Bailey*, American Coalition for Clean Coal Electricity

Technology Innovations in the Transforming Power System

2:30 p.m. - 3:45 p.m.

Moderator: *Hon. Edward Finley*, North Carolina

Panelists: *Michael Howard*, President & CEO, Electric Power Research Institute

EPRI will provide an overview of the technology innovations anticipated over the next decade, including the changing role of customers and an update on EPRI's Integrated Grid analysis.

How and when will NERC and its regional entities assist States in developing Clean Power Plan compliance plans?

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

Moderator: *Hon. Asim Haque, Ohio*

Panelists: *Gerry Cauley, President and CEO, North American Electric Reliability Corporation*

Mike Kormos, Ex. VP and COO, PJM

Tim Gallagher, President and CEO, RF

Scott Henry, President and CEO, SERC

Clair Moeller, Ex. VP of Transmission and Technology, Midcontinent Independent System Operator

Jim Robb, CEO, Western Electricity Coordinating Council

In developing the final rule of the Clean Power Plan (CPP), the US Environmental Protection Agency incorporated additional measures that purportedly serve to ensure that reliability of the bulk power system is not compromised through CPP compliance. These additional measures were meant to allow for planning, implementation, and the integration of actions needed to address reliability while reducing emissions. Of particular interest to States is the new requirement that States demonstrate a consideration of reliability in plan construction through consultation with State reliability or planning agencies. The final rule also provides for a reliability safety valve, which is more to address unforeseen emergencies rather than the cumulative reliability impacts from State compliance plans.

Will these measures preserve reliability of the bulk power system through the CPP compliance period? What else could the US EPA have done to ensure that reliability is protected? How do States demonstrate that they have considered reliability when crafting a State plan? What guidance will planning authorities provide? Will the reliability safety valve work? What reliability analyses will/can be conducted to assist States going forward?

We've collected a panel of experts to answer these questions and provide guidance. NERC will provide an update on a soon-to-be published guidance document for States titled "Reliability Considerations for Clean Power Plan Development"; NERC regional entities representing SERC, WECC, and RF will provide regional perspectives on assistance to States in developing a reliability assessment; and two RTO's - representing a region of predominantly traditionally regulated states (MISO) and deregulated States (PJM), will share their modeling efforts and how States can use this information.



AMERICAN PETROLEUM INSTITUTE

Tuesday, February 16 | 10:45 a.m. - 5:00 p.m.

Committee on Electricity | Ballroom Central

Nuclear Issues

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

Moderators: *Hon. Ann McCabe*, Illinois
James Sperman, Staff Subcommittee Chair, South Carolina

Panelists: *John Kotek*, Assistant Department of Energy Secretary
TBD, Nuclear Regulatory Commission

Movement + Modernization = Momentum on Storage for Nuclear Waste: Acting Assistant Secretary Kotek will discuss developments, including the new consent-based siting initiative (kick-off meeting January 20, 2016), the White House Nuclear Summit, and the launch of Gateway for Accelerated Innovation in Nuclear (GAIN).

A representative from the Nuclear Regulatory Commission will discuss advanced nuclear technologies, including small modular reactors.

Wholesale Electric Markets: A Hard Look

1:15 p.m. - 2:30 p.m.

Moderator: *Lawrence Brenner*, Commissioner Emeritus

Panelists: *William Berg*, Vice President, Wholesale Market Development, Exelon
Sue Kelly, CEO, American Public Power Association
John Moore, Senior Attorney, Sustainable FERC Project, NRDC
David Patton, President, Potomac Economics Ltd.
Gordon van Welie, President and CEO, ISO-New England

Congressional leaders and State regulators are raising fundamental issues about the organized wholesale electricity markets. Are these markets effective at providing economic and reliable electricity capacity? Are the markets hastening baseload plant retirements? Have States lost control over generation decisions? The U.S. Supreme Court will decide whether Maryland's proposal to encourage generation in its State via a contract for differences approach is preempted by the Federal Power Act. The panelists will discuss the strengths and weaknesses of the current markets.

Business Meeting

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

Moderator: *Hon. Edward Finley*, North Carolina

Resolutions

Business Meeting

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

Moderator: *Hon. Edward Finley*, North Carolina

Panelist: *Hon. Audrey Zibelman*, New York

On December 2, 2015, New York Gov. Cuomo directed the NY Dept. of State to establish a Clean Energy Standard to support that State's environmental goals. Gov. Cuomo directed that the Standard should maintain the State's existing zero-carbon electricity sources. In particular, he stated that "elimination of upstate nuclear facilities, operating under valid federal licenses, would eviscerate the emission reductions achieved..." A report recently confirmed that upstate nuclear plants avoided more than 15 million tons of carbon emissions and contributed more than \$3 billion to the State gross domestic product. New York Chairperson Zibelman will discuss the NY Clean Energy Standard, the lessons that could benefit other States, the importance of building a bridge to achieve the climate objectives of the Clean Power Plan, and stakeholder support for implementing the plan.

Business Meeting

3:20 p.m. - 3:30 p.m.

Panelist: *Hon. Asim Haque*, Ohio

How State Commissions can influence NERC's reliability standards.

Business Meeting

3:30 p.m. - 3:40 p.m.

Panelists: *Hon. Elizabeth Fleming*, South Carolina

Kerry Worthington, NARUC

Update on EISPC activities.

Business Meeting

3:40 p.m. - 3:45 p.m.

Panelist: *Jennifer Murphy*, Assistant General Counsel, NARUC

Update on recent litigation.

The Paris Climate Talks

(Joint with ERE and IRC)

4:00 p.m. - 5:15 p.m.

Energy Resources and the Environment

Sunday, February 14 | 9:00 a.m. - 11:45 a.m.

Staff Subcommittee on Energy Resources and the Environment | Ballroom South

Who's Demanding Demand Charges

(Joint Meeting with the Staff Subcommittee on Rate Design)

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

Moderator: *Chris Villarreal*, Director of Policy, Minnesota PUC

Panelists: *William Malcolm*, AARP

Danny Waggoner, Senior Associate, Advanced Energy Economy
RMI (invited)

Come start your Sunday morning with a rollicking conversation on residential demand charges! This session explores the growing interest in (and seemingly staunch opposition to) demand charges for residential and small commercial customers. Presenters will offer multiple perspectives that will prime our open conversation about: What's going on with demand charges? Why do demand charges (or not)? Who benefits from demand charges (or not)? Bring your own coffee (or not).

What's Headed Home and Who's on First? – Customer-side Capabilities Coming to the Modern Grid

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

Moderator: *Wally Nixon*, Commissioner's Legal Advisor, Arkansas PSC

Panelists: *Rick Counihan*, Head, Energy Regulatory and Governmental Affairs, NEST
Ben Freas, Senior Research Analyst, NAVIGANT

Grid modernization is bringing all kinds of new capabilities to the customer, but many questions remain. Who will choose the capabilities that get offered? Who will do the offering? Who will be in control? What will be the desired, appropriate, and just and reasonable roles for customers, for appliance and energy management system manufacturers, for third parties including aggregators, and for regulated utilities or their contractors? This panel offers an early look at these issues, through the lens of smart thermostat devices, and the opportunities they are already starting to deliver.

Energy Resources and the Environment

Monday, February 15 | 10:45 a.m. - 5:00 p.m.

Committee on Energy Resources and Environment | Renaissance East/Congressional

Driving Decisions via Deep Data-Diving & Dashboards: How big data can lead to better decisions for utilities, customers, and regulators.

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

Moderator: *Hon. Beth Trombold, Ohio*

Panelists: *Paul Alvarez, President, the Wired Group*
Cameron Brooks, President, Tolerable Planet Enterprises
Jeff Steffes, EVP External Affairs, Direct Energy

Rapid advances in grid modernization, advanced metering infrastructure (AMI), computer automation, and large-scale data analytics—so-called “big data”—are converging to change what is possible for achieving least cost utility planning and operations, blending increasing amounts of variable renewable resources and storage technologies, and achieving greater efficiency in both utility operations and consumer usage. For the utility, AMI, distribution automation, and large-scale data analytics are converging to offer new possibilities for optimizing grid operations. On the customer side of the meter, many thousands of customers are already benefiting from products like intelligent thermostats and services available from control software and analytic tools, and new opportunities are emerging all the time. There are potential roles for all kinds of communications and controls, business to business, business to consumer, and even machine to machine. At the same time, there could be lost opportunity costs if such innovations face too many hurdles in reaching their market potential. This panel reviews some of the most important early applications, providing current information to help commissioners think about emerging standards utilities might be directed to achieve.

Energy Storage: Coming Soon to Theaters Near You

1:00 p.m. - 2:30 p.m.

Moderator: *Hon. Jeannette Mills, Maryland*

Panelists: *Hon. Lorraine Akiba, Hawaii*
Hon. Dave Danner, Washington
Hon. Carla Peterman, California

Already, a baker's dozen States have ongoing dockets, working groups and other agency activities addressing how to open up utility planning, markets, and rates to enable energy storage to participate in as many as a dozen or more grid-supporting roles, as long as storage can prove that it is cost effective or that it can take on the appropriate technology-performance risk. At a time during which energy storage installations are increasing and prices of energy storage systems are decreasing, economic regulators must decide whether and how to facilitate the deployment of these resources in their States. The panel aims to explore what role energy storage technology could serve in meeting the simultaneous reliability, affordability and sustainability demands on the energy system, as well as the different types of regulatory barriers encountered by grid-scale versus customer-sited energy storage applications.

Energy Resources and the Environment

Electric Rate Design: Moving Beyond Net Energy Metering

(JOINT MEETING with the Staff Subcommittee on Rate Design)

2:30 p.m. - 3:45 p.m.

Moderator: *Hon. Donna Nelson, Texas*

Panelists: *Paul Gastineau, VP of Regulatory Affairs, CenterPoint Energy*
Rick Gilliam, Program Director DG Regulatory Policy, Vote Solar
Lon Huber, Director, Strategen
Debbie Kimberly, VP for Customer Energy Solutions, Austin Energy

Advances in technology, including distributed generation, electric vehicles, and “smart” appliances, combined with advanced metering infrastructure and more sophisticated utility monitoring systems may call for a more refined method of designing the rates charged to customers. A traditional \$/kWh structure may no longer be the most effective basis for rate design. Panelists will discuss how rate designs can affect choices made by customers, utilities, and other electric market participants. They will explain how rate designs can balance all major interests, provide a framework for stable regulation of utilities, and enable utilities to meet electricity requirements.

Natural Gas Pipeline Siting - Easy, right?

(JOINT MEETING with the Committee on Gas)

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

Moderator: *Hon. Pam Witmer, Pennsylvania*

Panelists: *Hon. Tony Clark, FERC*
Hon. Dianne Solomon, New Jersey
Sharon Buccino, Director, Land and Wildlife Program, NRDC
Allen Fore, Vice President, Public Affairs Kinder Morgan

The volume of natural gas that is being produced in the United States has increased exponentially from a previous record of 22,647,549 Mcf in 1973 to 27,336,644 Mcf in 2014. At the same time, consumption of natural gas by various sectors, including the energy sector, has also increased to 26,698,068 Mcf in 2014 and will likely continue to increase with implementation of the CPP. While consumption increases, there is a growing recognition that there is insufficient pipeline infrastructure to move the resource to areas of need. The pipeline siting process, regardless of whether the pipe is intrastate subject to state commission jurisdiction or interstate under FERC jurisdiction, often becomes contentious drawing concerns from a variety of fronts on issues ranging from property rights, to impacts to sensitive environmental areas to emissions from pipeline activities.

Energy Resources and the Environment

Tuesday, February 16 | 10:45 a.m. - 5:00 p.m.

Committee on Energy Resources and Environment | Renaissance East/Central

Business Meeting: Introductions and Presentations

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

Introductions *Hon. James Gardner, Kentucky*
Hon. Nancy Lange, Minnesota
Hon. Donna Nelson, Texas

Presentations *Wally Nixon, Commissioner's Legal Advisor, Arkansas*
Dan Delurey, Wedgemere Group, "The Evolution of Demand Response Dialogue Project"
Ron Edelstein, Gas Technology Institute
Ruth McCormick, Business Council for Sustainable Energy, "Sustainable Energy in America Factbook"
Lauren Ross, ACEEE, "Multifamily EE Program"
Tom Stanton, National Regulatory Research Institute
Barbara Tyran, Electric Power Research Institute

Are You Ready for the Distribution System Evolution?

1:15 p.m. - 2:30 p.m.

Moderator: *Hon. Nancy Lange, Minnesota*

Panelists: *Paul De Martini, Senior Fellow, ICF International*
Lorenzo Kristov, Principal, Market and Infrastructure Policy, CAISO
Jeff Smith, Manager, Power System Studies, Electric Power Research Institute

A diverse set of distributed energy resources is beginning to reshape infrastructure planning, grid operations, markets, and regulation. This panel offers a practical three-stage framework to assist State Commissioners as they plan for and guide the evolution of utility distribution systems.

Panelists will discuss actions that State regulators can take now to plan and develop a preferred distribution system tailored to meet the objectives of their jurisdiction, recognizing that safety, reliability, and efficient operation remain paramount. Potential models for a future operation of distribution systems will also be discussed, including an independent system operator versus the utility serving in that role.

Panelists include the authors of a new report for Lawrence Berkeley National Laboratory, "Distribution Systems in a High Distributed Energy Resources Future: Planning, Market Design, Operation and Oversight." The report is part of an innovative Future Electric Utility Regulation series funded by DOE that examines issues facing the electric industry with changing technologies, customer trends, and State and federal policies. The Manager of Distribution Planning for EPRI will tie the Integrated Grid work underway at EPRI with the findings of the new report.

Energy Resources and the Environment

Shared Renewables and Community Solar

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

Moderator: *Hon. Ellen Nowack, Wisconsin*

Panelists: *Sara Baldwin, Director, Regulatory Program, Interstate Renewable Energy Council*
Dan Chwastyk, Utility Strategy Manager, Solar Electric Power Association
Aakash Chandarana, Regional VP of Rates and Regulation, Xcel Energy

Although solar and other renewable resources deliver benefits across the country, the traditional panels-on-your-roof approach to solar simply doesn't work for the majority of Americans. The participation of families and businesses that rent, those with low credit scores, and those with shaded rooftops is limited. However, well-designed shared renewable energy programs can connect these Americans with the clean energy they want. Whether or not they own a suitable rooftop themselves, consumers would be able to subscribe to a local clean energy project and receive credit on utility bills for their portion of the clean power produced. This panel looks to address lessons learned from community solar programs.

After the Paris Climate Talks

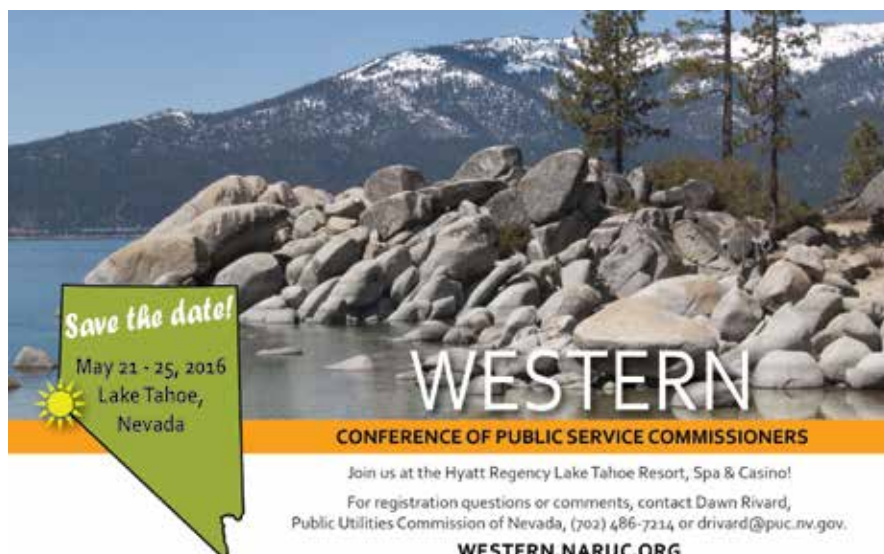
(JOINT MEETING with the Committee on International Relations)

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

Moderator: *Hon. Anne Hoskins, Maryland*

Panelists: *Jonathan Pershing, Principal Deputy Director, Office of Energy Policy and Systems Analysis, US Department of Energy*
Hon. Ann McCabe, Illinois
Steve Rose, Senior Project Manager-Global Climate Change, Electric Power Research Institute

The 2015 Paris Climate Conference (COP21) reached a landmark agreement setting a goal of limiting global warming to less than 2 degrees C. Meeting this goal will require a carbon-neutral world within a few decades. This panel will review the outcomes of COP21 and the implications for the United States. Panelists, all of whom were at COP-21, will discuss the overall agreement, the role of carbon trading in future compliance efforts and the path to implementation.



Sunday, February 14 | 9:00 a.m. - 5:00 p.m.

Staff Subcommittee on Pipeline Safety | MR 15

CLOSED SESSION: Pipeline Safety Meeting (Commissioners and Staff Only)

1:00 p.m. - 2:30 p.m.

Joint meeting of the Subcommittee on Pipeline Safety and Staff Subcommittee on Pipeline Safety

Sunday, February 14 | 1:00 p.m. - 4:30 p.m.

Staff Subcommittee on Gas | Renaissance West B

LDC Expansion

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

Moderator: *Andreas Thanos*, Massachusetts

Panelists: *Bill Senter*, VP Rates and Regulatory Affairs, Atmos Energy
Michael Fessler, Director Regulatory Affairs, UGI Utilities
Ken Costello, Principal Researcher, National Regulatory Research Institute

As States are looking into the appropriate process for extending gas LDC distribution systems to take advantage of the benefits associated with natural gas consumption, the discussion always comes back to the ratemaking treatment of costs. Oregon, like many other States is currently tackling the topic. The panel will address experiences both from the LDC and the commission perspective and get an update on the various efforts.

LNG Updates

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

Panelist: *Bill Allen*, Manager, Commercial Activities, Dominion Cove Point

Dominion continues to face opposition from environmental groups. This presentation, co-sponsored by the NARUC LNG Working Group, will provide an update on LNG-related matters, including a construction status report by Dominion and an LNG market update.

Sustainable Energy in America Factbook 2:20 p.m. - 2:50 p.m.

2:20 p.m. - 2:50 p.m.

Panelist: *Ruth McCormick*, Director Federal and State Affairs, Business Council for Sustainable Development

A presentation by the Business Council for Sustainable Development on the 2016 Factbook produced by Bloomberg New Energy Finance.

Natural Gas Outlook

2:50 p.m. - 3:15 p.m.

Panelist: Amy Farrell, Senior Director Market Development, American Petroleum Institute

API will present on production trends, pricing and demand markets (ANGA merged into API effective January 1, 2016).

The Future of Israel's Natural Gas Infrastructure

(Joint Meeting with Committee on International Relations)

3:15 p.m. - 4:00 p.m.

Moderators: Hon. Diane Burman, New York

Williams F. Hederman, Senior Advisor to the U.S. Department of Energy

Panelists: Brenda Shaffer, Visiting Professor, Georgetown University

Nick Welch, Director, International Government Relations and Communications, Noble Energy, Inc.

Barry Smitherman, Partner, Vinson & Elkins

Israel has, for many years, been considered an “energy island.” Until recently, Israel relied primarily on imported coal to fuel its base load electric power generation. Recently, Israel has discovered large offshore domestic natural gas deposits. Can and should Israel shift away from its current energy structure to more reliance on both imported and domestic natural gas as a way to meet future demand for electricity for its growing economy? Israel will need to make smart natural gas investment decisions in the near future while considering likely future levels of demand, the costs and availability of sources of fuel supply, security of fuel supply, future development of alternative technologies, reliability, environmental effects, and land use. This panel will explore the history and current state of natural gas in Israel.

Monday, February 15 | 10:45 a.m. - 5:00 p.m.

Committee on Gas | Congressional Ballroom

Can You Dig It?

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

Moderator: Hon. Paul Roberti, Rhode Island

Panelists: Daryl Bouwkamp, Senior Director Int'l Business Development & Gov't Affairs, Vermeer Corporation

Steve Canestrini, Operator Qualifications Manager, INTREN, Inc.

Brad Heck, Director of Compliance, Miller Pipeline

America's natural gas pipeline network consists of 320,000 miles of gas transmission pipelines and more than two million miles of gas distribution lines. In today's market, the vast majority of pipeline construction work is contracted out, highlighting the increasingly important role played by gas utility contractors across the country. Recognizing that excavation damage continues to be the largest single cause of gas pipeline incidents, the importance of participation in the one-call and damage prevention process cannot be overstated. Do exemptions to this process compromise safety? Should ALL stakeholders have a responsibility for effective damage prevention? This panel will look at the issue of damage prevention from the perspective of the nation's gas pipeline contractors. The discussion will focus on the training

of personnel working in the field; post-construction inspections; horizontal/directional drilling and other trenchless excavation methods; and how ongoing threats to underground gas utilities are addressed in the field.

Maintaining Natural Gas System Safety and Integrity

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

Moderators: *Hon. Stan Wise, Georgia*

Hon. Diane X. Burman, New York

Panelists: *Eduardo Balbis, Managing Director, Accenture Strategy*

Cheryl Campbell, Senior V.P. Gas Xcel Energy

Daphne D'Zurko, Executive Director, NYSEARCH and VP RD&D, Northeast Gas Association

Hon. Sherina Maye Edwards, Illinois

Eric Milto, Group Director, Upstream & Industry Operations at API

Natural gas utilities and transmission pipeline operators are continually working to improve safety and enhance the integrity and reliability of their systems. They are doing this by using state-of-the-art technology as well as accelerating the replacement of pipelines no longer fit for service. This session will feature an interactive demonstration of Columbia Pipeline Group's innovative "Intelligent Pipeline Solution" developed by GE and Accenture and a report on the current pipeline replacement efforts and trends across the country. We will discuss the appropriate management required for accelerated pipeline replacement programs. We will listen to the gas producer perspective on best management practices in the upstream arena. We will learn about how innovative technologies can provide pipeline safety and integrity opportunities.

Natural Gas CEO Wellhead to Burner Tip Panel

2:30 p.m. - 3:45 p.m.

Moderators: *Hon. Stan Wise, Georgia*

Panelists: *Ralph LaRossa, President & COO, Public Service Electric and Gas and Chairman of the AGA Board*

Steven Mueller, South Western

A frank discussion with natural gas distribution company CEOs, delving into the important and challenging issues that the natural gas industry is facing today.

Natural Gas Pipeline Siting-Easy, Right?

(JOINT MEETING with the Committee on Energy Resources and the Environment)

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

Moderators: *Hon. Pamela Witmer, Pennsylvania*

Panelists: *Hon. Tony Clark, FERC*

Hon. Diane Solomon, New Jersey

Sharon Buccino, Director, Land and Wildlife Program, NRDC

Allen Fore, Vice President, Public Affairs, Kinder Morgan

The volume of natural gas that is being produced in the United States has increased exponentially from a previous record of 22,647,549 Mcf in 1973 to 27,336,644 Mcf in 2014. At the same time, consumption of natural gas by various sectors, including the energy sector, has also increased to 26,698,068 Mcf in 2014 and will likely continue to increase with implementation of the CPP. While consumption increases,

there is a growing recognition that there is insufficient pipeline infrastructure to move the resource to areas of need. The pipeline siting process, regardless of whether the pipe is intrastate subject to State Commission jurisdiction or interstate under FERC jurisdiction, often becomes contentious, drawing concerns from a variety of fronts on issues ranging from property rights to impacts to sensitive environmental areas to emissions from pipeline activities.

Tuesday, February 16 | 10:45 a.m. - 5:00 p.m.

Committee on Gas | Congressional Ballroom

Reliability and Regional Coordination in Changing Gas and Electric Markets

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

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

Panelists: *Philip Moeller*, Senior Vice President, Edison Electric Institute; Former FERC Commissioner
Michelle A. Bloodworth, Executive Director, External Affairs MISO
Richard Smead, Managing Director Advisory Services, RBN Energy, LLC
Matt Paul, Executive Director, Generation Optimization and Corporate Fuel Supply, DTE Energy

Many natural gas-fired electricity generating units in the Midwest and the Northeast could not meet their commitments to produce energy in the last two winters because they could not obtain the fuel they needed to run. These types of fuel-related outages are particularly concerning because the electric industry's reliance on gas-fired generation is on the rise due to the low gas prices ushered in by the shale-drilling boom and stringent environmental regulations affecting coal-fired power plants. How have the electric and gas and industries, State and federal regulators and RTOs/ISOs responded to these challenges, and what, if anything, should they do differently going forward? Electric/Gas Coordination Panel will focus on three buckets: (A) Reliability, (B) Regional Coordination, and (C) Adaptation to Change.

The Evolution of Hydraulic Fracturing

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

Moderator: *Hon. Jolette Westbrook*, Massachusetts

Panelists: *Hon. Robert Anthony*, Oklahoma
Jim Tramuto, Vice President - Governmental & Regulatory Strategies, Southwestern Energy
Rick Simmers, Chief Ohio Department of Natural Resources, Division of Oil and Gas (invited)
New York State Representative, TBA

The technology of Hydraulic Fracturing ("fracking") was introduced several decades ago. Yet, in recent years we have seen the debate over this technology continue and, sometimes, intensify. This intensity begs for continuing an open and frank discussions about fracking. The participants of this panel will discuss fracking from different viewpoints including economic, environmental and social considerations.

“In God We Trust, All Others Must Bring Data.” William Deming

(JOINT MEETING with the Committee on Critical Infrastructure)

4:00 p.m. - 5:15 p.m.

Moderators: *Hon. Dianne Solomon, New Jersey*
Hon. Nick Wagner, Iowa

Panelists: *Magnus Borg, CIO, NiSource*
John Bryk, DNG-ISAC
John Cullinane, Washington Gas Light
Mark Dowd, InfoGPS Networks
Mark Kempic, NiSource
Adam Sedgewick, NIST

We need data for almost everything we do as regulators. But how do we protect and take control of our data? It is not just retailers and banks who are at risk. How can gas utilities and operators maintain proper safeguards of customer data, SCADA access, and operational control?

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International Relations

Sunday, February 14 | 10:00 a.m. - 5:00 p.m.

Committee on International Relations | Congressional Ballroom

Around the World with NARUC (Commissioners and Staff)

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

Moderator: *NARUC International Department*

Join NARUC's International Programs to learn more about how you can apply your skills to help solve some of the major energy problems facing emerging economies. During this informal information session, NARUC staff will take you "around the world" and share how NARUC members are making a difference in Africa, Eastern Europe, Asia, and elsewhere through collaboration with partners at home and abroad. If you've ever wanted to learn more about how to participate in NARUC's international activities, this is the time to do it.

CLOSED SESSION: Welcome and Introductions

1:00 p.m. - 1:05 p.m.

Moderator: *Hon. Anne Hoskins, Maryland*

Panelists: *Hon. Kenneth Hill, Tennessee*
Hon. Murray Doehler, Nova Scotia

CLOSED SESSION: Watt's In Your Rate: A Demonstration of NARUC International's Interactive Energy Simulation (Commissioners and Staff only)

1:05 p.m. - 2:15 p.m.

Moderator: *NARUC International Staff*

Implementing cost-reflective tariffs is a crucial factor in establishing financially viable electricity sectors and creating an environment that promotes private infrastructure investment. With the support of the United States Agency for International Development (USAID) Bureau for Economic Growth, Education, and Environment (E3), NARUC developed this innovative training that blends capacity building with scenario-based simulation to explore regulatory decision making and cost-reflective tariffs.

This training is designed to build the capacity of the regulator to review and approve electricity rates proposed by electricity utilities in the fictional country of Wulanda. As a participant, you will work in small teams with your fellow regulators to create the regulatory framework and balance competing priorities. Teams will debate real-world challenges and analyze how different regulatory choices impact customers, businesses, utilities, and the environment.

NARUC's International Programs staff has offered this training in Nigeria, Tanzania, and elsewhere to provide a foundational understanding of tariffs, ratemaking, and how to build consensus among stakeholders. By engaging all stakeholders in the energy sector, the training provides a platform for dialogue and can build understanding on how important cost-reflective tariffs are to the long-term strength of emerging economies.

Business Meeting

2:30 p.m. - 2:40 p.m.

Moderator: *Hon. Anne Hoskins, Maryland*

Terry Barnich Award Presentation

2:40 p.m. - 3:10 p.m.

Moderator: *Hon. Anne Hoskins, Maryland*

The Terry Barnich Award for Promoting International Cooperation Among Utility Regulators and Development of Professional Regulation is the highest honor bestowed by the NARUC Committee on international Relations. The award is presented annually to Commissioners or staff from State regulatory bodies or affiliated organizations and honors outstanding contributions to NARUC's international efforts. The award honors the memory of the former Chairman of the Illinois Commerce Commission (1989 to 1992), Terrence "Terry" Barnich, who was killed on Memorial Day, May 25, 2009, while working as the Deputy Director of the State Department office overseeing U.S. reconstruction projects in Iraq. He was a dedicated public servant and an active NARUC member.

The Future of Israel's Natural Gas Infrastructure

(JOINT MEETING WITH GAS)

3:15 p.m. - 4:00 p.m.

Moderator: *Hon. Diane Burman, New York*

Panelists: *William F. Hederman, Senior Advisor to the U.S. Department of Energy*
Brenda Shaffer, Visiting Professor, Georgetown University
Nick Welch, Director, International Government Relations and Communications, Noble Energy, Inc.
Barry Smitherman, Partner, Vinson & Elkins

Israel has, for many years, been considered an "energy island." Until recently, Israel relied primarily on imported coal to fuel its base load electric power generation. Recently, Israel has discovered large offshore domestic natural gas deposits. Can and should Israel shift away from its current energy structure to more reliance on both imported and domestic natural gas as a way to meet future demand for electricity for its growing economy? Israel will need to make smart natural gas investment decisions in the near future while considering likely future levels of demand, the costs and availability of sources of fuel supply, security of fuel supply, future development of alternative technologies, reliability, environmental effects, and land use. This panel will explore the history and current state of natural gas in Israel.

International Exchange Roundtable

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

Moderator: *Hon. Kenneth Hill, Tennessee*

Panelists: *Erin Hammel, Director of International Programs, NARUC*
Stephanie Duran, Director for International and External Partnerships, Office of Clean Coal and Carbon Management, US Department of Energy
Will Polen, Senior Director for Europe and Eurasia, US Energy Association

Join NARUC staff and representatives of other entities for a discussion of opportunities and challenges in international exchanges in utility development and regulation.

Telecommunications

Sunday, February 14 | 9:00 a.m. - 5:00 p.m.

Staff Subcommittee on Telecommunications | Ballroom North

Reports by National Representatives

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

Moderators: RUS – *Keith Adams*, Assistant Administrator, Telecommunications
NTIA Report – *Maureen Lewis*, Director
USDOT NG 911 Planning & Funding – *Laurie Flaherty*, RN, Coordinator-National 911 Program

Networking Break

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

Panel III: Carrier of Last Resort (COLR) in Transition

(JOINT SESSION with the Subcommittee on Telecommunications)

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

Moderator: *Kerri DeYoung Phillips*, Counsel Competition Division, Massachusetts Department of Telecommunications and Cable

Panelists: *Barbara Cherry*, The Media School, Indiana University
Lynn Follansbee, Vice President, Law & Policy, USTelecom
Brian Ford, Regulatory Counsel, NTCA-The Rural Broadband Association
Art Martinez, Vice President State Government Relations, CenturyLink
Barrett Sheridan, Assistant Consumer Advocate, Pennsylvania Office of Consumer Advocate
Joe Witmer, Commissioner Counsel, Pennsylvania

COLR represents a longstanding universal service policy throughout the country—that every American household have access to reliable and affordable phone service. At its most basic, the COLR obligation involves the requirement that a carrier offer service throughout its territory. In the midst of the current technology transition and the advent of alternate voice technologies and providers, recent FCC activity, and State regulatory changes, what is the status of COLR nationwide? Where does this leave the American consumer and what actions should State regulators take?

Lunch (On Your Own)

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

Panel IV: Emerging Issues Forum

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

Moderator: *Sherry Lichtenberg*, PhD, National Regulatory Research Institute

Panelists: *Alice Borrelli*, Director, Global Healthcare Policy, Intel
Jimmy Carr, CEO, All Points Broadband
Rick Cimerman, Vice President State Government Affairs, NCTA
Monica Martinez, Advisor to Mobile Future
Paul Vasington, Director, State Policy, Verizon
Matt Wood, Policy Director, Free Press

What will our telecommunications infrastructure look like in the future? Will voice continue to only be offered as a separate service or will it be folded into broadband service offerings as an app? Will wired service continue to exist? What new options will companies put on the table to enhance consumers' lives? How much bandwidth will the Internet of Things require? And how will we get there from here? Is there a place for State (or federal) regulation in the future? What will it be? This open discussion will address these questions and give providers, consumer groups, and State staff the opportunity to weigh in on these important questions..

BroadbandUSA Initiative

2:30 p.m. - 3:15 p.m.

Update - *Aimee Meacham* (NTIA)

Networking Break

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

Staff Final Resolution Discussion & Disposition

3:30 p.m. - 5:00 p.m.



MACRUC 21st Annual Education Conference *Lead Together...Lead Now*

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Registration will open in April 2016.

For more, information contact: Michelle Malloy (mamalloy@naruc.org).

Telecommunications

Monday, February 15 | 10:45 a.m. - 5:00 p.m.

Committee on Telecommunications | Ballroom North

Native American Telecommunications and Energy Access

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

Moderator: *Hon. Catherine Sandoval, California*

Panelists: *Sidney Dietz, Navajo Tribal Utility Authority & PGE Regulatory Relations Director*
Forest James, CEO, EnerTribe, Oregon, Member of the Smith River Tribe
Paul Romero, IS Director, The Yurok Tribe
Tracy Stanhoff, President, American Indian Chamber of Commerce California, Former Tribal Chair, Prairie Band of Potowatomini Nation, Kansas
TBA

This panel will discuss access to and the development of improved communications and electrical services and infrastructure in Native American communities, focusing on tribal lands. Many States, the federal government, and tribes have identified Native Americans as among the most underserved communities for broadband access and basic communication services. On some Native American reservations, electricity, dial tone, and 9-1-1 communication services are not universally available. We will explore how NARUC, in consultation with Tribal authorities, States, the federal government, and other sectors, can address this universal service gap.

Enabling Competition in a Broadband World

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

Moderator: *Sherry Lichtenberg, PhD, National Regulatory Research Institute*

Panelists: *Hon. Crystal Rhoades, Nebraska*
Jonathan Banks, Senior Vice President, Law and Policy, US Telecom Association
Harold Feld, Vice President, Public Knowledge
John Jones, Senior Vice President, Policy and Government Relations, CenturyLink
Angie Kronenberg, Chief Advocate and General Counsel, Incompass
Chris Murphy, Associate General Counsel, Regulatory Affairs, ViaSat

This panel will examine the question of how we can (or should) ensure competitive choice after the transition to a broadband network. The panel will focus on the ways in which the States, the FCC, and others can assess, measure, and increase competition for broadband service, particularly in areas where networks are being funded through government investment, including CAF funds, USF monies, and other methods. Finally, the panel will explore how to increase competition among these networks, particularly in rural areas, and will look at the question of whether incenting competition should continue to be a key goal of telecommunications policy.

The '96 Act Turns 20: What Has It Helped; What Has It Hurt?

2:30 p.m. - 3:45 p.m.

Moderator: *Hon. Gregg Sayre, New York*

Panelists: *Hon. Elliott Elam, South Carolina*

Nick Alexander, Associate General Counsel for Federal Affairs, Level 3

Jennie Chandra, Vice President Public Policy and Strategy, Windstream

Hank Hultquist, Vice President Federal Regulatory, AT&T

Olivia Wein, Staff Counsel, National Consumer Law Center

The Telecommunications Act of 1996 was signed into law on February 8, 1996. It set up a new framework for competition including provisions dealing with resale, unbundled network elements, interconnection agreements subject to adoption and arbitration, reciprocal compensation, Customer Proprietary Network Information, universal service, regulatory forbearance, the promotion of advanced services, special restrictions on the Bell Operating Companies and many more. Twenty years down the road, the telecom world looks very different and the '96 Act certainly had something to do with how conditions developed. In this session, participants will discuss what worked, what didn't, whether it's currently helping or hindering competition, what are the burning issues in its interpretation, and how it could be improved.

Committee on Telecommunications Business Meeting

4:00 p.m. - 5:15 p.m.

Hon. Chris Nelson, South Dakota, Chair

Hon. Paul Kjellander, Idaho, Co-Vice Chair

Hon. Catherine Sandoval, California, Co-Vice Chair



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Telecommunications

Tuesday, February 16 | 10:45 a.m. - 5:00 p.m.

Committee on Telecommunications | Ballroom North

FCC Bureau Chiefs

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

Moderator: *Hon. Catherine Sandoval, California*

Panelists: *Matthew DelNero, Bureau Chief, FCC Wireline Competition Bureau*
Travis LeBlanc, Bureau Chief, FCC Enforcement Bureau
David G. Simpson, Rear Admiral (Ret.), USN, Bureau Chief, FCC Public Safety and Homeland Security Bureau
Mark Stone, Deputy Bureau Chief, FCC Consumer & Governmental Affairs Bureau

Lifeline and Coordinated Enrollment

1:15 a.m. - 2:30 p.m.

Moderator: *Hon. Ronald Brisé, Florida*

Panelists: *Rick Boucher, Honorary Chairman, Internet Innovation Alliance*
David Hostetter, Assistant Vice President - Public Policy, AT&T
Randolph May, President, The Free State Foundation
Mark Rubin, Senior Executive for Government Affairs, TracFone Wireless
Nicol Turner-Lee, PhD, Vice President and Chief Research & Policy Officer, Multicultural Media, Telecom & Internet Council

Assuring limited resources are appropriately targeted to consumers in need is at the heart of the federal Lifeline program. This is especially true as the Federal Communications Commission looks to expand its support to broadband services. This panel will address the eligibility coordinated enrollments and provide best practices. Panelists will also discuss:

- How to incent States to develop dependable means-tested processes to verify consumer Lifeline eligibility?
- Does the FCC have the authority to utilize universal service funds to finance the development and implementation of Lifeline eligibility verification systems at the State level?
- Should the FCC require standards or let the States decide?

Closed Session: Briefing on USAC Program Activities

(JOINT MEETING with Telecommunications and Consumer Affairs Committees)

2:45 p.m. - 5:00 p.m.

Moderator: *Hon. Paul Kjellander, Idaho*

The Telecommunications and Consumer Affairs Committee members and staff will convene a briefing hosted by Universal Service Administrative Company leadership for an update regarding the administration of all four Federal Universal Service fund program areas including contributions. This session is intended to elicit feedback from Commissioners and staff on USAC's administration of these program areas. This briefing is for State Commissioners and staff only.

Monday, February 15 | 10:45 a.m. - 5:00 p.m.

Committee on Water | Renaissance West A

“Smart” Ways to Manage Water: The Benefits of Cloud Computing

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

Moderator: *Hon. Brien Sheahan, Illinois*

Panelists: *Fred Butler, President and Chief Executive Officer, Butler Advisory Services*
Jim Jenkins, Vice President, Regulatory and Public Policy, American Water
Cloud Provider, TBD

The water utility industry is increasingly exploring the deployment of advanced metering infrastructure to provide better customer service and increase operational efficiency. Advanced analytics enable water utilities to deliver important benefits such as eliminating leaks and inefficiencies, lowering operating costs, and improving water conservation. Recent developments in “cloud computing” enable water to utilities to bring together various information technology systems to leverage data sharing, analysis, and interoperability for the benefit of customers. Come learn about the cloud and how it can improve the water industry.

Is the Price Right?: Maintaining the Affordability of Water Service

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

Moderator: *Hon. Kenneth Hill, Tennessee*

Panelists: *Jan Beecher, Director, Institute of Public Utilities at Michigan State University*
Alan Roberson, Director of Federal Relations, American Water Works Association
Susan Satter, Public Utilities Counsel to Illinois Attorney General Lisa Madigan
Karla Teasley, Vice President, Customer Service, American Water

Utilities face various factors that place upward pressure on rates. Whether it is replacing aging infrastructure, addressing storm preparedness and storm damage, instituting conservation measures, implementing government mandates, utilities and their economic regulators must balance such pressures and maintain the affordability of water service. The panelists will draw upon their diverse backgrounds to discuss the various factors placing upward pressure on rates and how those factors can be balanced with maintaining affordable rates for water service.

EPA’s Waters of the United States Rule: What Effects Could it Have on Water Utilities?

2:30 p.m. - 3:45 p.m.

Moderator: *Hon. Robert Powelson, Pennsylvania*

Panelists: *Hon. Randy Randall, South Carolina*
Jonathan Wood, Environmental Staff Attorney, Pacific Legal Foundation
Brandyn Hancocks, Compliance Manager, Golden State Water Company
EPA Representative, TBD

The Environmental Protection Agency’s recent “waters of the United States” (WOTUS) rule revised the definition of WOTUS for all Clean Water Act programs. How will the rule affect water utilities in the provision of affordable water services? The panel will discuss the rule and the ramifications for water utilities and the Commissions that regulate those utilities.

Business Meeting

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

Items of Business of the Water Committee will be covered, including discussion and action on resolutions and approval of the minutes from the Annual Meeting. Additionally, updates from the various partners of the Water Committee will be given, including NAWC, NARUC, WRF, NRRI, and NARUC's Rate School.

Tuesday, February 16 | 10:45 a.m. - 5:00 p.m.

Committee on Water | Renaissance West A

Commissioners' Roundtable

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

Moderator: *Hon. Alaina Burtenshaw Nevada*

The Commissioners' Roundtable is an opportunity for Commissioners to have an open discussion regarding current issues, water utility trends, and ideas for the future of water utility regulation.

Safe and Secure: Maintaining the Security of our Water Utilities

(JOINT MEETING with Committee on Critical Infrastructure)

1:15 p.m. - 2:30 p.m.

Moderator: *Hon. Carolene Mays-Medley, Indiana*

Panelists: *Michael Arceneaux, Managing Director, Water Information and Sharing Analysis Center*
Nick Santillo, Director of Physical and Cyber Security, American Water
Kevin Tingley, P.E., U.S. Environmental Protection Agency, Water Security Division

Recent events have highlighted the importance of maintaining the security of utility services. Access to safe sources of water is critical for maintaining health and safety. Water utilities face both physical and technological threats. What are water utilities doing to address those threats? The panelists will give their perspectives on the security threats faced by water utilities, how those threats are being and will be addressed, and the role of utility commissions.

What's it Worth to You?: Valuation of Water Systems

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

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

Panelist: *Anthony Festa, Senior Director, Alvarez & Marsal Valuation Services*

At the NARUC Annual Meeting in Austin, the Water Committee heard about advancements in leak detection and water utility pipeline condition assessment. This session will follow up and delve into how such assessments translate into the larger issue of water utility valuation. Anthony Festa will discuss valuations methods and procedures for water utilities, including case studies.

Like a Well-tuned Machine: The Role of Energy Efficiency for Water Utilities

4:00 p.m. - 5:15 p.m.

Moderator: *Hon. John W. Betkoski, III, Connecticut*

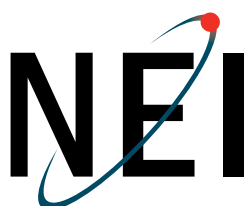
Panelists: *Ernest Jolly, Energy Chief, District of Columbia Water and Sewer Authority*
Elizabeth Watson Keddy, Energy Manager, SUEZ North America
Robert MacLean, President, California American Water and Hawaii American Water

Energy efficiency is an important consideration for water utilities. What are water utilities implementing in terms of energy efficiency? What is driving the implementation of energy efficiency measures? Are water utility customers realizing any benefits from energy efficiency? The panelists will discuss these issues and their experiences with energy efficiency.



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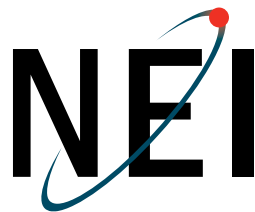
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