



# Grid Modernization Initiative Southeast Region Workshop

**May 17, 2016**

<b>12:30</b>	<b>Registration</b>	
<b>1:00</b>	<b>Welcome and Introductions</b> • <i>Eric Lightner, Office of Electricity Delivery &amp; Energy Reliability</i>	
<b>1:10</b>	<b>Grid Modernization Initiative (GMI) Overview</b> Overview of the vision and technical areas of the Grid Modernization Initiative • <i>Bill Parks, Office of Electricity Delivery &amp; Energy Reliability</i> • <i>Kevin Lynn, Office of Energy Efficiency &amp; Renewable Energy</i>	
<b>1:30</b>	<b>Technology Sessions</b> Each session will have a 10-minute presentation of the technology area followed by a facilitated stakeholder discussion to solicit input and feedback on the priorities outlined in DOE's multiyear program plan.	
	<b>Session 1: Devices &amp; Integrated Systems</b> Room: 119 A Presenter: Teja Kuruganti, ORNL Facilitator: Bryan Hannegan, NREL	<b>Session 2: Sensing &amp; Measurement</b> Room: 119 C Presenter: Tom King, ORNL Facilitator: Carl Imhoff, PNNL
	<i>Discussion Questions:</i> • <i>Will the proposed research plan lead to practical applications and solve industry needs?</i> • <i>Are there technology areas that are not addressed?</i> • <i>Is the plan realistic but ambitious enough to respond to new developments?</i>	
<b>2:30</b>	<b>Break</b>	
<b>2:45</b>	<b>Session 3: Security &amp; Resilience</b> Room: 119 A Presenter: Arjun Shankar, ORNL Facilitator: Bryan Hannegan, NREL	<b>Session 4: System Operations &amp; Control</b> Room: 119 C Presenter: Alex Melin, ORNL Facilitator: Carl Imhoff, PNNL
	<i>Discussion Questions:</i> • <i>Will the proposed research plan lead to practical applications and solve industry needs?</i> • <i>Are there technology areas that are not addressed?</i> • <i>Is the plan realistic but ambitious enough to respond to new developments?</i>	
<b>3:45</b>	<b>Break</b>	
<b>4:00</b>	<b>Session 5: Design &amp; Planning Tools</b> Room: 119 A Presenter: Russell Bent, LANL Facilitator Bryan Hannegan, NREL	<b>Session 6: Institutional Support</b> Room: 119 C Presenter: Patrick O'Connor, ORNL Facilitator: Carl Imhoff, PNNL
	<i>Discussion Questions:</i> • <i>Will the proposed research plan lead to practical applications and solve industry needs?</i> • <i>Are there technology areas that are not addressed?</i> • <i>Is the plan realistic but ambitious enough to respond to new developments?</i>	<i>Discussion Questions:</i> • <i>What information or tools are needed to better allow policy makers to understand the technology impacts of policy decisions?</i> • <i>How could DOE better provide the information needed for the evaluation of technology investments to support policy goals?</i> • <i>What methods would be most effective for providing support to policy maker requests?</i>
<b>5:00</b>	<b>Adjourn</b>	



## May 18, 2016

**8:00 Continental Breakfast**

**8:30 Welcome and GMI Workshop Overview**  
 • *Eric Lightner, Office of Electricity Delivery & Energy Reliability*

**8:40 Technical Session Key Themes**  
 • *Carl Imhoff, PNNL*  
 • *Bryan Hannegan, NREL*

**8:50 Regional Stakeholder Panel: The Modern Grid and Its Challenges**  
 Industry perspectives on the current and future challenges of grid modernization.  
 Moderator: Bruce Rogers, Electric Power Research Institute  
*Panelists:*  
 • *Gary Rackliffe, ABB*  
 • *Jim Ingraham, Electric Power Board of Chattanooga*  
 • *TBD, Southern Company*

**9:50 Break**

**10:15 Regional Sessions**  
 Each session will discuss the technology challenges associated with the implementation of grid modernization policies and thoughts on overcoming these challenges.

**Session 1A: The Role of DER in Utility Planning and Operations**  
 Room: 119 A  
 Facilitator: Dan Delurey, Wedgemere Group

**Session 1B: The Role of DER in Utility Planning and Operations**  
 Room: 119 C  
 Facilitator: Laney Brown, Modern Grid Partners

*Discussion Questions:*

- *What is the role of DER in modernization efforts in the Southeast?*
- *How can DER provide value to system operations?*
- *How does DER factor into the different planning processes (e.g., distribution, IRP)?*
- *How can DER assets be leveraged by the Transmission operator?*
- *Are there technical, financial or regulatory challenges to realizing the full potential value of DER?*
- *What is the role of microgrids, storage, energy efficiency, demand response?*

**11:15 Break**

**11:30 Session 2A: Maintaining Reliability in the 21st Century Grid**  
 Room: 119 A  
 Facilitator: Dan Delurey, Wedgemere Group

**Session 2B: Maintaining Reliability in the 21st Century Grid**  
 Room: 119 C  
 Facilitator: Laney Brown, Modern Grid Partners

*Discussion Questions:*

- *How is the definition of reliability changing as the grid is modernized?*
- *What are the technology challenges associated with maintaining reliability?*
- *Is reliability being compromised to expand customer choice?*
- *What are the main threats to reliability in the Southeast?*
- *Are new metrics needed for measuring reliability?*

**12:30 Lunch**

**1:30 Regional Partnerships and Demonstrations**  
 Presentation of proposed areas for future demonstrations followed by a facilitated discussion of stakeholder perspectives on the attributes of regional importance.  
 • Facilitator: Laney Brown, Modern Grid Partners

**2:30 Closing Remarks**

**2:45 Adjourn**