Welcome to Baltimore!

It's been five years since we last convened an Annual Meeting here in ‘Charm City,’ as Baltimore is known. We certainly hope that you’ll be charmed by the outstanding slate of general sessions and concurrent panels that have been meticulously planned for you.

As many of you have noticed, our Annual Meeting is now the Annual Meeting and Education Conference, to better reflect NARUC’s goal of providing meeting content that truly educates our members and stakeholders. Utility regulation is never easy and serving the public interest rarely merits public praise. However, we understand and appreciate the work undertaken by our state regulators and our meetings seek to address the issues that matter most to these public servants.

During this conference, we conclude this year’s presidential theme: Infrastructure, Innovation, and Investment. We thank Immediate-Past President Robert Powelson for his steadfast leadership and support and congratulate him on his current FERC appointment. At this meeting, we will formally install our new NARUC President—Tuesday’s Installation Luncheon will be one of the most memorable highlights of the meeting. Along with the installation speech, we will present NARUC’s Innovation Awards to recognize achievements from industry and regulators.

We are also grateful that the Mayor of Baltimore, the Honorable Catherine Pugh, made time in her schedule to deliver welcome remarks.

We would be remiss in not acknowledging the tremendous effort on the part of our committees and subcommittees, along with NARUC staff, who have worked diligently to assemble concurrent and general sessions that are relevant and educational.

Please enjoy your time in Baltimore and we look forward to engaging with you during the meeting!
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General Information

Hotel Information
Hilton Baltimore
401 West Pratt Street
Baltimore, Maryland 21201
443-573-8700

Overflow Hotel
Baltimore Marriott Inner Harbor at Camden Yards
110 South Eutaw Street
Baltimore, Maryland 21201
410-962-0202

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.–3:00 p.m.
- Wednesday 8:30 a.m.–11:00 a.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 – NASUCA/Public Interest/Consumer Groups/Federal/State Agencies (nonmembers)
- Purple – Media

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

Program Printing
This program was printed using information as of October 20. Some information may have changed by the time the meeting occurs.

The printing of this program was sponsored in part by

[NEI logo]

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

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

Twitter Users
Use the #NARUCAnnual17 hashtag when tweeting from our meeting. Follow us at http://twitter.com/naruc for the latest updates.

Internet
The password for wifi is NARUC17A. Please stop by the Carahsoft and Oracle tables to thank them for keeping you connected.

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

Conference App
Be interactive and don’t miss out on the need-to-know information! Download the NARUC Annual Meeting Mobile App. Conveniently review everything you need to know about the Annual Meeting. Enhance your event experience by using the app to view the entire program, connect with other attendees, engage in panel sessions and polls, view speaker profiles, and more right at your fingertips! Stop by the NARUC Registration Help Desk or ask a NARUC staff member if you need assistance downloading the app.

Taping/Video Policy
Unless you receive prior approval from NARUC, only credentialed members of the press are allowed to tape or video NARUC sessions. This policy gives comfort to our speakers and protects NARUC from potential legal action. If you wish to tape or record any portion of the NARUC meeting, please contact Director of Communications, Regina L. Davis, at rdavis@naruc.org for permission.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>7:30 a.m. – 9:00 a.m.</td>
<td>Continental Breakfast</td>
<td>Key Foyer</td>
<td></td>
</tr>
<tr>
<td>7:30 a.m. – 9:00 a.m.</td>
<td>NRRI Board of Directors Breakfast Meeting (closed meeting)</td>
<td>Blake (2nd Floor)</td>
<td>11</td>
</tr>
<tr>
<td>8:00 a.m. – 6:30 p.m.</td>
<td>Registration Open</td>
<td>Key Foyer</td>
<td></td>
</tr>
<tr>
<td>9:00 a.m. – 11:45 a.m.</td>
<td>Subcommittee on Supplier and Workforce Diversity</td>
<td>Key 6</td>
<td>11</td>
</tr>
<tr>
<td>9:00 a.m. – 11:45 a.m.</td>
<td>Task Force on Military Workforce Development</td>
<td>Key 12</td>
<td>14</td>
</tr>
<tr>
<td>9:00 a.m. – 11:45 a.m.</td>
<td>Staff Subcommittee on Energy Resources and the Environment</td>
<td>Key 8</td>
<td>11</td>
</tr>
<tr>
<td>9:00 a.m. – 11:45 a.m.</td>
<td>Staff Subcommittee on Water</td>
<td>Key 8</td>
<td>12</td>
</tr>
<tr>
<td>9:00 a.m. – 11:45 a.m.</td>
<td>Staff Subcommittee on Consumer Affairs</td>
<td>Key 9</td>
<td>14</td>
</tr>
<tr>
<td>9:00 a.m. – 4:00 p.m.</td>
<td>Staff Subcommittee on Telecommunications</td>
<td>Holiday 2</td>
<td>13</td>
</tr>
<tr>
<td>9:00 a.m. – 5:00 p.m.</td>
<td>Staff Subcommittee on Electricity</td>
<td>Key 8</td>
<td>12</td>
</tr>
<tr>
<td>9:00 a.m. – 5:00 p.m.</td>
<td>Joint With Staff Subcommittees on Energy Resources and the Environment and Electric Reliability</td>
<td>Key 8</td>
<td></td>
</tr>
<tr>
<td>10:30 a.m. – 11:45 a.m.</td>
<td>Joint with Staff Subcommittee on Electric Reliability</td>
<td>Key 2</td>
<td></td>
</tr>
<tr>
<td>1:30 p.m. – 5:00 p.m.</td>
<td>Joint with Committee on Critical Infrastructure</td>
<td>Key 6</td>
<td></td>
</tr>
<tr>
<td>9:00 a.m. – 5:00 p.m.</td>
<td>Staff Subcommittee on Electric Reliability</td>
<td>Key 8</td>
<td>12</td>
</tr>
<tr>
<td>9:00 a.m. – 10:15 a.m.</td>
<td>Joint with Staff Subcommittees on Electricity and Energy Resources and the Environment</td>
<td>Key 8</td>
<td></td>
</tr>
<tr>
<td>10:30 a.m. – 11:45 a.m.</td>
<td>Joint with Staff Subcommittee on Electricity</td>
<td>Key 2</td>
<td></td>
</tr>
<tr>
<td>1:30 p.m. – 5:00 p.m.</td>
<td>Joint with Committee on Critical Infrastructure</td>
<td>Key 6</td>
<td></td>
</tr>
<tr>
<td>10:00 a.m. – 11:45 a.m.</td>
<td>Staff Subcommittee on Critical Infrastructure</td>
<td>Tilghman (3rd Floor)</td>
<td>14</td>
</tr>
<tr>
<td>10:30 a.m. – 11:45 a.m.</td>
<td>Washington Action (closed meeting)</td>
<td>Blake (2nd Floor)</td>
<td>14</td>
</tr>
<tr>
<td>10:30 a.m. – 1:00 p.m.</td>
<td>New Commissioner Forum and Luncheon (new Commissioners only)</td>
<td>Ruth</td>
<td>14</td>
</tr>
<tr>
<td>1:30 p.m. – 3:15 p.m.</td>
<td>Committee on Consumer Affairs</td>
<td>Key 2</td>
<td>16</td>
</tr>
<tr>
<td>1:30 p.m. – 3:30 p.m.</td>
<td>Staff Subcommittee on Executive Management (For Commission Staff Only)</td>
<td>Blake (2nd Floor)</td>
<td>17</td>
</tr>
<tr>
<td>1:30 p.m. – 5:00 p.m.</td>
<td>Committee on Critical Infrastructure</td>
<td>Key 6</td>
<td>16</td>
</tr>
<tr>
<td>1:30 p.m. – 5:00 p.m.</td>
<td>Task Force on Innovation</td>
<td>Key 8</td>
<td>17</td>
</tr>
<tr>
<td>2:30 p.m. – 5:00 p.m.</td>
<td>Committee on International Relations</td>
<td>Key 12</td>
<td>17</td>
</tr>
<tr>
<td>3:15 p.m. – 5:00 p.m.</td>
<td>Staff Subcommittee on Gas</td>
<td>Key 2</td>
<td>19</td>
</tr>
<tr>
<td>5:00 p.m. – 6:30 p.m.</td>
<td>Welcome Reception</td>
<td>Holiday 6</td>
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</tr>
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## Daily Schedule at a Glance
### MONDAY, NOVEMBER 13

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<thead>
<tr>
<th>Time</th>
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<th>Location</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 a.m. – 8:45 a.m.</td>
<td>OPSI Breakfast Meeting (invitees only)</td>
<td>Latrobe (1st Floor)</td>
<td>21</td>
</tr>
<tr>
<td>7:30 a.m. – 8:45 a.m.</td>
<td>Board of Directors Breakfast Meeting</td>
<td>Johnson (1st Floor)</td>
<td>21</td>
</tr>
<tr>
<td>7:30 a.m. – 9:00 a.m.</td>
<td>Continental Breakfast</td>
<td>Key Foyer</td>
<td></td>
</tr>
<tr>
<td>8:00 a.m. – 5:00 p.m.</td>
<td>Registration Open</td>
<td>Key Foyer</td>
<td></td>
</tr>
<tr>
<td>9:00 a.m. – 10:15 a.m.</td>
<td>Committee on Consumer Affairs Joint session with Task Force on Natural Gas Access and Expansion and Committee on Gas</td>
<td>Key 6</td>
<td>25</td>
</tr>
<tr>
<td>9:00 a.m. – 10:15 a.m.</td>
<td>Task Force on Natural Gas Access and Expansion Joint session with Committee on Gas and Committee on Consumer Affairs</td>
<td>Key 6</td>
<td>25</td>
</tr>
<tr>
<td>9:00 a.m. – 11:45 a.m.</td>
<td>Committee on Telecommunications</td>
<td>Holiday 2</td>
<td>21</td>
</tr>
<tr>
<td>9:00 a.m. – 11:45 a.m.</td>
<td>Committee on Energy Resources and the Environment</td>
<td>Key 12</td>
<td>21</td>
</tr>
<tr>
<td>9:00 a.m. – 11:45 a.m.</td>
<td>Committee on Electricity</td>
<td>Key 2</td>
<td>23</td>
</tr>
<tr>
<td>9:00 a.m. – 11:45 a.m.</td>
<td>Committee on Gas</td>
<td>Key 6</td>
<td>23</td>
</tr>
<tr>
<td>9:00 a.m. – 11:45 a.m.</td>
<td>Committee on Water</td>
<td>Key 9</td>
<td>25</td>
</tr>
<tr>
<td>9:00 a.m. – 11:45 a.m.</td>
<td>Staff Subcommittee on Law</td>
<td>Chase (3rd Floor)</td>
<td>26</td>
</tr>
<tr>
<td>11:45 a.m. – 1:15 p.m.</td>
<td>Regulators Luncheon (Commissioners, Commission Staff and Commissioners Emeritus)</td>
<td>Key 8</td>
<td>26</td>
</tr>
<tr>
<td>1:30 p.m. – 3:15 p.m.</td>
<td>Opening General Session Featuring Officer Elections and Terry Barnich Award</td>
<td>Holiday Ballroom</td>
<td>27</td>
</tr>
<tr>
<td>3:15 p.m. – 3:45 p.m.</td>
<td>Networking Break</td>
<td>Holiday Foyer</td>
<td></td>
</tr>
<tr>
<td>3:45 p.m. – 4:45 p.m.</td>
<td>General Session</td>
<td>Holiday Ballroom</td>
<td>28</td>
</tr>
<tr>
<td>5:00 p.m. – 6:00 p.m.</td>
<td>MACRUC (Invitees Only)</td>
<td>Poe (2nd Floor)</td>
<td>28</td>
</tr>
<tr>
<td>5:00 p.m. – 6:00 p.m.</td>
<td>NECPUC (Invitees Only)</td>
<td>Johnson (1st Floor)</td>
<td>28</td>
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<tr>
<td>5:00 p.m. – 6:00 p.m.</td>
<td>MARC (Invitees Only)</td>
<td>Ruth (1st Floor)</td>
<td>28</td>
</tr>
<tr>
<td>5:00 p.m. – 6:00 p.m.</td>
<td>SEARUC (Invitees Only)</td>
<td>Paca (3rd Floor)</td>
<td>28</td>
</tr>
<tr>
<td>5:00 p.m. – 6:00 p.m.</td>
<td>Western (Invitees Only)</td>
<td>Latrobe (1st Floor)</td>
<td>28</td>
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</tbody>
</table>
### TUESDAY, NOVEMBER 14

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>7:30 a.m. – 9:00 a.m.</td>
<td>Continental Breakfast</td>
<td>Key Foyer</td>
<td></td>
</tr>
<tr>
<td>8:00 a.m. – 3:00 p.m.</td>
<td>Registration Open</td>
<td>Key Foyer</td>
<td></td>
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<tr>
<td>8:30 a.m. – 10:45 a.m.</td>
<td>General Session</td>
<td>Holiday Ballroom</td>
<td>31</td>
</tr>
<tr>
<td>9:30 a.m. – 9:45 a.m.</td>
<td>Networking Break</td>
<td>Key Foyer</td>
<td></td>
</tr>
<tr>
<td>10:45 a.m. – 11:00 a.m.</td>
<td>Networking Break</td>
<td>Holiday Foyer</td>
<td></td>
</tr>
<tr>
<td>11:00 a.m. – 12:00 p.m.</td>
<td>Concurrent Sessions Section A</td>
<td>Key</td>
<td>33</td>
</tr>
<tr>
<td>12:00 p.m. – 1:15 p.m.</td>
<td>Annual Officer Installation Luncheon and Innovation Awards</td>
<td>Holiday Ballroom</td>
<td>34</td>
</tr>
<tr>
<td>1:45 p.m. – 2:45 p.m.</td>
<td>Concurrent Sessions Section B</td>
<td>Key</td>
<td>36</td>
</tr>
<tr>
<td>3:00 p.m. – 4:30 p.m.</td>
<td>NARUC Research Lab MegaModel Mini Demo</td>
<td>Ruth</td>
<td>38</td>
</tr>
<tr>
<td>3:00 p.m. – 4:30 p.m.</td>
<td>NRRI Colloquium</td>
<td>Poe (2nd Floor)</td>
<td>38</td>
</tr>
<tr>
<td>3:00 p.m. – 4:30 p.m.</td>
<td>Board of Directors Meeting</td>
<td>Johnson (1st Floor)</td>
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### WEDNESDAY, NOVEMBER 15

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<tbody>
<tr>
<td>7:30 a.m. – 9:00 a.m.</td>
<td>Continental Breakfast</td>
<td>Key Foyer</td>
<td></td>
</tr>
<tr>
<td>8:30 a.m. – 11:00 a.m.</td>
<td>Registration Open</td>
<td>Key Foyer</td>
<td></td>
</tr>
<tr>
<td>9:00 a.m. – 10:15 a.m.</td>
<td>Concurrent Sessions Section C</td>
<td>Key</td>
<td>39</td>
</tr>
<tr>
<td>10:15 a.m. – 10:30 a.m.</td>
<td>Networking Break</td>
<td>Holiday Foyer</td>
<td></td>
</tr>
<tr>
<td>10:30 a.m. – 11:45 a.m.</td>
<td>Closing General Session</td>
<td>Holiday Ballroom</td>
<td>42</td>
</tr>
</tbody>
</table>
Please Join NARUC’s Committee on International Relations in Honoring the 2017 Recipient of the Terry Barnich Award:

Andreas D. Thanos

Gas Policy Specialist
Massachusetts Department of Public Utilities

Andreas Thanos has played a vital role in NARUC’s international efforts for more than a decade, mentoring and collaborating with regulators around the world. His service to the cause of shared learning across the international regulatory community has made him a role model for his colleagues and a thought leader on emerging issues like cybersecurity.

A staffer at the Massachusetts Department of Public Utilities since 1993, Andreas has brought his expertise and dedication to bear on projects in Europe, Latin America and elsewhere. His efforts include assisting regulators in Kosovo to improve communications among regulators, consumers and government bodies as well as detailing how gas utilities forecast demand and acquire supply to meet customer demand with Albanian and Armenian regulators.

In Mexico City, Andreas engaged with colleagues in their efforts on cybersecurity by detailing how U.S. commissions are addressing the challenging topic. In Hungary, he advised regulators working on compliance to the EU directives on gas markets on balancing processes used in U.S. markets.

Andreas is now advising the World Gas Conference 2018 “Fueling the Future.” He is supporting the conference on substantive materials and speaking and networking opportunities to showcase how U.S. regulatory experiences can be helpful to the international community.

In his role as a Gas Policy Specialist at the Massachusetts DPU, Andreas analyzes U.S. policies on natural gas and serves as a team leader on establishing cybersecurity standards for utilities under DPU jurisdiction. Beyond his international efforts, Andreas serves as chair of the NARUC Staff Subcommittee on Gas and is a member of the Advisory Council to the North American Energy Standards Board.

About the Terry Barnich Award

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

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

### Leadership Level

![Landis Gyr Logo](image)

### Premier Level

![NRECA Logo](image)  
**NRECA**  
*America’s Electric Cooperatives*

![Itron Logo](image)  
**Itron**

![API Logo](image)  
**API**  
*American Petroleum Institute*

### Executive Level

![Carahsoft Logo](image)  
**Carahsoft**

![Salesforce Logo](image)  
**Salesforce**

![Sevenpoints Logo](image)  
**Sevenpoints**

![Oracle Logo](image)  
**Oracle**

**Utilities**

### Platinum Level

![Direct Energy Logo](image)  
**Direct Energy**
Thanks to Our Sponsors

Gold Level

nest

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AMPJACK

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Thermostat Recycling Corporation™

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Silver Level

NEI

NUCLEAR ENERGY INSTITUTE

Crystal Level

AGA

American Gas Association
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- SEFA

**Blue Level**

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  - for a changing world
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**Special Exhibitors**

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- Office of Fossil Energy

**Media Sponsors**

- PUBLIC UTILITIES FORTNIGHTLY
- E9
- RTO Insider
America’s electric cooperatives are ushering in the Consumer-Centric Utility future, embracing innovation and empowering consumers for the benefit of the system as a whole.
Sunday, November 12

Registration Open
8:00 a.m. – 6:30 p.m. • Key Foyer

NRRI Board of Directors Breakfast Meeting (closed meeting)
7:30 a.m. – 9:00 a.m. • Blake Room

Subcommittee on Supplier and Workforce Diversity
9:00 a.m. – 11:45 a.m. • Key 6

9:00 a.m. - 9:05 a.m. Welcome and Opening Remarks
Hon. Sherina Maye Edwards-SWD Chairwoman, Illinois

9:05 a.m. - 10:05 a.m. Panel: Hispanics in Energy
Moderator: Hon. Sadzi Oliva, Illinois
Panelists: Elba Aranda-Suh, Executive Director, National Latino Education Institute (NLEI)
Mario E. Dominguez, Associate, Rooney Rippie & Ratnaswamy, LLP
Martin Montes, Director of Regulatory Affairs, ComEd
Jose L. Perez, Chairman & CEO, Hispanics In Energy

10:05 a.m. - 11:05 a.m. Roundtable: Reflecting on the Past; Strategizing for the Future
Speakers: Hon. Ronald A. Brisé, Florida
Hon. Sherina Maye Edwards, Illinois
Nikki Hall, Director of Regulatory Strategy & Services, Pepco Holdings Inc.

11:05 a.m. - 11:20 a.m. Update: Workforce Diversity Toolkit
Laurie Dowling, Executive Director, National Utilities Diversity Council

11:20 a.m. - 11:45 a.m. Subcommittee Business and Closing Remarks

Staff Subcommittee on Energy Resources and the Environment
9:00 a.m. – 11:45 a.m. • Key 8

9:00 a.m. – 10:15 a.m. Joint with Staff Subcommittees on Electricity and Electric Reliability
Next Level Demand Response
Moderator: Wally Nixon, Commissioner’s Legal Advisor, Arkansas Public Service Commission
Panelists: Robert Dostis, Vice President, Stakeholder Relations and New Products, Green Mountain Power
Ted Ko, Director of Policy, Stem
Virginia Lacy, Principal, Rocky Mountain Institute
Damei Mahama, Manager, ConEdison
Kent Walter, Manager of Customer Technology, Arizona Public Service

10:30 a.m. – 11:45 a.m. Joint with Staff Subcommittee on Water
Voluntary Climate Action Practices: Implications for Utilities and Commissions
Moderator: Jon Kucskar, Senior Advisor to the Maryland Public Service Commission
Sunday, November 12

Panelists:
James Bradbury, Mitigation Program Director, Georgetown Climate Center
Adella Crozier, Director of Regulatory Affairs, DTE Energy
Sue Gander, Director, Environment, Energy & Transportation Division, National Governors Association
Alice Kennedy, Deputy Commissioner, Division of Green, Healthy and Sustainable Homes, City of Baltimore

Staff Subcommittee on Water
9:00 a.m. – 11:45 a.m. • Key 8

10:30 a.m. – 11:45 a.m. Joint with Staff Subcommittee on Energy Resources and the Environment
Voluntary Climate Action Practices: Implications for Utilities and Commissions
(See page 11.)

Staff Subcommittee on Electricity
9:00 a.m. – 5:00 p.m. • Key 8 / Key 2 / Key 6

9:00 a.m. – 10:15 a.m. Joint With Staff Subcommittees on Energy Resources and the Environment and Electric Reliability — Key 8
Next Level Demand Response
(See page 11.)

10:15 a.m. – 10:30 a.m. Break

10:30 a.m. – 11:45 a.m. Joint with Staff Subcommittee on Electric Reliability — Key 2
Believers and Skeptics: A Debate About Distributed Energy Integration on the Distribution Grid
Moderator: Kimberly Jones, Chair, NARUC Staff Subcommittee on Electricity and Director of Clerk and IT Services with the North Carolina Utilities Commission
Panelists: John Farber, former staff with the Delaware Public Service Commission
Mike Hyland, American Public Power Association
Bob Schulte, Schulte Associates LLC, former utility executive
Chris Villarreal, Energy Consultant and former Chair of NARUC’s Rate Design Staff Subcommittee, former staff with the California and Minnesota Commissions

1:30 p.m. – 5:00 p.m. Joint with Committee on Critical Infrastructure — Key 6
(See page 16.)

Staff Subcommittee on Electric Reliability
9:00 a.m. – 5:00 p.m. • Key 8 / Key 2 / Key 6

9:00 a.m. – 10:15 a.m. Joint with Staff Subcommittees on Electricity and Energy Resources and the Environment — Key 8
Next Level Demand Response
(See page 11.)
Sunday, November 12

10:30 a.m. – 11:45 a.m. Joint with Staff Subcommittee on Electricity — Key 2
Believers and Skeptics: A Debate About Distributed Energy Integration on the Distribution Grid
(See page 12.)

1:30 p.m. – 5:00 p.m. Joint with Committee on Critical Infrastructure — Key 6
(See page 16.)

Staff Subcommittee on Telecommunications
9:00 a.m. – 4:00 p.m. • Holiday 2

9:00 a.m. – 10:15 a.m. Mobile Broadband, Wireless Propagation & the 706 NPRM
Moderator: Lynn Notarianni, Colorado
Panelists: Joseph Witmer, Pennsylvania
Adam Nelson, Senior Consultant, Federal Engineering, Inc.

10:15 a.m. – 10:30 a.m. Networking Break

10:30 a.m. – 11:45 a.m. Panel V: Wireless Resiliency
Moderator: Joseph Witmer, Pennsylvania
Panelists: Hon. Johann Clendenin, USVI
Ben Aaron, Director, State & Regulatory Affairs, CTIA
Alvaro Pilar, Chief Executive Officer ViYA
Brent Struthers, Senior Strategist, State Government Relations, Neustar

1:00 p.m. – 2:00 p.m. Panel VI: The State of FirstNet
Moderator: Cullen Robbins, Nebraska
Panelists: Don Brittingham, Vice President Public Safety Policy, Verizon
AT&T (Invited)
Rivada Networks (Invited)

2:00 p.m. – 2:15 p.m. Networking Break

2:15 p.m. – 3:15 p.m. Panel VII: Contributions
Moderator: Hon. Chris Nelson, South Dakota
Panelists: Labros Pilalis, Pennsylvania
Rick Cimerman, VP External & State Affairs, NCTA
Joe Gillan, Consultant, Gillan Associates
Mike Romano, Senior Vice President of Policy, NTCA
Allison Ellis, Sr. VP Regulatory Affairs, Frontier Communications (Invited)

3:15 p.m. – 4:00 p.m. Resolutions Discussion – Staff Final Disposition
Staff Subcommittee on Consumer Affairs
9:00 a.m. – 11:45 a.m. • Key 9

9:00 a.m. – 10:15 a.m. How the Sun is Shining in Low Income Communities
Moderator: Charlene Ketchum, Policy Advisor & Legal Counsel to Commissioner Maida Coleman, Missouri PSC
Panelists: Sandra Mattavous Frye, Esq., People’s Counsel, DC Office of the People’s Counsel
         Alison Kling, Project Specialist, Demonstration & Pilot Projects, Con Edison
         Taresa Lawrence, Deputy Director, Energy Administration, Department of Energy & Environment
         Melanie Santiago-Mosier, Program Director, Low-income Solar Access, Vote Solar
         Ingrid Schwingler, Policy & Regulatory Coordinator, GRID Alternatives

10:15 a.m. – 10:30 a.m. Networking Break

10:30 a.m. – 11:45 a.m. Is Net Metering Dead?
Moderator: Phil Boyle, Consumer Services Manager, Oregon Public Utility Commission
Panelists: Sean Gallagher, VP of State Affairs, SEIA
         Ted Kelly, Assistant Counsel, New York Department of Public Service
         Bill Malcolm, Senior Legislative Representative, AARP
         Nathan Phelps, Program Manager DG Regulatory Policy, Vote Solar
         Joelle Steward, Director of Rates & Regulatory Affairs, Rocky Mountain Power

Task Force on Military Workforce Development
9:00 a.m. – 11:45 a.m. • Key 12

9:00 a.m. – 11:45 a.m. Helping Veterans, Helping Ourselves — Part 2
Moderator: Hon. Judith Williams Jagdmann, Virginia
Panelists: Jim Kibler, President, Virginia Natural Gas, a subsidiary of Southern Company Gas
          Michelle Rostom, Director of Workforce Development, National Rural Electric Cooperative Association

Staff Subcommittee on Critical Infrastructure
10:00 a.m. – 11:45 a.m. • Tilghman

The Subcommitee will meet in closed session. The meeting will be led by Chair Lynn Costantini (NJ) and Sharon Thomas (NARUC).

New Commissioner Forum and Luncheon (new Commissioners only)
10:30 a.m. – 1:00 p.m. • Ruth

Washington Action (closed meeting)
10:30 a.m. – 11:45 a.m. • Blake

Closed Meeting. Agenda distributed at meeting.
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Sunday, November 12

Committee on Critical Infrastructure
1:30 p.m. – 5:00 p.m. • Key 6

1:30 p.m. – 1:45 p.m. Opening Remarks
Resolutions
Hon. Richard S. Mroz, New Jersey

1:45 p.m. – 2:15 p.m. Partner Updates
Presenters: Puesh M. Kumar, Director, Infrastructure Security and Energy Restoration, DOE
Joseph H. McClelland, Director, Office of Energy Infrastructure and Security, FERC

2:15 p.m. – 2:45 p.m. Enhancing Grid Resilience: Strategic Insights
Presenter: M. Granger Morgan, Distinguished Chair, Committee on Enhancing the Resiliency of the Nation’s Electric Power Transmission and Distribution System, National Academies of Sciences

2:45 p.m. – 2:55 p.m. Break

2:55 p.m. – 3:45 p.m. Toward Infrastructure Resilience: An Industry Perspective
Moderator: TBA
Panelists: Scott Aaronson, Executive Director, Security and Business Continuity, EEI
David Huff, Electrical Engineer, Office of Electric Reliability, FERC
Andrew Phillips, Director, Transmission, Distribution and Substations, EPRI

3:45 p.m. – 4:30 p.m. Resilience Priorities and Practices from the Field
Moderator: Hon. Sadzi Martha Oliva, Illinois
Panelists: Jamey Sample, Executive Director, Americas Advisory Services, Power and Utilities Cybersecurity Leader, Ernst & Young
TBA
TBA

4:30 p.m. – 5:00 p.m. Resilience Metrics and Monitoring
Presenters: Sue Gander, Director, Environment, Energy & Transportation Division, NGA
David Miller, Regulatory Sector Coordinator, EIS Council

Committee on Consumer Affairs
1:30 p.m. – 3:15 p.m. • Key 2

1:30 p.m. – 2:00 p.m. Business Meeting (closed session)

2:00 p.m. – 3:15 p.m. Not in My Backyard
Moderator: Colette Honorable, Reed Smith’s Energy and Natural Resources Group
Panelists: Rob Gramlich, President, Grid Strategies, LLC
Arturo Hernandez, Gibbs Pool and Turner, P.C.
Hon. Kimberly O’Guinn, Arkansas
Committee on International Relations
2:30 p.m. – 5:00 p.m. • Key 12

2:30 p.m. – 2:35 p.m. The Wide World of NARUC – Welcome and Introductions
Hon. David Danner, Chair, IRC, Washington UTC

2:35 p.m. – 2:40 p.m. Approval of minutes/resolutions
Hon. David Danner, Chair, IRC, Washington UTC

2:40 p.m. – 2:50 p.m. Remarks by Terry Barnich Award Winner
Moderator: Hon. David Danner, Chair, IRC, Washington UTC
Panelist: Andreas Thanos, Massachusetts DPU

2:50 p.m. – 3:45 p.m. Rural Electrification and Global Cooperation
Moderator: Hon. David Danner, Chair, IRC, Washington UTC
Panelist: Dan Waddle, Sr. Vice President, NRECA International

3:45 p.m. - 4:00 p.m. Networking Break

4:00 p.m. – 4:40 p.m. An Update from Mexico: Energy Reforms, WFER, NAFTA, and Other Matters
Moderator: Hon. David Danner, Chair, IRC, Washington UTC
Panelist: Hon. Guillermo García Alcocer, Chairman, Energy Regulatory Commission of Mexico

4:40 p.m. – 5:00 p.m. Report on NARUC International Programs
Erin Hammel, Director of International Programs, NARUC

Staff Subcommittee on Executive Management (For Commission Staff Only)
1:30 p.m. – 3:30 p.m. • Blake

1:30 p.m. – 3:30 p.m. Overview

Discussion items
• From Blue to Black Skies – Preparing for Large-Scale and Long-Term Power Outages
• Protecting Information – Being Transparent versus Being Secure
• Operational Challenges – Roles and Responsibilities
• State Legislative Updates – What’s Hot and What’s Not

Roundtable
Future Meetings/Adjournment

Task Force on Innovation
1:30 p.m. – 5:00 p.m. • Key 8

1:30 p.m. – 2:00 p.m. The Importance of Innovation in the Energy Sector; Setting the Stage for the Future of Digital Utility Transformation
Presenter: Anda Ray, Senior Vice President, External Relations and Technical Resources, EPRI
The Leading Edge of Innovation

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Sunday, November 12

2:00 p.m. – 2:30 p.m.  Perspectives from Regulators and Consumer Advocates
Presenters: Hon. Lorraine Akiba, Hawaii
Hon. Kara Brighton, Wyoming
David Kolata, Executive Director, Citizens Utility Board

2:30 p.m. – 2:50 p.m.  Break & Networking

2:50 p.m. – 3:30 p.m.  Perspectives from Innovators
Presenters: Jiong Ma, Partner, Braemar Energy Ventures
Michael Polsky, Founder, President & CEO, Invenergy LLC
Aki Marceau, Hawaii Projects Deployment, Elemental Excelerator
TBA

3:30 p.m. – 5:00 p.m.  Roundtable Discussion & Roadmap
Presenters: All speakers from Innovation Session

Staff Subcommittee on Gas
3:15 p.m. – 5:00 p.m. • Key 2

3:15 p.m. – 3:45 p.m.  History and Understanding of R&D Funding for Natural Gas in the United States
Moderator: Andreas Thanos, Chair, Staff Subcommittee on Gas
Presenter: Ron Edelstein, Director, Regulatory and Government Relations, Gas Technology Institute

3:55 p.m. – 4:25 p.m.  Natural Gas Price Transparency in the Next Decade
Moderator: Andreas Thanos, Chair, Staff Subcommittee on Gas
Presenter: Jennifer Fordham, NACD Governance Fellow, Senior Vice President, Government Affairs, Natural Gas Supply Association

4:25 p.m. – 4:55 p.m.  Update on Liquefied Natural Gas Export Permitting and Office of Oil and Natural Gas Research & Development
Moderator: Andreas Thanos, Chair, Staff Subcommittee on Gas
Presenter: Amy Sweeney, Director, Division of Natural Gas Regulation, DOE Office of Oil and Natural Gas

Welcome Reception
5:00 p.m. – 6:30 p.m. • Holiday 6
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Monday, November 13

OPS1 Breakfast Meeting (invitees only)
7:00 a.m. – 8:45 a.m. • Latrobe

Board of Directors Breakfast Meeting
7:30 a.m. – 8:45 a.m. • Johnson

Registration Open
8:00 a.m. – 5:00 p.m. • Key Foyer

Committee on Telecommunications
9:00 a.m. – 11:45 a.m. • Holiday 2

9:00 a.m. – 10:15 a.m. Universally Affordable Broadband – What are the Barriers and How to Define Success
Moderator: Hon. Paul Kjellander, Idaho
Panelists: Benjamin Aron, Director, State Regulatory and External Affairs, CTIA-the Wireless Association
Joe Gillan, President, Gillan and Associates
Roy Lathrop, Senior Director, State Government Affairs, NCTA-The Internet and Television Association
Arthur Martinez, Vice President of State Govt. Relations, CenturyLink
Responders: Hon. Travis Kavulla, Montana
Hon. Sarah Freeman, Indiana

10:30 a.m - 11:30 a.m. On the Ground & On the Horizon: How to Bring Broadband to Remote America
Moderator: Hon. Crystal Rhoades, Nebraska
Panelists: Ryan Harkin, Microsoft
Christopher Murphy, Viasat
Mike Romano, Senior Vice President, Industry Affairs & Business Development, NTCA

11:30 a.m. – 11:45 a.m. Business Meeting

Committee on Energy Resources and the Environment
9:00 a.m. – 11:45 a.m. • Key 12

9:00 a.m. – 10:30 a.m. Is it Time for TOU rates?
Moderator: Hon. Andrew Place, Pennsylvania
Panelists: Ashley Brown, Executive Director, Harvard Electricity Policy Group
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Along with more than a dozen other organizations, SEIA developed Principles for the Evolution of Net Energy Metering and Rate Design, presenting a pathway for the future:

www.seia.org/futureem

Grid Modernization
SEIA is producing a series of Whitepapers on Grid Modernization, aiming to inform states on lessons learned and provide guidance for the grid of the future:

www.seia.org/gridmod

Promoting free and fair trade
SEIA is taking the lead to oppose Suniva’s Section 201 petition with the International Trade Commission, which could cause the industry to lose 80,000 jobs:

www.seia.org/trade

Learn more at www.seia.org
Monday, November 13

Rick Gilliam, Program Director, DG Regulatory Policy, Vote Solar
Marcel Hawiger, Staff Attorney, The Utility Reform Network
Douglas Jester, Principal, 5 Lakes Energy
Ellen Zuckerman, Senior Consultant, Schlegel & Associates

10:45 a.m. – 11:45 a.m. Business Meeting

Introductions: Hon. Nancy Lange, Minnesota, and Hon. Carla Peterman, California
Commissioner Roundtable: This roundtable will continue the TOU discussion started in ERE’s morning session. Committee Members will share the rate design changes being considered in their states and their response to the TOU panel discussion.
Resolutions
Research Updates: Ron Edelstein, GTI; Barbara Tyran, EPRI; and Tom Stanton, NRRI.
Mary Kilmarx Award

Committee on Electricity
9:00 a.m. – 11:45 a.m. • Key 2

9:00 a.m. – 10:00 a.m. Millennials and Boomers: Centuries Apart?
Moderator: Hon. John Rosales, Illinois
Panelists: Martin Burns, Director of Campaigns, AARP
Nathan Shannon, Deputy Director, Smart Energy Consumer Collaborative
Molly Bauch, Manager of Customer Utilities Practice, Accenture

10:00 a.m. – 10:30 a.m. Business Meeting

10:30 a.m. – 11:45 a.m. Federal-State Jurisdictional Tensions
Moderator: Hon. Edward Finley, North Carolina
Panelists: Tony Clark, former FERC Commissioner, Sr. Adviser with Wilkinson Barker Knauer LLP
Ari Peskoe, Harvard Law School’s Environmental Policy Initiative
Marc Spitzer, former FERC Commissioner, Partner with Steptoe & Johnson LLP

Committee on Gas
9:00 a.m. – 11:45 a.m. • Key 6

9:00 a.m. – 10:15 a.m. Joint session with Task Force on Natural Gas Access and Expansion and Committee on Consumer Affairs
Uncovering the Opportunities for Natural Gas Access and Expansion Initiatives
Moderators: Hon. John Coleman, Pennsylvania
Hon. Julie Fedorchak, North Dakota
Hon. Brandon Presley, Mississippi
Panelists: Hon. Nick Wagner, Iowa
Robert Beard, President and Chief Executive Officer, UGI Utilities Inc.
Monday, November 13

Michael German, President and Chief Executive Officer, Corning Natural Gas Corporation
Bill Senter, Division VP Rates and Regulatory Affairs, Atmos Energy
David Terry, Executive Director, National Association of State Energy Officials (NASEO)

10:30 a.m. – 10:55 a.m. Business Meeting
Gas Leadership Team:
Hon. Stan Wise, Georgia
Hon. Diane X. Burman, New York
Hon. Julie Fedorchak, N. Dakota

Agenda:
Hon. Robert F. Powelson, FERC
Vince Parisi, VP Finance and Regulatory Affairs, Columbia Gas of Ohio
Travis Fisher, Senior Advisor, Office of Electricity Delivery & Energy Reliability, US DOE

Gas Committee Updates Discussion
Other business as may come before the committee

10:55 a.m. – 11:45 a.m. Methane Emissions Management and the Natural Gas System
Moderators: Hon. Stan Wise, Georgia
Hon. Diane X. Burman, New York
Monday, November 13

Panelists: Susan Blevins, Climate Policy Planning Senior Advisor, ExxonMobil  
Deanna Haines, Director, Gas Engineering, Southern California Gas Co  
Ron Edelstein, Director, Regulatory and Government Relations, Gas Technology  
Institute  
Mark Brownstein, Vice President, Climate and Energy, Environmental Defense  
Fund

Committee on Consumer Affairs  
Key 6

9:00 a.m. – 10:15 a.m. Joint session with Task Force on Natural Gas Access and Expansion and Committee on Gas  
Uncovering the Opportunities for Natural Gas Access and Expansion  
Initiatives  
(See page 23.)

Task Force on Natural Gas Access and Expansion  
Key 6

9:00 a.m. – 10:15 a.m. Joint session with Committee on Gas and Committee on Consumer Affairs  
Uncovering the Opportunities for Natural Gas Access and Expansion  
Initiatives  
(See page 23.)

Committee on Water  
9:00 a.m. – 11:45 a.m. • Key 9

9:00 a.m. – 10:30 a.m. Getting to Unleaded: Challenges and Solutions in Facilitating the Removal  
of Lead Service Lines  
Moderator: Hon. Mary-Anna Holden, New Jersey  
Panelists: Stephen Genzer, Partner, Saul Ewing, LLP  
Jay L. Kooper, Vice President, General Counsel & Secretary, Middlesex Water  
Company  
Howard J. Woods, Jr., General Manager, Howard J. Woods & Associates, LLC

10:45 a.m. – 11:45 a.m. Business Meeting  
Items of Business of the Water Committee will be covered including discussion and action on  
Resolutions and approval of the minutes from the Summer Policy Summit. Additionally,  
updates from the various partners of the Water Committee will be given, including NAWC,  
NARUC, and NARUC’s Rate School. Members of the Committee will also have time to brief  
the Committee on activities of interest in their States.
Monday, November 13

Staff Subcommittee on Law
9:00 a.m. – 11:45 a.m. • Chase

Agenda to be distributed at meeting.

Regulators Luncheon (Commissioners, Commission Staff and Commissioners Emeritus)
11:45 a.m. – 1:15 p.m. • Key 8

Commissioners, Commission Staff, and Commissioners Emeritus are invited to participate in the Annual Regulators Luncheon (pre-registration required).

Attendees will assemble hygiene packages for The Baltimore Station (TBS), an innovative therapeutic residential treatment program supporting veterans and others who are transitioning through the cycle of poverty, addiction, and homelessness to self-sufficiency. Over the course of its 28-year history, TBS has maintained a positive reputation for providing high-quality services to homeless veterans.

Jim Kibler, President, Virginia Natural Gas, will explain programs they have implemented to hire U.S. military personnel.

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Monday, November 13

Opening General Session
Featuring Officer Elections and Terry Barnich Award
1:30 p.m. – 3:15 p.m. • Holiday Ballroom

Welcome to the NARUC 129th Annual Meeting and Education Conference

Opening by the Hon. Jack Betkoski, NARUC President, Connecticut

National Anthem, Nico Sarbanes

Welcome Remarks by The Hon. Catherine Pugh, Mayor, Baltimore

Deputy Secretary of Energy, The Hon. Dan Brouillette, will discuss the Staff Report to the Secretary on Electricity Markets and Reliability and the NOPR for the Grid Resiliency Pricing Rule.

Election of 2017-2018 Officers and Confirmation of Board Members

Elections facilitated by the Hon. Travis Kavulla, Montana

Nomination of NARUC President
Hon. Katie Dykes, Connecticut

Second Nomination of NARUC President
Hon. Thomas Forese, Arizona

Nomination of NARUC 1st Vice President
Hon. Mike Huebsch, Wisconsin

Second Nomination of NARUC 1st Vice President
Hon. Maida Coleman, Missouri

Nomination of NARUC 2nd Vice President
Hon. Lib Fleming, South Carolina

Second Nomination of NARUC 2nd Vice President
Hon. Dallas Winslow, Delaware

Presentation of the Terry Barnich Award
The Terry Barnich Award recognizes the ongoing commitment of NARUC members to furthering regulatory best practices around the globe. (See page 6 for details.)
Monday, November 13

Networking Break
3:15 p.m. – 3:45 p.m. • Holiday Foyer

General Session
3:45 p.m. – 4:45 p.m. • Holiday Ballroom

3:45 p.m. – 4:45 p.m. Shooting the Bull... What Regulators Need to Know to Understand Wall Street

This general session will be an engaging and edgy discussion with ‘Wall Street Insiders.’ Participants will share their insights and thoughts on what Wall Street really looks for when they are reviewing commission decisions and actions in the regulatory landscape. Attendees will learn valuable information on how commissioner and commission staff actions (and statements) may affect the financial health of the industry. Attendees also will learn how industry performance, financial trends, and regulatory initiatives are used in rating utilities. Discussion will also touch upon Wall Street assessments post recent hurricanes and tropical storms.

Moderator: Hon. Diane Burman, New York
Panelists: Joyolin Brown, VP & Senior Analyst, Duff & Phelps Investment Management
          Heike Doerr, Principal Analyst, S&P Global Market Intelligence
          Anthony Ianno, Managing Director, Morgan Stanley
          Greg Gordon, Senior Managing Director, ISI Group LLC
          Leslie Rich, Managing Director, Equity Analyst, JP Morgan Asset Management

Regional Meetings (invitees only)
5:00 p.m. – 6:00 p.m.

MACRUC • Poe
NECPUC • Johnson
MARC • Ruth
SEARUC • Paca
Western • Latrobe

Board of Directors Dinner (Board Members Only)
7:00 – 9:30 p.m. • Designated Hitters Room at Camden Yards
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Registration Open
8:00 a.m. – 3:00 p.m. • Key Foyer

General Session
8:30 a.m. – 10:45 a.m. • Holiday Ballroom

8:30 a.m. – 10:45 a.m.  **Mother Nature – The Ultimate Disrupter!**

The utilities industry has been facing disruptors coming from within the industry for many years now. We have talked about new business models and ways to increase demand and create new customers/revenue streams, but are we prepared for the disruptions to the industry from a force indifferent to the very existence of the industry? Recently, three major hurricanes have had severe impacts on the energy, water, gas, and telecommunications sectors. Some areas with total destruction are looking at starting from scratch. This session will feature a regulator, consumer advocate, and high-level representatives from the electricity, gas, water, and telecommunications industries.

During this timely session, attendees will:
- Understand how utilities were prepared for this kind of disruption.
- Learn how utilities will change their preparation for future natural disasters.
- Identify the role of the regulator in these circumstances—before, during, and after.
- Discuss expectations of consumers.

**Moderator:** Hon. Ron Brisé, Florida

**Participants:**
- Stephanie Brand, Director, NJ Division of Rate Counsel
- Calvin Butler, Jr., CEO, Baltimore Gas & Electric
- Joy Ditto, President and CEO, Utilities Technology Council
- Christopher Franklin, President and CEO, Aqua America
- Pierce Norton, CEO of OneGas and AGA Board chairman

**Remarks by:** M. Granger Morgan, the Hamerschlag University Professor of Engineering at Carnegie Mellon University. He holds appointments in three academic units: the Department of Engineering and Public Policy; the Department of Electrical and Computer Engineering; and the H. John Heinz III College. He currently chairs the Committee on Enhancing the Resilience of the Nation’s Electric Power Transmission and Distribution System.

9:30 a.m. – 9:45 a.m.  **Networking Break • Holiday Foyer**

9:45 a.m. – 10:45 a.m.  **Mother Nature – The Ultimate Disrupter! Continued**

**Networking Break**
10:45 a.m. – 11:00 a.m. • Key Foyer
INNOVATIVE TECHNOLOGIES FOR A BETTER SOLUTION

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11:00 a.m. – 12:00 p.m. **A1 The Bold and the Dutiful**

**Key 9** Changing economics, ratepayer needs and expectations, renewable resource strategies, and distributed generation are just a few of the hot topics regulators and the utility industry are navigating today. As the pace of innovation and change in the energy landscape accelerates, regulators and utilities are being asked to think more strategically – and more short term. Attendees will hear how regulators and utilities balance their core tenets: reliable service to consumers, affordable rates, sound risk management plans, and transparent processes in this new environment. Participants will answer the following: How do regulators see the balance of innovation vs the level of risk and ratepayer impact? How is innovation utilized without exposing companies to regulatory turbulence? How can innovation be effected without a substantial rate increase? Are these changes needed and cost-effective to the ratepayer?

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

**Participants:** Hon. Nancy Lange, Minnesota
Tiffany Menhorn, EnerNOC, Inc., Wholesale Procurement

11:00 a.m. – 12:00 p.m. **A2 Is A Cyber 9/11 In Our Future?**

**Key 6** In August, the President’s National Infrastructure Advisory Council (NIAC) unanimously approved a 45-page report that found the federal government and the private sector are “falling short” in protecting critical systems. The report also states that the nation faces “a pre-9/11-level cyber moment, with a narrow and fleeting window of opportunity to coordinate our resources effectively.”

Attendees will:
- Receive an overview of the NIAC report and its specific 11 recommendations to address vulnerabilities.
- Hear experts discuss their reactions to the report.
- Learn what actions are being taken to secure critical infrastructure networks from cyberattacks.

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

**Participants:** Caitlin Durkovich, Leadership, Toffler Associates
Robert H. Mayer, Senior Vice President – Cybersecurity, USTelecom Association
NIAC Representative
Susan Story, President & CEO, American Water

11:00 a.m. – 12:00 p.m. **A3 Weathering the Storm: Communications Network Resilience**

**Key 2** Hurricanes Katrina and Rita, Superstorm Sandy, and the 2012 Derecho taught us many lessons. Changes in response time, resilience measures to the network, and mutual assistance procedures were just a few measures examined in some regions. During this session, regulators will discuss how measures implemented from previous experiences impacted recent restoration efforts and timelines and what lessons were learned this time around.

**Moderator:** Hon. Julie Brown, Florida

**Participants:** Hon. John Clendenin, Virgin Islands
Hon. Mary-Anna Holden, New Jersey
Hon. Gregg Sayre, New York
Hon. DeAnn Walker, Texas
Hon. Stan Wise, Georgia
11:00 a.m. – 12:00 p.m. **A4 The Battle for Peak Capacity: Batteries vs. Gas**

The United States electric grid is expected to need more peaking capacity resources, both to replace retiring units and to integrate higher levels of variable generation. Natural gas-fired power plants are the dominant technology providing peaking capacity. But for how long? Rapid and significant cost declines in battery energy storage have some proponents arguing that it can substitute for the gas peaking equipment. This session will debate whether battery storage can really compete with gas peakers.

Through an interactive Jeopardy-style experience, attendees will:

- Learn innovative ways regulators are approaching planning and procurement of new peaking capacity.
- Learn what the benefits are (if any) to consumers.

**Moderator:** Hon. Ted Thomas, Arkansas

**Participants:**
- Mikael Backman, Regional Director, North America, Energy Solutions, Wartsila Corporation
- Praveen Kathpal, Vice President, AES Energy Storage
- Chris Villarreal, President, Plugged-In Strategies

11:00 a.m. – 12:00 p.m. **A5 From the Joneses to the Jetsons! Smart Communities and Infrastructure**

If communities are getting “smarter,” regulators must stay ahead of the curve. Utilities are investing in a smarter electric grid that benefits customers and are working on projects in ‘smart communities’ to establish programs to bring more resilient and sustainable options to customers. As the smart technologies advance, industry, stakeholders, regulators, and policymakers should be on the same page.

Attendees will participate in a dynamic discussion that will address:

- How ‘smart communities’ are defined and how the emerging technologies will affect utility customers.
- What regulators may see in future proceedings and what investments utilities are making.
- Stakeholder perspectives on how ratepayers may be affected, along with privacy and cyber concerns.
- How financing these new programs will affect ratepayers in the near and far terms.
- Benchmarks and metrics to assess performance.

**Moderator:** Hon. Odogwu Linton, Maryland

**Participants:**
- Donna Cooper, President, Pepco Region for PHI
- Brigham A. McCown, Nouveau, Inc
- Michael Murray, President, Mission: data
- David Owens, Retired Executive Vice President, Edison Electric Institute
- Russ Vanos, VP Global Software, Services & Smart Cities, ITRON

**Annual Officer Installation Luncheon and Innovation Awards**

12:00 p.m. – 1:15 p.m. • Holiday Ballroom
DOE's Office of Fossil Energy consists of ~1,000 scientists, engineers, technicians and administrative staff located in many states. The Office of Fossil Energy is responsible for several high-priority research, development, and demonstration initiatives to develop a new generation of environmentally sound clean coal technologies, and the nation's Strategic Petroleum Reserve and Northeast Home Heating Oil Reserve, both key emergency response tools available to the President to protect Americans from energy supply disruptions.

The Office of Fossil Energy is very active in its support and outreach to the states, and is eager to work with states to help them meet their energy needs.
Concurrent Sessions Section B
1:45 p.m. – 2:45 p.m.

1:45 p.m. – 2:45 p.m. **B1 Power to the Market**

The need for traditional sources of baseload electricity has taken the spotlight recently, particularly with the Department of Energy's filing of a Notice of Proposed Rulemaking directing FERC to “accurately price generation resources necessary to maintain reliability and resiliency.” Because coal and nuclear generate half of the nation’s electricity, some believe that these sources are necessary to ensure grid reliability, resilience and fuel diversity. Others believe the concept of baseload is outmoded and challenge the need to modify the rules or market. What is not in dispute is the large amount of traditional baseload generating capacity that has retired with more on the horizon. This panel will discuss: the future role of coal and nuclear; whether reliability and resiliency are being valued now and if not, whether they should be; what attributes should be valued; and what changes, if any, are needed to ensure just and reasonable rates.

**Moderator:** Hon. Ellen Nowak, Wisconsin  
**Participants:** Hon. Kara Brighton, Wyoming  
Paul Bailey, CEO, ACCCE  
Kathleen Barron, Vice President of Federal Regulatory Affairs and Policy, Exelon  
Martin (Marty) J. Durbin, Executive Vice President and Chief Strategy Officer, API  
Steve Herling, Vice President - Planning, PJM

1:45 p.m. – 2:45 p.m. **B2 Frenemies and Free Riders**

Who doesn't want a free ride? Utility poles are in place but are they available to anyone? A recommendation from the Federal Communications Commission’s Broadband Deployment Advisory Committee (BDAC) on pole attachments is expected in early November. This report will likely include major changes to the rules governing pole attachments, conduits, and rights-of-way. The report may also suggest pre-emption of State and local authority.

Attendees will:
- Become better informed about the recommendations of the BDAC.  
- Hear reactions to the realities on pole attachments and the BDAC’s recommendations from the panel of experts representing telecommunications and electricity providers, regulators, and local governments.

**Moderator:** Hon. Michael Caron, Connecticut  
**Participants:** Hon. Wendy Moser, Colorado  
Hon. Karen Charles Peterson, Massachusetts  
Allen Bell, Support Manager, Georgia Power  
David Don, Vice President, Regulatory Policy, Comcast NBCUniversal  
Mitsuko Herrera, Dept. of Technology Services, Montgomery County, Maryland

1:45 p.m. – 2:45 p.m. **B3 Charging Ahead: Part II**

As sales of electric vehicles continue to rise, commissions are increasingly being presented with proposals from utilities to allow financial recovery for charging infrastructure investments. Building upon last year’s panel, where regulators learned about electric vehicles and rate design, this session will examine developments that have occurred over the last year. Specifically, regulators will learn about recent State commission decisions on whether to finance electric vehicle infrastructure through general customer rates or other means. The application of traditional rate setting concepts, such as fairness to consumers and distribution of benefits, will also be explored.
Moderator: Hon. Rachael Eubanks, Michigan  
Participants: Hon. Daniel Hall, Missouri
Max Baumhefner, NRDC

1:45 p.m. – 2:45 p.m.  B4 Upstream with A Paddle

The water industry is grappling with challenges that require significant financial investment, technical expertise, and technological innovation. These challenges are exacerbated by widespread fragmentation. There are more than 52,000 community water systems where 83 percent of the water systems serve less than 3,300 people. Many small and mid-sized water utilities lack resources needed to surmount the critical issues they are facing. State legislatures have instituted legislative and regulatory solutions that encourage acquisition of struggling waters systems and incentivize investment. This panel will explore legislative and regulatory options to help ensure that water can be safely, reliably, and affordably provided to consumers.

Attendees will be presented with:
• Ideas to manage market fragmentation.
• Solutions to improve troubled water systems.
• Incentives to encourage long-term infrastructure investment.

Moderator: Hon. Sadzi M. Oliva, Illinois  
Participants: Mayor Michael Cherepko, City of McKeesport, PA
Deborah Dewey, President, Indiana American Water
Ellen Tarquinio, Environmental Protection Specialist, EPA
Richard Verdi, Senior Equity Research Analyst-Water, Atwater Thornton

1:45 p.m. – 2:45 p.m.  B5 Myth Busters...Family Feud Style

Reliability for wind and microgrids have been put to the test! Wind has earned a reputation for beating to its own drum – but does that make it unreliable from an operator’s perspective? Is a 100% renewable grid possible? Are microgrids a reliability silver bullet? This session will explore some of the research and experiences of people in the industry about familiar antidotes to today’s grid issues. Some say that wind is intermittent and therefore unreliable, whereas an operator may know something different. Some say that a 100% renewable grid is absolutely possible and that we should get a move on it already. Is that reality and what do others have to say about it? Microgrids might be a perfect fit for one campus, but should they be adopted everywhere? This session will break down some of the common, general questions and themes we are hearing.

Welcome to Family Feud. Our goal is to make this educational and entertaining. See our panelists go head to head to guess the top answers from survey questions. The winners get to pass or play, stake their claim first, or wait and rebut the others’ claim. We’ll then closeout the board with panelists guessing the rest of the survey answers. Three strikes and the other team can steal the board with a correct guess! Plan to join us for a fun and informative discussion. The winners won’t get to play fast money, but they’ll have NARUC bragging rights.

Moderator: Hon. Nick Wagner, Iowa  
Participants: Hon. Michael Huebsch, Wisconsin
Rob Gramlich, President, Grid Strategies, LLC
Bruce Rew, Vice President, Operations, Southwest Power Pool, Inc.
Susan L. Satter, Public Utilities Counsel, Office of Attorney General Lisa Madigan, Illinois
Matthew Wald, Senior Communications Advisor, Nuclear Energy Institute
Don Wingate, Vice President – Utility Sales, Strategic Customers and Microgrid Solutions, Schneider Electric
NARUC Research Lab MegaModel Mini Demo
NARUC has developed an interactive Excel-based game to teach regulators, legislators, advocates, and other decision-makers about utility business models and regulatory regimes. Explore performance-based and cost-of-service regulation in vertically integrated and restructured environments. Attendees will learn more about the game and take a test drive.
Moderators: Kerry Worthington, Senior Manager, NARUC Research Lab
Kiera Zitelman, Program Officer, NARUC Research Lab

NRRI Colloquium
3:00 p.m. – 4:30 p.m. • Poe

Telecommunications Oversight 2017: A State Perspective
This presentation takes a look at the findings of the 2017 NRRI Regulation Survey. It addresses the ways in which State Commissions continue to oversee critical communications services to protect consumers, ensure competition, and support the public good, despite reduced regulation and the transition to new technology.
Presenter: Sherry Lichtenberg, NRRI

Electrification: The Link Between Markets, Consumer Behavior, and Public Policy
Presenter: Ken Costello, NRRI

Water Distribution System Improvement Charges: 20 Years in Review
Presenter: Kathryn Kline, NRRI

IRP from Both Sides Now: Planning and Implementing Distributed Energy Resources
Combination of DER are proving cost-effective in many circumstances, so actions to adopt DER options are being taken by policy-makers, regulators, utilities, and customers. This presentation reviews the major types of actions, looking at early case studies to identify lessons learned.
Presenter: Tom Stanton, NRRI

Board of Directors Meeting
3:00 p.m. – 4:30 p.m. • Johnson
Wednesday, November 15

Registration Open
8:30 a.m. – 11:00 a.m. • Key Foyer

Concurrent Sessions Section C
9:00 a.m. – 10:15 a.m.

9:00 a.m. – 10:15 a.m. C1 To Know or Not to Know: That is the Ethical Question
Scenario: A State Right-to-Know (RTK) requester was the Appellant in ongoing litigation he filed against a State utility in a court proceeding. The RTK requester asked the State public utility commission (PUC) for e-mail exchanges between counsel for the PUC and counsel for the utility regarding the PUC's strategy and participation as amicus curie in that court proceeding, as well as disclose the exchange of draft legal arguments. Because these communications were an attorney-client work product between the Commission's attorneys and the utility's counsel and were PUC counsel's legal strategies and consultations in furtherance of representation of the PUC's legal interest, those communications were withheld as confidential attorney-client and attorney work product.

The RTK requester appealed and the State Office of Open Records (OOR) ordered the disclosure of the communications. The OOR determined that because no confidentiality agreement existed between the PUC attorneys and the utility's counsel, and the Commission was only an amicus party, the Commission waived the privilege. OOR created a new separate standard for government attorneys when only the State Supreme Court has jurisdiction over the practice of law. No such requirement of an agreement exists when attorneys share the same litigation position. The OOR also ignored the ethical dilemma placed upon the attorneys by granting the RTK requester and his attorney access to privileged documents that could never be obtained under the Canons of Ethics. The ethical question was also raised for attorneys acting as solicitors for municipal governments, which are subject to the RTK Law in that State.

Attendees will:
• Learn how to identify information and certain types of records to determine if the record fits the definition of a State’s RTK Law.
• Review how to determine if a record is a public document or if it is protected by exemption from disclosure.
• Participate in a discussion on the ethical responsibility to protect certain types of information balanced against transparency of government operations and the public’s right to know.

Facilitators: Hon. David Sweet, Pennsylvania
             Rosemary Chiavetta, Secretary, Pennsylvania

9:00 a.m. – 10:15 a.m. C2 Water and Electric Cybersecurity: Stakeholder Perspectives and Partnerships
During this panel, we will explore cybersecurity approaches that are being used in the water sector as well as how coordination is conducted with the electric sector, which has common control systems. Speakers will discuss the controls and programs that water companies use to avoid being hacked, including how recent cyber incidents were prevented such as WannaCry, Petya, and more. We will also hear the regulatory perspective on the potential adverse impacts caused by cyber incidents in water and electric systems, including health threats, as well as how these threats are managed at the state level. Lessons from Indiana’s recent cross-sector exercise, CritEx, will be shared. Additionally, we will learn about the role that partnerships can play in resiliency and cybersecurity, including lessons learned from
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Indiana’s strategic approach in developing cross-sector partnerships through the Indiana Executive Council on Cybersecurity.

**Moderator:** Hon. Sarah Freeman, Indiana  
**Participants:** Hon. Mary-Anna Holden, New Jersey  
John Lucas, Vice President, Citizens Energy Group  
Michael Luu, CIO & VP, Customer Service, California Water Service  
Chetrice Mosley, State of Indiana Cybersecurity Program Director  
Nick Santillo, VP Internal Audit & CSO, American Water

**C3 Oh, What a Beautiful ‘Site’? New Realities in Siting**

Key 8  
Multiple State and federal agencies are involved in transmission planning and siting. States are being asked to evaluate non-traditional projects, and economic and reliability projects are being proposed by a number of parties through integrated resource planning and other planning processes. New ways of thinking about electricity resources are affecting traditional transmission planning and siting, cost allocation, and the roles of State officials, utilities, and consumer advocates in these decisions. Siting discussions now include independent transmission owners and multiple local, State, and federal organizations, in addition to traditional utilities.

Attendees will:
- Hear the perspectives of State agencies as they navigate the changing transmission siting landscape.
- Learn processes for identifying infrastructure corridors on private and public lands.
- Tune into the State-level process challenges.

**Moderator:** Hon. Betty Ann Kane, District of Columbia  
**Participants:** Hon. Ted Thomas, Arkansas  
Patrick Donlon, Director, Ohio  
Marissa Gillette, Senior Advisor to the Chairman, Maryland  
Fred Hoover, NASEO  
Tanya McCloskey, Acting Consumer Advocate for Pennsylvania and Executive Committee Member of NCEP.

**Networking Break**

10:15 a.m. – 10:30 a.m. • Holiday Foyer
Closing General Session

10:30 a.m. – 11:45 a.m. • Holiday Ballroom

Utility Scam Awareness Day and NARUC Business Meeting

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

The U.S. House of Representatives has designated the third Wednesday in November as Utility Scam Awareness Day. This year, we recognize it on November 15. Today, or on any given day, utility customers are receiving calls from people falsely asserting they represent a utility company. Callers are threatening to disconnect electric, water, or gas service, if immediate payment isn’t made. These villains target vulnerable populations, including senior citizens and non-native English speakers. They use sophisticated tactics, including caller identification spoofing technology and recordings of the utility company’s telephone menu messages. Utilities United against Scams (UUAS) is comprised of more than 100 (and growing) electric, water, and gas utilities, along with their respective trade associations in North America. The aim of UUAS is to educate customers about scam tactics in the hopes of ultimately putting an end to these types of crimes.

Attendees will:

• Learn how these scams have a negative financial, fear-inducing effect of fraud on utility customers.
• Learn the vital role that regulators play in working with utilities to protect consumers from scams.
• Learn the types of phone, in-person, and Internet scams utility customers are currently experiencing.
• Learn tips to share with constituents/consumers to avoid falling for utility impostor scams.
• Explore solutions adapted for websites, social media, and in-person outreach events/town halls.
• Hear about steps utilities and their partners have taken to educate consumers on these scams.

Moderator:  Hon. Jack Betkoski, NARUC President, Connecticut

Participants:  Bryan Batson, SVP, Southern Operations, Southern Company Gas
             Sheri Givens, Author, Consumer Scam Awareness Guide & Executive Director, Utilities United Against Scams
             Kristin Keckeisen, Director, AARP Campaigns
             Elin Swanson Katz, Consumer Counsel, State of Connecticut
             Maureen Westbrook, VP Customer & Regulatory, Connecticut Water Company
Certificate of Attendance
Be sure to get a certificate of attendance while at the Annual Meeting. Certificates will be available at the NARUC Registration Desk beginning Tuesday, November 14, at 9:00 a.m. Please pick up a certificate by 11:00 a.m. on Wednesday, November 15. Certificates of attendance are not distributed after the meeting. It is the responsibility of the individuals to collect any handouts required by their State accreditation board. For questions after the meeting, contact Wendy Harris at wharris@naruc.org.

CLE Credit
When offering CLE credit, NARUC abides by the rules and regulations of all applicable professional accrediting boards and agencies. NARUC will not be able to provide CLE credit for attendees who leave the session before the program ends. To attain CLE compliance, ensure the integrity of our CLE processes, and preserve the high value of our CLE offerings for all attendees, please attend and stay until the sessions end.

_Pennsylvania CLE Board Reminder:_ Introductory remarks, keynote addresses, business meetings, breaks, receptions, etc., are not included in the computation of credit.

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NARUC INTERNATIONAL

NARUC works around the world to support quality and effective energy regulation. Share your experience and knowledge to help solve problems and improve people's lives.

To Learn More, Contact International Programs Director Erin Hammel at ehammel@naruc.org or visit naruc.org/international
Thank you for attending the 129th Annual Meeting and Education Conference. We look forward to seeing you at the 2018 Winter Policy Summit.

Mark your calendars!

Registration opens in December.

February 11–14, 2018
Renaissance Washington Hotel
Washington, D.C.