



Grid Modernization Initiative Southwest Region Workshop

June 7, 2016

12:30	Registration	
1:00	Welcome and Introductions • <i>Eric Lightner, Office of Electricity Delivery & Energy Reliability</i>	
1:10	Welcome - Stanford University • <i>Sally Benson, Co-Director of Precourt Institute of Energy</i>	
1:20	Grid Modernization Initiative (GMI) Overview Overview of the vision and technical areas of the Grid Modernization Initiative • <i>Bill Parks, Office of Electricity Delivery & Energy Reliability</i> • <i>Kevin Lynn, Office of Energy Efficiency & Renewable Energy</i>	
1:40	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 Paul Brest Hall East Presenter: Bruce Nordman, LBNL Facilitator: Bryan Hannegan, NREL	Session 2: Sensing & Measurement Paul Brest Hall West Presenter: Tom King, ORNL Facilitator: Carl Imhoff, PNNL
	<i>Discussion Questions:</i> <ul style="list-style-type: none"> • <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> 	
2:40	Break	
3:00	Session 3: Security & Resilience Paul Brest Hall East Presenter: Sean Peisert, LBNL Facilitator: Bryan Hannegan, NREL	Session 4: System Operations & Control Paul Brest Hall West Presenter: Liang Min, LLNL Facilitator: Carl Imhoff, PNNL
	<i>Discussion Questions:</i> <ul style="list-style-type: none"> • <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> 	
4:00	Break	
4:15	Session 5: Design & Planning Tools Paul Brest Hall East Presenter: John Grosh, LLNL Facilitator Bryan Hannegan, NREL	Session 6: Institutional Support Paul Brest Hall West Presenter: Charles Goldman, LBNL Facilitator: Carl Imhoff, PNNL
	<i>Discussion Questions:</i> <ul style="list-style-type: none"> • <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> <ul style="list-style-type: none"> • <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>
5:15	Adjourn	
5:30	Networking and Social Event	



June 8, 2016

8:00 Continental Breakfast

8:30 Welcome

- *Eric Lightner, Office of Electricity Delivery & Energy Reliability*

Opening Remarks

- *Patricia Hoffman, Assistant Secretary, Office of Electricity Delivery & Energy Reliability*

9:00 Regional Stakeholder Panel: The Modern Grid and Its Challenges

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

Moderator: Martin Rosenberg, Penton Media

Panelists:

- *TBD, California ISO*
- *TBD, PG&E*
- *TBD*

10:00 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: Bridging Practice and Potential with Increasing Distributed Energy Resources (DER)

Paul Brest Hall East

Facilitator: Ward Camp, Edison Energy LLC

Session 1B: Bridging Practice and Potential with Increasing Distributed Energy Resources (DER)

Paul Brest Hall West

Facilitator: Judith Schwartz, To the Point

Discussion Questions:

- *What are the top challenges or opportunities of operating the grid today versus the vision of a modern grid with more DER?*
- *What are the gaps between today's reality and tomorrow's vision?*
- *What is the role of community choice aggregation in helping communities achieve their renewable energy targets?*
- *What is the role of microgrids, storage, energy efficiency, and demand response related to DER penetration?*

11:15 Break

11:30 Session 2A: Cultivating a Culture of Innovation

Paul Brest Hall East

Facilitator: Ward Camp, Edison Energy LLC

Session 2B: Cultivating a Culture of Innovation

Paul Brest Hall West

Facilitator: Judith Schwartz, To the Point

Discussion Questions:

- *How is the electricity sector in the Southwest embracing a culture of innovation?*
- *How are innovative/disruptive technologies having an impact on the electricity sector?*
- *How can utilities harness innovation to meet changing customer expectations and needs?*
- *What are utilities doing to harness innovation to develop products/solutions that will help them to optimize, be more efficient, recover faster, etc.?*

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: Ward Camp, Edison Energy LLC*

2:30 Closing Remarks and Adjourn