



Grid Modernization Initiative Northeast Region Workshop

April 13, 2016

12:30 Registration

1:00 Welcome and Grid Modernization Initiative (GMI) Overview

Overview of the vision and technical areas of the Grid Modernization Initiative

- *Bill Parks, Office of Electricity Delivery & Energy Reliability*
- *Kevin Lynn, Office of Energy Efficiency & Renewable Energy*

1:30 Technology Sessions

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.

Session 1: Devices & Integrated Systems

Room: Salons DEFL

Presenter: Steve Widergren, PNNL

Facilitator: Bryan Hannegan, NREL

Session 2: Sensing & Measurement

Room: Salons GHI

Presenter: Tom King, ORNL

Facilitator: Carl Imhoff, PNNL

Discussion Questions:

- *Will the proposed research plan lead to practical applications and solve industry needs?*
- *Are there technology areas that are not addressed?*
- *Is the plan realistic but ambitious enough to respond to new developments?*

2:30 Coffee Break

3:00 Session 3: Security & Resilience

Room: Salons DEFL

Presenter: Pat Looney, BNL

Facilitator: Bryan Hannegan, NREL

Session 4: System Operations & Control

Room: Salons GHI

Presenter: Jeff Dagle, PNNL

Facilitator: Carl Imhoff, PNNL

Discussion Questions:

- *Will the proposed research plan lead to practical applications and solve industry needs?*
- *Are there technology areas that are not addressed?*
- *Is the plan realistic but ambitious enough to respond to new developments?*

4:00 Break

4:15 Session 5: Design & Planning Tools

Room: Salons DEFL

Presenter: John Grosh, LLNL

Facilitator: Bryan Hannegan, NREL

Session 6: Institutional Support

Room: Salons GHI

Presenter: Vladimir Koritarov, ANL

Facilitator: Carl Imhoff, PNNL



Discussion Questions:

- Will the proposed research plan lead to practical applications and solve industry needs?
- Are there technology areas that are not addressed?
- Is the plan realistic but ambitious enough to respond to new developments?

Discussion Questions:

- What information or tools are needed to better allow policy makers to understand the technology impacts of policy decisions?
- How could DOE better provide the information needed for the evaluation of technology investments to support policy goals?
- What methods would be most effective for providing support to policy maker requests?

5:15 Technical Session Takeaways

- Carl Imhoff, PNNL
- Bryan Hannegan, NREL

5:30 Adjourn

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8:00 Continental Breakfast

8:30 Welcome and GMI Workshop Overview

- Eric Lightner, Office of Electricity Delivery & Energy Reliability

8:45 Regional Stakeholder Panel: The Modern Grid and Its Challenges

Industry perspectives on the current and future challenges of grid modernization.

Moderator: Forrest Small, BRIDGE Energy Group

Panelists:

- Bill Jones, National Grid, Director of the Smart Energy Solutions Program
- Michael Henderson, Director, Regional Planning and Coordination, ISO New England

9:45 Regional Sessions

Each session will discuss the technology challenges associated with the implementation of grid modernization policies and thoughts on overcoming these challenges.

10:00 Session 1A: Pursuing Resiliency in Today's Modern Grid

Room: Salons DEFL

Facilitator: Rich Sedano, Regulatory

Assistance Project

Session 1B: Pursuing Resiliency in Today's Modern Grid

Room: Salons GHI

Facilitator: Dan Delurey, Wedgemere Group

Discussion Questions:

- Does the definition of resiliency change with increasing distributed energy resources?
- What is the balance between traditional resiliency measures and the deployment of other technologies (e.g., system-wide control and visibility, microgrids, customer-owned distributed energy resources)?
- What are the limiting factors (or barriers) to increasing resiliency to natural hazards (hurricanes, tornadoes, droughts, or other threats)?

11:00 Break



11:15	Session 2A: Sustainability Goals & the Four Rs Room: Salons DEFL Facilitator: Rich Sedano, Regulatory Assistance Project <i>Discussion Questions:</i> <ul style="list-style-type: none">• <i>What are the technology implications of the sustainability goals being proposed/adopted by communities and large customers?</i>• <i>What is the role of microgrids, storage, energy efficiency, and demand response in achieving these goals?</i>• <i>What opportunities will these solutions provide?</i>	Session 2B: Sustainability Goals & the Four Rs Room: Salons GHI Facilitator: Dan Delurey, Wedgemere Group
12:15	Lunch on Your Own	
1:30	Session 3A: Customers & the Modern Grid Room: Salons DEFL Facilitator: Rich Sedano, Regulatory Assistance Project <i>Discussion Questions:</i> <ul style="list-style-type: none">• <i>What system changes, technologies, and data may be needed to enable greater customer interaction?</i>• <i>What capabilities are needed to increase customer involvement and meet changing customer expectations?</i>• <i>What are the limiting factors to increasing customer involvement with the grid (either through new services like home area networks or Nest thermostats, supplying their own energy, or time-of-use rates to shift peak, etc.)?</i>	Session 3B: Customers & the Modern Grid Room: Salons GHI Facilitator: Dan Delurey, Wedgemere Group
2:30	Break	
2:45	Regional Session Takeaways <ul style="list-style-type: none">• <i>Bill Parks, Office of Electricity Delivery & Energy Reliability</i>• <i>Kevin Lynn, Office of Energy Efficiency & Renewable Energy</i>	
3:00	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. <ul style="list-style-type: none">• <i>Facilitator: Rich Sedano, Regulatory Assistance Project</i>	
4:30	Closing Remarks <ul style="list-style-type: none">• <i>Bill Parks, Office of Electricity Delivery & Energy Reliability</i>• <i>Kevin Lynn, Office of Energy Efficiency & Renewable Energy</i>	
4:45	Adjourn	