NARUC Summer Committee Meetings

Program by Day

Agenda and times are subject to change

Select to view a single Committee: select Committee... go

Friday, July 19

2:00 PM-5:00 PM **Staff Subcommittee on Telecommunications**

2:00 PM **Closed Subcommittee Meeting**

5:00 PM **Adjourn for the Day**

Saturday, July 20

9:00 AM-5:00 PM **Staff Subcommittee on Telecommunications**

9:00 AM **Preliminary Matters**
Review Agenda
Other Administrative Matters

9:15 AM **Reports from NARUC**
* Litigation Report - *Brad Ramsay* (NARUC)
* Legislative Report - *Brian O'Hara* (NARUC)

9:30 AM **Small Market Smack Down**

10:45 AM **Rural Wireless Coverage/Mobility Fund**
Lynn Notarianni -
(CA)

12:00 PM **Lunch (on your own)**

1:30 PM **ATTIS Views on the PSTN to IP Evolution**
Bill Johnston, CA
Roxanne Scott, CA

2:45 PM **Networking Break**

3:00 PM **Initial Presentation and Discussion of Resolutions**

4:00 PM **Resolution Discussion - Industry Reaction**

12:00 PM-3:00 PM **Subcommittee on Education and Research**

12:00 PM **Closed Executive Session**
Working lunch for Committee and Staff Subcommittee members only

1:00 PM **Welcome and Introductions**
Hon. Jim Gardner - Subcommittee Chair, KY

1:10 PM **Approval of Minutes**

1:15 PM **NRRI Update**
Dr. Rajnish Barua - Executive Director, NRRI

1:30 PM **Annual Reports**
(10 minutes each)
Speakers Dr. Jan Beecher - Director, Institute of Public Utilities, MSU
Dr. Douglas Gegax - Director, Center for Public Utilities, NMSU
Ted Kury - Director of Energy Studies, Public Utility Research Center, UFL

2:00 PM **Certificate of Continuing Regulatory Education Update**
Dr. Jan Beecher - Director, Institute of Public Utilities, MSU

2:15 PM **Update on Subcommittee Projects**
* 2013 Summer Internships (NARUC & CFEBA)
* New Commissioner Regulatory Orientation
* Other

Erin Hammel - Director, International Programs, NARUC

2:30 PM **Review of Applications for Support**

2:40 PM **New Business**

2:50 PM **Adjourn**

2:30 PM-2:45 PM *Networking Break*
3:00 PM-5:00 PM **Executive Committee**
3:00 PM-5:00 PM **NRRI Research Presentations**

3:00 PM **NRRI Colloquium**
This session will consist of presentations by NRRI's researchers about their current applied research (to be published in July). Audience members will be able to interact with NRRI's researchers and receive an overview of future projects, including topics for research papers and teleseminars. NRRI is NARUC's research arm, and publishes 12-16 research papers annually and hosts monthly teleseminars on topics of current interest.

5:30 PM-6:30 PM **NRRI Board Meeting (closed meeting)**

Sunday, July 21

8:00 AM-6:30 PM *On-Site Registration Open*
8:45 AM-11:45 AM **Sunday Morning Collaborative**
9:00 AM-11:45 AM **Staff Subcommittee on Consumer Affairs**

9:00 AM **Introduction and Welcome**
Sandra S. Sloane - Director, Consumer Services, NYSPSC

9:05 AM **Reports**
* SNAP
* Lifeline

10:15 AM **Networking Break**

11:30 AM **Resolution**

12:00 PM **Adjourn**

9:00 AM-11:45 AM **Subcommittee on Utility Marketplace Access**

9:00 AM-4:30 PM **Staff Subcommittee on Telecommunications**

9:00 AM **Joint Board Reports**

* Separations - *George Young* (VT)
* Universal Service - *Labros Pilalis* (PA)

9:15 AM **Subgroup Reports**

* Technology - *TBD* (NH)
* Federal Legislation - *Roxanne Scott* (CA)
* Federal Regulation - *Joe Witmer* (PA)
* State Regulation - *Jeff Richter* (WI)
* Consumer Issues - *Sean Carrol* for Karlen Reed (MA)
* Service Quality - *Lynn Notarianni* (CO)

9:30 AM **Reports by National Representatives**

* FCC Report - *Trent Harkrader, Associate Bureau Chief, WCB*
* 706 Conference Update - *Brian Mahern* (IN)
* NRRI Report - *Sherry Lichtenberg*
* NTIA Report - *Jim McConnaughey*
* RUS Report - *TBD*

10:30 AM **Lifeline Recertification (Joint Panel with Consumer Affairs)**

Moderator Kay Marinos (OR)

Panelist Trent Harkrader - Associate Bureau Chief, WCB, FCC

12:00 PM **Lunch (on your own)**

1:15 PM **Numbering Update**

Brent Struthers - Senior Director State Regulatory Affairs, NeuStar

1:45 PM **Final Resolution Discussion**

3:00 PM **Is There a Gigabit in Your Future? And What Would You Do With It?**

Moderator Sherry Lichtenberg, NRRI

Panelists Google Policy Council
Heather Gold - President, Fiber To The Home Council
Blair Levin - Fellow, The Aspen Institute
Joe Kochan - COO, US Ignite

4:30 PM **Adjourn for the Day**

10:15 AM-10:30 AM *Networking Break*

10:30 AM-12:45 PM **New Commissioner Forum**

The Forum is for Commissioners attending their first NARUC meeting.

1:00 PM-3:00 PM **Staff Subcommittee on Electricity**

1:00 PM **Customer Engagement**

Can electricity users be persuaded to change how they use electricity? Do customers practice economically rational behavior or are there other driving forces? How can these programs work? Hear about some success stories and learn the Do's and Don'ts. Policy makers, utilities, and other stakeholders have to understand their customers and hear these results in order to create the most effective programs.

Kristin Ralff Douglas - Senior Policy Analyst, California Public Utilities

Commission
Jamie Wimberly - CEO, DEFG and EcoAlign
Justin Segall - Founder and Executive Vice President, Simple Energy

1:00 PM-3:00 PM **Staff Subcommittee on Energy Resources and the Environment**

1:00 PM **Clean Cities, Green Cities**

Communities across the country are taking steps to clean up their energy, water and transportation infrastructure systems and create livable, sustainable cities. In this session, panelists will learn how Fort Collins, Colorado and Greensburg, Kansas started from two very different places when deciding to reduce their environmental footprints and incorporate innovative low-carbon energy technologies into their electric systems. On May 4, 2007 an EF5 tornado leveled the rural town of Greensburg, Kansas. Just days after the storm, the community came together and decided to rebuild sustainably, striving to become a model green town for the future with city and county officials, business owners and local residents working together to incorporate sustainable principles into their rebuilding process. What sets Fort Collins apart from other clean energy-focused communities? The municipally-owned Fort Collins Utilities enables the private sector to test energy technologies, products and services on its grid system. Projects include solar panels on private and public buildings, electric vehicle plug-in stations and generator upgrades at select public building sites.

Moderator Ellen Vancko - Senior Advisor, Maryland Public Service Commission

Panelists John Phelan, Fort Collins, CO
Representative, NREL (Invited)

2:00 PM **Electricity Storage Update**

Electricity storage technologies are increasing in capability and decreasing in cost, which makes them increasingly practical components of the grid. As the new technologies make it out of the R&D phase and into commercial viability, state public utility regulators will be asked to ensure that rate designs accurately address electricity storage benefits and costs to the grid. This session reviews the benefits that electricity storage is ready to provide and outlines the associated regulatory challenges and recommended approaches.

Moderator Tom Stanton, National Regulatory Research Institute

Panelists Dhruv Bhatnagar, Sandia National Laboratory
Praveen Kathpal, AES Energy Storage
State Commission Representative, Invited

1:00 PM-3:00 PM **Subcommittee on Clean Coal and Carbon Sequestration**

1:00 PM-4:00 PM **Committee on International Relations**

1:00 PM-5:00 PM **Committee on Consumer Affairs**

1:00 PM **Welcome and introductions**

Hon. Betsy Wergin - Commissioner, Minnesota Public Utilities Commission

1:10 PM **Natural Gas Energy Efficiency Programs - Are They Still Beneficial to Consumers in Light of the Decline in the Cost of Natural Gas?**

Energy efficiency is deemed by many to be the cheapest, cleanest, and overall best energy resource, for both electric and gas utilities. Utilities, or in some states, third party administrators, have used ratepayer dollars to help fund energy efficiency programs. Gas prices today are at historic lows, raising the question if conservation programs are still cost-effective. How do we determine whether such a program is cost-effective? What test, or tests, should utilities and commissions use? Can the evaluation of programs targeting low-income consumers be tailored to their particular circumstances? How should cost-effectiveness tests reflect difficult to quantify values, including risk mitigation, non-energy benefits, and a policy preference for the use of less fossil fuel? What should utilities and regulators do to evaluate existing gas energy efficiency programs?

Moderator Hon. Jeff Goltz - Commissioner, Washington Utilities and Transportation Commission

Panelists Tim Woolf - Vice President, Synapse Energy Economics, Former Massachusetts Commissioner
Michele Beck - Director, Utah Office of Consumer Services
Bill Edmonds - Director, Environmental Management & Sustainability, NW Natural

2:25 PM **Networking Break**

2:40 PM **Business Session**

3:00 PM **CCIF - Distributed Energy**

Hon. Lisa Edgar - Commissioner, Florida

4:15 PM **Updates**

5:00 PM **Adjourn**

1:00 PM-5:00 PM **Committee/Staff Subcommittee on Critical Infrastructure**

1:00 PM-5:00 PM **Staff Subcommittee on Gas**

1:00 PM **Welcome and Introductions**

Bob Reed - Natural Gas Director, Alabama PSC
Laura Demman - Director and Legal Counsel, Natural Gas Department, Nebraska PSC

1:10 PM **New Products in the Climate Normals Portfolio**

Many states and LDCs use NOAA 30 heating degree day normals for budgeting, load forecasting, and other applications. In recent years the energy industry and the National Climatic Data Center (NCDC) have been in dialog to explore and develop new products in the Climate Normals portfolio (such as 10-year averages, linear fits, and other optimized solutions) that are more representative of current climate conditions, and which may be more

appropriate for long-term planning considerations.

Representative, National Climatic Data Center

2:00 PM **Environmental and Operational Innovations in Natural Gas Production**

The technological breakthrough of extracting natural gas through hydraulic fracturing has revolutionized America's domestic energy outlook. Recent improvements in the production have benefited the environment and helped to hold the costs of extracting natural gas. One such improvement captures the methane gas from the production site and uses it to power production energy demands instead of the use of more pollutant fuel sources. This session will explore the innovative practices producers are using to ensure natural gas is the safe and abundant fuel of choice for the U.S. in the decades to come.

Chad Odegard - Vice President - Piceance Basin , WPX Energy

2:30 PM **Networking Break**

2:45 PM **Environmental and Operational Innovations in Natural Gas Production**

The technological breakthrough of extracting natural gas through hydraulic fracturing has revolutionized America's domestic energy outlook. Recent improvements in the production have benefited the environment and helped to hold the costs of extracting natural gas. One such improvement captures the methane gas from the production site and uses it to power production energy demands instead of the use of more pollutant fuel sources. This session will explore the innovative practices producers are using to ensure natural gas is the safe and abundant fuel of choice for the U.S. in the decades to come.

Representative, WPX Energy

5:00 PM **Adjourn**

1:00 PM-5:00 PM **Subcommittee and Staff Subcommittee on Pipeline Safety**

2:15 PM-2:30 PM *Networking Break*

3:15 PM-5:00 PM **Staff Subcommittee on Electric Reliability**

3:15 AM **Economics of Planning for Resource Adequacy: Alternatives to the 1-day-in-10 standard**

The 1 day in 10 criterion has long been the industry standard for measuring the acceptable risk of a sustained outage on the bulk electric system. Is this approach too aggressive, resulting in needless and inefficient capacity investments? Or is the standard too low and not reflective of the true cost to society from prolonged outages? This session will explore alternative approaches to setting reserve margins to achieve optimum balance of costs and benefits.

Speakers Kevin Carden - Director, Astrape Consultants
James Wilson - Principle, Wilson Energy Economics
TBA

3:30 PM-5:00 PM **Washington Action meeting (Commissioners/Staff only)**
3:45 PM-4:00 PM *Networking Break*
5:00 PM-6:30 PM *Welcome Reception*

Monday, July 22

8:00 AM-5:00 PM *On-Site Registration Open*
8:30 AM-10:30 AM **General Session**

8:30 AM **Known and Unknown Knowns: How Do We Measure Cybersecurity?**

Many organizations, including NARUC, advocate the use of risk management for prioritizing utility cybersecurity investments. But what do those risk management processes look like? And how do we know if we're succeeding? Participants will articulate the challenges of defining cybersecurity metrics, sharing them across industry, the structures that assure that it is being taken seriously, and the possible ways forward for regulators and utilities. What is the right amount of cybersecurity, and how will we know? Attend this session to find out.

Moderator Hon. Philip Jones - Commissioner, Washington UTC

Panelists Hon. Arthur House - Commissioner, Connecticut
Ben Fowke - Chairman, President & CEO, Xcel Energy, Inc.

9:45 AM **Are We there Yet? Broadband Adoption and the National Broadband Plan-What Now?**

The Federal Communications Commission rolled out the National Broadband Plan with much fanfare in March 2010. Three years later, broadband technologies are widely available and improving each day. Yet these advances have not been felt everywhere. Can wireless broadband provide the speeds and quality of service to meet the needs and applications for all that we are asking it too? At the same time, how can States push the ball forward and bring broadband to all corners of the country? In this session, federal, industry, and State officials will discuss best practices for broadband expansion. Attendees will learn whether broadband is expanding quickly enough to handle new demands, such as expanded e-government, telemedicine, distance learning, and much more.

Moderator Hon. Geoffrey Why - Commissioner, Massachusetts Dept. of Telecommunications & Cable

Panelists Hon. Jessica Rosenworcel - Commissioner, Federal Communications Commission
Larry Strickling - Asst. Sec. for Communications and Information, NTIA, US Department of Commerce

8:30 AM-2:30 PM **Committee on International Relations**

8:30 AM **General Session**
See agenda as listed for the General Session.

10:30 AM **Networking Break**

8:30 AM-5:15 PM **Committee on Consumer Affairs**

8:30 AM **General Session**

See agenda as listed for the General Session.

10:30 AM **Networking Break**

8:30 AM-5:15 PM **Committee on Critical Infrastructure**

8:30 AM **General Session**

See agenda as listed for the General Session.

10:30 AM **Networking Break**

2:30 PM **Smaller Companies Step up Big to Cyber-Security Challenges**

Joint session with the Committee on Water

See agenda as listed for Committee/Staff Subcommittee on Water

8:30 AM-5:15 PM **Committee on Electricity**

8:30 AM **General Session**

See agenda as listed for the General Session.

10:30 AM **Networking Break**

10:45 AM **Subcommittee on Nuclear Issues - Waste Disposal**

Joint session with the Subcommittee on Nuclear Issues - Waste Disposal

See the agenda as listed for the Subcommittee on Nuclear Issues- Waste Disposal

1:00 PM **A Compelling Picture of China's Electric System Growth**

Joint session with the Committee on International Relations

This panel will provide an extensive overview of China's current and future electric power infrastructure, including all major sources of electricity generation and the strategy and practice of Smart Grid. One presentation will highlight China's massive build of new electric generation with global comparisons. The presentation will provide a comprehensive look at all generation in China and show how the build of coal-fired power generation compares to other generation sources. Economic, environmental and policy drivers are discussed and key uncertainties in China's future are highlighted. With 2012 revenues of $302 billion, State Grid Corporation of China ranked seventh in the 2012 Fortune Global 500 list of the world's largest companies by revenue. As the world's largest electric transmission and distribution company with over a billion customers, and as a global leader of renewable power, its scale and operating experience are unparalleled. Learn about State Grid's strategy and development of smart grid with a vision of global implications. Its research and development capabilities have allowed it to create a world-class high voltage power delivery system.

Jarad Daniels, Director - What is China doing? A look into China's Massive Build of New Generation, Department of Energy, Office of Planning and Environmental Analysis

Kai Xie, President - Lessons Learned From the World's Largest Electric Utility: State Grid Corporation of China's , State Grid Corporation of China, US Representative Office

2:30 PM **Key Drivers in the Adoption of Distributed Energy Resources**
Joint session with the Committee on Energy Resources and the Environment
See agenda as listed for the Committee on Energy Resources and the Environment

4:00 PM **Gas and Electricity Interdependencies**
Joint session with the Committee on Gas
See agenda as listed for the Committee on Gas

8:30 AM-5:15 PM **Committee on Energy Resources and the Environment**

8:30 AM **General Session**
See agenda as listed for the General Session.

10:30 AM **Networking Break**

10:45 AM **Improving the Integration of Renewable Energy**
This session will explore ways to overcome challenges to integrating more renewable resources into the grid. The speakers will discuss better prediction of variability and strategies to reduce it; optimization of power plants, reserves, transmission systems, and storage; improved planning of renewable capacity expansion activities; and the regulations, rate structures, and standards needed to make it happen.

Moderator Hon. Jeanne Fox - Commissioner, New Jersey Board of Public Utilities

Panelists Jay Apt - Director, Carnegie Mellon Electricity Industry Center, Carnegie Mellon University
Michael Dworkin - Director, Institute for Energy and the Environment, Vermont Law School

1:00 PM **Transitioning to a Clean Energy Future and Lowering GHG Emissions**
Joint session with the Committee on International Relations
Around the globe countries are taking different paths to meet the energy needs of their citizens and economies while striving to reduce their greenhouse gas emissions, improve the sustainability of their societies and protect the environment. In this session, representatives from the United States, Germany and China will discuss the steps these countries are taking to reduce their GHG emissions through the adoption of low-carbon technologies in their energy, housing and transportation sectors. They will talk about the policies, programs and successes achieved to date, as well as the challenges they face in reaching their stated goals.

Moderator TBD

Panelists Jonathan Pershing - Deputy Assistant Secretary for Climate, U.S. Department of Energy
Oliver Krischer - Member, German Parliament
China, TBD

2:30 PM **Key Drivers in the Adoption of Distributed Energy Resources**

Joint session with the Committee on Electricity
Technological advancement, new financing approaches, and falling prices are driving rapid changes in the adoption of distributed energy resources (efficiency, distributed generation, demand response, electric vehicles), with significant implications for the electricity sector. In depth analyses and early examples indicate that as these resources increase their penetration over the next decade, they will challenge existing regulatory models and spur alternative markets that will change the electricity system in potentially transformative ways. These trends have important implications for utilities, including risks to the conventional business model, changing requirements for customer engagement, and the need to coordinate a much larger number of resources and actors. In this environment, regulators must proactively assess future trends, consider potential significant regulatory changes, and engage with a wider array of stakeholders to develop win-win solutions.

Moderator Phyllis Reha , Commissioner Emeritus, Minnesota

Panelists Angie Beehler, Walmart
Andrew Ott - Senior Vice President, Markets, PJM
Robert Curry - Commissioner Emeritus, New York

4:00 PM **Business Meeting**

8:30 AM-5:15 PM **Committee on Gas**

8:30 AM **General Session**
See agenda as listed for the General Session.

10:30 AM **Networking Break**

10:45 AM **LNG: Exporting**
Hon. Jolette Westbrook - Commissioner, Massachusetts Department of Public Utilities

1:00 PM **Innovative Rate Making Approaches to Reaching New Customers with Natural Gas**
Hon. John Quackenbush - Chairman , Michigan Public Service Commission

2:30 PM **Pipeline Safety**
Hon. Paul Roberti - Commissioner, Rhode Island Public Utilities Commission

4:00 PM **Gas and Electricity Interdependencies**
Joint session with the Committee on Electricity
This panel will focus on differing and common approaches being taken by organized markets and those outside organized markets to coordinating the electric generation and natural gas industries. The panelists will address how questions of urgency are being analyzed and approached by the various power balancing authorities, and how are each engaging the key stakeholders in each area to proactively solve problems, including

participation in FERC technical conferences, and so forth.

Moderators Hon. Susan Ackerman - Chair, Oregon
Hon. Todd Snitchler - Chair, Ohio
Hon. Philip Moeller - Commissioner, FERC

Panelists Jeff Burleson - VP System Planning, Southern Company
Alaine Ginnochio, Western Interstate Energy Board
Clair Moeller, MISO
Andy Ott, PJM

8:30 AM-5:15 PM **Committee on Telecommunications**

8:30 AM **General Session**
See agenda as listed for the General Session.

10:30 AM **Networking Break**

10:45 AM **FirstNet - Public Safety Network**
Hon. Anne Boyle - Commissioner, Nebraska

11:45 AM **Networking Break**

1:00 PM **Next Generation 911**
Hon. Ryan Palmer - Commissioner, West Virginia

2:15 PM **Networking Break**

2:30 PM **The Lifeline USF Program**
Hon. Swati Dandekar - Commissioner, Iowa

3:45 PM **Networking Break**

5:00 PM **Adjourn**

8:30 AM-5:15 PM **Committee/Staff Subcommittee on Water**

8:30 AM **General Session**
See agenda as listed for the General Session.

10:30 AM **Networking Break**

1:00 PM **The Calm Before the Storm - Preparedness for Storm Response**
Case studies of Storm preparation and response efforts including Hurricane Sandy experiences in NJ and NY.

2:30 PM **Smaller Companies Step up Big to Cyber-Security Challenges**
Joint session with Committee on Critical Infrastructure
Challenges of addressing cyber-security for small to medium sized companies.

10:30 AM-10:45 AM *Networking Break*

10:45 AM-11:45 AM **Subcommittee on Nuclear Issues- Waste Disposal**

10:45 AM **Welcome and Introductions**
Hon. Greg White - Committee Chair, MI

10:50 AM **Legal Updates**
Speaker J. Brad Ramsay - General Counsel, NARUC

11:00 AM **Overview of US Senate Legislation**
Speaker Hon Greg White - Committee Chair, MI

11:15 AM **Discussion on "Consent-Based" Siting**
Speaker TBA

11:45 AM-1:00 PM	*OPSI Luncheon (invitees only)*
2:15 PM-2:30 PM	*Networking Break*
3:45 PM-4:00 PM	*Networking Break*
5:15 PM-6:00 PM	**MACRUC Regional Meeting (invitees only)**
5:15 PM-6:00 PM	**MARC Regional Meeting (invitees only)**
5:15 PM-6:00 PM	**NECPUC Regional Meeting (invitees only)**
5:15 PM-6:00 PM	**SEARUC Regional Meeting (Invitees Only)**
5:15 PM-6:00 PM	**WESTERN Regional Meeting (invitees only)**

Tuesday, July 23

8:00 AM-5:00 PM	*On-Site Registration Open*
9:00 AM-5:15 PM	**Committee on Electricity**

9:00 AM **Carbon Tax vs Cap and Trade**

Joint session with the Committees on Energy Resources and the Environment and Gas
Moderator Hon. Philip Jones - NARUC President, Washington
Panelists Yoram Bauman - Fellow, Sightline Institute
Mary Nichols - Chairman, CA Air Resources Board
Bruce Braine, AEP

10:30 AM **Addressing Climate Mitigation and Adaption: National Climate Assessment**
Joint session with the Committee on Energy Resources and the Environment
See agenda as listed for the Committee on Energy Resources and the Environment

1:00 PM **TBD**

2:30 PM **Business Meeting**
* Oral Reports
Legislative Activities - *Chris Mele*, NARUC
Legal Issues - *Holly Rachel Smith*, NARUC
Nuclear Issues/Waste Disposal Subcommittee - *Hon. Greg White*, Michigan
Clean Coal and Carbon Sequestration - *Hon. Jon McKinney*, West Virginia
* Written Reports/Discussion
National Regulatory Research Institute - *Raj Barua*
Electric Power Research Institute - *Barbara Tyran*
** Consideration of Resolutions*

4:00 PM **Utility Business Model Panel**
A number of factors are putting stress on the prevailing utility business model. Loads are not growing at historical levels, and developments may keep growth low for some time. Examples are: growing penetration of energy efficiency, distributed consumer generation (such as solar panels,

back-up generators, micro-grids), demand response, more efficient appliances, better building codes. At the same time, utility costs are increasing: to replace aging infrastructure, modernize and secure the grid, environmental compliance. Finally, increasing utility rates and a desire for a back up to utility service may make it more attractive for consumers (even at the residential level) to "self-generate." This session will explore answers to the following questions.

• Does this situation create "death spiral" issues for utilities?
• Is utility distribution still a monopoly service? If not, should it be deregulated? What would that look like?
• Is the $/kWh method of pricing dead? Should consumers begin paying more fixed costs in fixed charges? Or, are standby charges and decoupling enough?
• Are there different issues for restructured vs. un-restructured states?
• Is rate of return regulation still viable? Are there alternatives, such as price cap regulation?
• What is/should be the utility role in providing service through DG or micro-grids? What can electric utilities learn from telecommunications?
• How are the services & rates to customers that don't participate in DG or micro-grids treated?

Moderator Hon. Susan Ackerman - Chair, Oregon

Panelists Hon. Michael Peevey - Chair, California PUC
Dr. Jan Beecher - Director, Institute of Public Utilities, Michigan State University
Chuck Goldman, Lawrence Berkeley National Labs
John Howat, National Consumer Law Center

9:00 AM-5:15 PM **Committee on Energy Resources and the Environment**

9:00 AM **Carbon Tax vs Cap and Trade**

Joint session with the Committees on Electricity and Gas

See agenda as listed for the Committee on Electricity

10:30 AM **Addressing Climate Mitigation and Adaption:National Climate Assessment**

Joint session with the Committees on Electricity, Critical Infrastructure and Water

Human induced climate change impacts people's health, livelihoods and the ecosystems that sustain them. The 2013 National Climate Assessment Report takes an in-depth look at the local and regional impacts of climate change, and seeks to gather the scientific data decision makers need to proactively mitigate additional harm, manage the risks of continued emissions and adapt to irreversible changes.

Moderator Hon. Jeanne Fox - Commissioner, New Jersey Board of Public Utilities

Panelists Paul Fleming - Manager of the Climate and Sustainability Group, Seattle Public Utilities
Dr. Susan Tierney - Managing Principal, Analysis Group

1:00 PM **Microgrids: Ready or Not, Here They Come!**

Joint session with the Committee on Critical Infrastructure

A microgrid is a grouping of generation, energy storage and load which is linked to the main electric grid, but with the distinguishing feature of having the capacity to separate and isolate itself from the main electric grid. This islanding capacity brings reliability and energy assurance to areas within the microgrid - a marked benefit for these customers, but what are the benefits and impacts to ratepayers outside of the borders who contributed to the microgrid? One of the primary builders of microgrids today is the Department of Defense, the biggest single energy user in the U.S., which must source 25 percent of its power from renewable energy by 2025. Additionally, coastal cities impacted by recent storms are exploring renewable energy microgrids to maintain power during catastrophic events. What are the challenges of building, operating and maintaining these microgrids from an investor and ratepayer equity point of view? How can the two sides work together? In this session, panelists will explore the interaction of stakeholders and ratepayers in the growth of microgrids and discuss the societal view of microgrid integration as a holistic benefit for the consumer.

Hon. James Gardner - Vice Chairman, Kentucky Public Service Commission

2:30 PM **Gas Leakage:Reducing GHG Emissions from Existing Facilities**

Joint session with the Committee on Gas

See agenda as listed for the Committee on Gas

4:00 PM **Tour of Xcel Energy Trading Floor**

Members of the ERE Committee have been invited to an off-site tour of the Xcel Energy trading center. Information will be sent separately to Committee members with details.

4:00 PM **Utility Business Model Panel**

Joint session with the Committee on Electricity

See agenda as listed for the Committee on Electricity

9:00 AM-5:15 PM **Committee on Gas**

9:00 AM **Carbon Tax vs Cap and Trade**

Joint session with the Committees on Electricity and Energy Resources and the Environment

See agenda as listed for the Committee on Electricity

10:30 AM **U.S. Carbon Policy - Time for a Change?**

Speaker Dr. William Happer - Professor, Department of Physics , Princeton University

1:00 PM **Business Meeting**

2:30 PM **Gas Leakage:Reducing GHG Emissions from Existing Facilities**

Joint session with the Committee on Energy Resources and the Environment

Hon. Julie Fedorchak - Commissioner, North Dakota
Hon. Robert Kenney - Commissioner , Missouri

4:00 PM **The Future of Fuel Supply**

9:00 AM-5:15 PM **Committee on Telecommunications**

9:00 AM **Impacts of USF & ICC Reform on Broadband Investment**

Hon. Travis Kavulla - Commissioner, Montana

10:15 AM **Networking Break**

10:30 AM **Can we Kiss Our Telephone Number Goodbye in an IP World?**

Learn about the drivers for change. What does VoIP, wireless LTE, machine-2-machine communications and other technology changes mean to the future requirements for the availability and management of telephone numbers? Are there better alternatives to the North America Numbering Plan? What is the role of State regulators in managing the availability and conservation of telephone numbers or their substitute in the future?

Moderator Hon. Betty Anne Kane - Commissioner, District of Columbia

Panelists Henning Schulzrinne - Chief Technology Officer, Federal Communications Commission
Tom McGarry - Vice President, Advanced Technology Group, Neustar Labs
Daniel Berninger - Founder, Voice Communication Exchange Committee
Brendan Kasper - Senior Regulatory Counsel, Vonage
Dave Malfara - President, ETC Group

1:00 PM **Business Meeting Part 1**

Hon. John Burke - Chair, Committee on Telecommunications, Vermont

2:30 PM **Business Meeting Part 2**

9:00 AM-5:15 PM **Committee/Staff Subcommittee on Water**

10:30 AM **Best Practices for Small Systems**

Small water and wastewater companies present many challenges, many driven by their lack of size and economies of scale. Recommendations for Best Practices for Small Systems will be presented and discussed.

10:30 AM **National Climate Assessment, Climate Change Adaptation and Mitigation**

Speakers to include energy and water system experts and will also address adaption and mitigation. This is a joint session with Electricity, Energy Resources and the Environment and Critical Infrastructure.

1:00 PM **Water Quality Trading**

An overview of Water Quality Trading will be presented with a discussion of a NARUC Water Committee position.

2:30 PM **Business Meeting and Updates**

Business of the Water Committee will be presented along with any proposed Resolutions. Updates from the Water Research Foundation, NAWC, NARUC's Rate School.

10:15 AM-10:30 AM *Networking Break*
10:30 AM-5:15 PM **Committee on Consumer Affairs**
10:30 AM-5:15 PM **Committee on Critical Infrastructure**

1:00 PM **Microgrids: Ready or Not, Here They Come!**
Joint session with the Committee on Energy Resources and the Environment
See the agenda as listed for the Committee on Energy Resources and the Environment.

11:45 AM-1:15 PM *Commissioner Only Luncheon*
11:45 AM-1:15 PM *Commissioners Emeritus Luncheon (former Commissioners only)*
2:15 PM-2:30 PM *Networking Break*
3:45 PM-4:00 PM *Networking Break*

Wednesday, July 24

8:00 AM-8:45 AM **Committee Chairs and President Breakfast (Invitees Only)** Presidential Suite

This meeting is definite. Committee Chairs please mark your calendar.

9:00 AM-10:15 AM **Committee on Electricity**

9:00 AM **Natural Gas: The Key to an American Economic Renaissance?**
Joint session with the Committees on Energy Resources and the Environment, Gas and Water
See the agenda as listed for the Committee on Energy Resources and the Environment

9:00 AM-10:15 AM **Committee on Energy Resources and the Environment**

9:00 AM **Natural Gas: The Key to an American Economic Renaissance?**
Joint session with the Committees on Electricity, Gas and Water
This session will discuss the emergence of natural gas and whether it can be a sustainable source for the U.S. economy for the foreseeable future. How will the growth of U.S. natural gas impact world markets? Will exporting natural gas negatively affect prices for domestic consumer goods? With the nation's electricity sector relying more on natural gas, what will that mean for the price of gas, particularly if utilities are competing in a global economy?

Hon. Barry Smitherman - Chair, Texas Railroad Commission

9:00 AM-10:15 AM **Committee on Gas**

9:00 AM **Natural Gas: The Key to an American Economic Renaissance?**
Joint session with the Committees on Energy Resources and the Environment, Electricity, and Water
See the agenda as listed for the Committee on Energy Resources and the Environment

9:00 AM-10:15 AM **Committee on Water**

9:00 AM **Natural Gas: The Key to an American Economic Renaissance?**
Joint session with the Committees on Energy Resources and the Environment, Electricity, and Gas
See the agenda as listed for the Committee on Energy Resources and the Environment

9:00 AM-11:45 PM **Committee on Telecommunications**

9:15 AM **Federalism & Telecommunications Task Force Update - Part 1**
Presentation by Task Force Members on the draft white paper.
Hon. Orji Isiogu - Commissioner, Michigan

10:30 AM **Networking break**

10:45 AM **Federalism & Telecommunications Task Force Update - Part II**
Comments from Commissioners, staff and stakeholders.
Hon. Orji Isiogu - Commissioner, Michigan

11:45 AM **Adjourn**

10:15 AM-10:30 AM *Networking Break*

10:15 AM-12:00 PM **FERC/NARUC Forum on Reliability and the Environment**

12:00 PM-4:00 PM **Board of Directors Meeting**

12:30 PM-5:00 PM **Cyber Security Summit : Triumphs and Tarpits at the State Commissions (closed)**

12:00 PM **Triumphs and Tarpits at the State Commissions Workshop**
Since December 2012, NARUC has been facilitating trainings and strategy development on cybersecurity for Commissions across the country. In this half-day workshop, NARUC will re-convene States who have been trained (and others who are interested in participating) to follow up and share experiences, lessons-learned, and best practices about how Commissions are taking on the issue of cybersecurity.
Closed session, State Commissions and invited guests only.