



2018 Grid Modernization Initiative Peer Review

September 4–7, 2018

AGENDA

Tuesday, September 4, 2018

Time	Ballroom
12:00-1:00 PM	Check-In*
1:00-1:20 PM	<p>Opening Remarks</p> <p>Gil Bindewald, Chair, Grid Modernization Initiative Kevin Lynn, Co-Chair, Grid Modernization Initiative</p>
1:20-2:00 PM	<p>Welcome - DOE Leadership</p> <p>Bruce J. Walker, Assistant Secretary for the Office of Electricity and Acting Assistant Secretary for the Office of Cybersecurity, Energy Security, and Emergency Response Cathy Tripodi, Acting Assistant Secretary and Principal Deputy Assistant Secretary for the Office of Energy Efficiency and Renewable Energy Steve Winberg, Assistant Secretary for the Office of Fossil Energy Edward McGinnis, Principal Deputy Assistant Secretary for the Office of Nuclear Energy</p>
2:00-2:30 PM	<p>Keynote Speaker: Sanjay Bose</p> <p>Vice President at Con Edison</p>
2:30-3:30 PM	<p>GMLC Overview: Accomplishments From Year Two and Future Direction</p>
3:30-3:45 PM	Break
3:45-5:00 PM	<p>Regional Pioneer Partnerships – Lessons Learned</p> <p>Carl Imhoff, Pacific Northwest National Laboratory Juan Torres, National Renewable Energy Laboratory</p>

* Lunch Not Provided



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Wednesday, September 5, 2018

Time	Track 1	Track 2
	Devices and Integrated Systems Testing	Institutional Support
7:30-8:30 AM	Check-In and Continental Breakfast	
7:30-8:30 AM	<i>Reviewer Lead Meeting Time</i>	
8:30-9:45 AM	Future of the Grid Panel	
9:45-10:00 AM	Break	
10:00-10:10 AM	Devices and Integrated Systems Testing Introduction – Ben Kroposki	Institutional Support Introduction – Chuck Goldman
10:10-10:50 AM	Interoperability (1.2.2)	Foundational Analysis for GMLC Establishment (1.1)
10:50-11:30 AM	GMLC Testing Network (1.2.3)	Grid Services and Technologies Valuation Framework (1.2.4)
11:30-12:10 PM	Standards and Test Procedures for Interconnection and Interoperability (1.4.01)	Distribution System Decision Support Tools (1.4.25)
12:10-1:10 PM	Lunch	
1:10-1:50 PM	Definitions, Standards and Test Procedures for Grid Services from Devices (1.4.02)	Future Electricity Utility Regulation (1.4.29)
1:50-2:30 PM	Devices and Integrated Systems Testing Discussion	Laboratory Value Analysis Team (1.5.07)
2:30-2:50 PM		Institutional Support Discussion
2:50-3:30 PM	Break	
3:30-6:30 PM	Poster Session Galaxy Ballroom, 16th Floor	



Thursday, September 6, 2018

Time	Track 1	Track 2
	Resilient Distribution Systems & Security and Resilience	Design and Planning Tools
8:00-9:00 AM	Check-In and Continental Breakfast Poster Session Galaxy Ballroom, 16th Floor	
8:00-9:00 AM	<i>Reviewer Lead Meeting Time</i>	
9:00-9:10 AM	RDS Introduction – Juan Torres	Design and Planning Tools Introduction – John Grosh
9:10-9:50 AM	Grid Resilience and Intelligence Platform (GRIP) (1.5.01)	Development of Integrated Transmission, Distribution, and Communication Models (1.4.15)
9:50-10:30 AM	Resilient Alaskan Distribution System Improvements using Automation, Network Analysis, Control, and Energy Storage (RADIANCE) (1.5.02)	Extreme Event Modeling (1.4.17)
10:30-11:00 AM	Break	
11:00-11:40 AM	Increasing Distribution Resiliency using Flexible DER and Microgrid Assets Enabled by OpenFMB (Decentralized FLISR) (1.5.03)	Computational Science for Grid Management (1.4.18)
11:40-12:20 PM	Integration of Responsive Residential Loads into Distribution Management Systems (1.5.04)	Development and Deployment of Multi-Scale Production Cost Models (1.4.26)
12:20-1:20 PM	<i>Networking Lunch/Reviewer Working Lunch</i>	
1:20-2:00 PM	CleanStart-DERMS (1.5.05)	Design and Planning Tools Discussion
2:00-2:20 PM	SC-Secured Resilient Distribution Systems (1.5.06)	
2:20-2:40 PM	Break	Break
2:40-3:00 PM		
3:00-3:10PM	Security and Resilience Introduction – Juan Torres	
3:10-3:50 PM	Threat Detection and Response with Data Analytics (1.4.23)	
3:50-4:50 PM	RDS / Security and Resilience Discussion	Reviewer Lead Meeting Time
4:50-6:00 PM		



Friday, September 7, 2018

Time	Track 1	Track 2
	System Operations, Power Flow, and Control	Sensing and Measurements Introduction
7:30-8:30 AM	Check-In and Continental Breakfast	
7:30-8:30 AM	<i>Reviewer Lead Meeting Time</i>	
8:30-8:40 AM	System Operations, Power Flow, and Control Introduction – Jeff Dagle	Sensing and Measurements Introduction – Tom King
8:40-9:20 AM	Grid Architecture (1.2.1)	Sensing and Measurement Strategy (1.2.5)
9:20-10:00 AM	Control Theory (1.4.10)	Advanced Sensor Development (1.4.04)
10:00-10:20 AM	Break	
10:20-10:30 AM	Break	
10:30-11:10 AM	Multi-Scale Integration of Control Systems (EMS/DMS/BMS) (1.4.11)	Integrated Multi Scale Data Analytics and Machine Learning for the Grid (1.4.09)
11:10-12:10 PM	Systems Operations, Power Flow, and Control Discussion	Sensing and Measurement Discussion
12:10-1:00 PM	<i>Box Lunch/DOE and Peer Reviewers Working Lunch</i>	
1:00-2:30 PM	Peer Review Debrief (DOE and Peer Reviewers Only)	
2:30-2:45 PM	Break	
2:45-4:00 PM	Peer Review Debrief (DOE and Peer Reviewers Only)	

