



Agenda

Energy Risk and Critical Infrastructure Workshop

May 25 – 26, 2016

*The Magnolia Hotel
818 17th Street | Denver, CO*

Wednesday, May 25	
7:30 – 8 a.m.	Breakfast
8 - 8:30 a.m.	Welcoming Remarks and Introductions <i>NCSL and NARUC Staff and Attendees</i>
8:30 – 9:15 a.m.	Near and Long-Term Energy Outlook Energy supplies and costs can have strong influences on state energy planning and policy. Understanding potential future scenarios can help energy decision makers make investments that reduce rather than increase risk. Learn what the experts are thinking regarding regional, national and global energy supplies, and what the outlook means for state decision-makers. <i>Troy Cook, Senior Global Upstream Analyst, U.S. Energy Information Administration</i>
9:15 – 10:15 a.m.	Reliability and Grid Modernization As the grid rapidly evolves to incorporate new ‘smart grid’ technologies, energy storage and distributed generation, tremendous opportunities for increasing reliability are being created. This session will explore the evolutions of the energy grid and what is being done, or could be done, to create a more resilient and robust energy system. <i>Caitlin Callaghan, Office of Electricity Delivery and Energy Reliability, U.S. Department of Energy</i> <i>Maury Galbraith, Executive Director, Western Interstate Energy Board</i> <i>Janet Sena, Senior Vice President and Director of Policy and External Affairs, North American Electric Reliability Corporation</i>
10:15 – 10:30 a.m.	Break

10:30 – noon	<p>Threats to the Power System</p> <p>The energy grid faces a number of natural and man-made threats, many of which are changing due to shifts in weather and grid technologies. This session will explore these threats, their regional variations, and how they rank in risk and importance.</p> <p><i>Stephen Folga, Engineer, Argonne National Laboratory</i></p> <p><i>Richard Lordan, Senior Technical Executive, Electric Power Research Institute</i></p> <p><i>William Mahoney, Deputy Director of the Research Applications Laboratory, National Center for Atmospheric Research</i></p>
Noon – 1:15 p.m.	<p>Lunch — Securing the Grid Against Cyber-Attacks</p> <p>Although grid technologies can increase reliability and efficiency, the increase connectedness of energy control systems poses real risks of damaging cyber-attacks. As these attacks become more frequent and serious, what steps can utilities, grid managers and policymakers take to harden the grid?</p> <p><i>Shawn Taylor, Security Systems Analysis Manager, Sandia National Laboratory</i></p>
1:15 p.m. – 2:15 p.m.	<p>Increasing Resiliency, Restoration and Reliability</p> <p>Since major events such as hurricanes, storms and earthquakes can create significant damage at many levels of the power grid, it is essential that coordination and cooperation between government, utilities, and other involved entities be outlined and established ahead of time to enable the best and quickest response. Mutual assistance partnerships among utilities is also critical to ensuring skilled workers and equipment are available to swiftly restore power after major events.</p> <p><i>Richard Ward, Manage of National Security and Infrastructure Protection, Edison Electric Institute</i></p> <p><i>Martha Duggan, Senior Principal of Regulatory Affairs, National Rural Electric Cooperative Association</i></p> <p><i>Mike Hyland, Senior Vice President of Engineering Services, American Public Power Association</i></p>
2:15 – 2:30 p.m.	Break
2:30 p.m.	Bus Departs
2:30 – 3 p.m.	Travel to Western Area Power Administration (WAPA)
3 – 5 p.m.	<p>Tour of WAPA’s Electric Power Training Center</p> <p>Attendees have the opportunity to participate in grid simulations through WAPA’s Miniature Power System, a unique operational power system simulator.</p>
5 – 5:30 p.m.	Return to the Magnolia Hotel

5:30 – 6:30 p.m.	<p>Reception</p> <p><i>Please join us for complimentary drinks and hors d'oeuvres served at the Magnolia Hotel.</i></p>
Thursday, May 26	
8 - 8:30 a.m.	Breakfast
8:30 – 8:45 a.m.	<p>Review of Day 1</p> <p><i>NCSL and NARUC Staff and Attendees</i></p>
8:45 – 11:30 a.m.	<p>NARUC’s Resilience Lab</p> <p>The Resilience Lab will take participants through an exercise that explores options for managing the many risks to our power systems. The lab guides participants through a series of potential scenarios dealing with threats and challenges to the grid, allowing them to make decisions and learn more about the challenges state decision makers and utilities face as they work to maintain a reliable, resilient and affordable electric grid.</p> <p><i>Miles Keogh, Director of Grants & Research, National Association of Regulatory Utility Commissioners</i></p> <p><i>Sharon Thomas, Senior Program Officer, National Association of Regulatory Utility Commissioners</i></p>
11:30 a.m. – 1 p.m.	<p>Lunch — Putting the Pieces Together</p> <p>The guided discussion will give participants the opportunity to share what they’ve learned, discuss how they could use the information as they address energy risks in their states and provide feedback on what additional materials or support would assist them in this task.</p>

<u>NCSL Contacts</u>	
Glen Andersen, Energy Program Director Glen.Andersen@ncsl.org , (303) 856-1341	Kristy Hartman, Program Principal Kristine.Hartman@ncsl.org , (303) 856-1509