

Distributed Energy Resources Subcommittee
PJM Conference and Training Center
December 15, 2017
1:00 p.m. – 4:00 p.m. EDT

[Distributed Energy Resource \(DER\)](#) is a generation or electric energy storage resource connected at distribution voltages and/or connected behind a load meter.

Administration

1. Mr. Scott Baker called the meeting to order and reviewed the agenda.
2. Ms. Cheryl Mae Velasco substituted for Mr. Andrew Gledhill as the Secretary. Ms. Velasco reviewed the meeting guidelines and conducted attendance of in-person attendees. The meeting minutes for the November meeting were approved with no comments or changes.
3. Mr. Baker noted that this was the first meeting of the subcommittee as the group previously met as a special session of the MIC. The workplan for the DERS was reviewed, outlining that the January 26th meeting will be a dedicated education session providing updates of the group's work thus far for those who may not have been following the group previously. The workplan also includes possible discussions surrounding non-wholesale DER and utility-owned microgrids. A suggestion was made to include another track to discuss the PJM interconnection rules and issues separate from the markets rules.

Informational Item – Update from the Primary Frequency Response Senior Task Force

4. Ms. Danielle Croop provided a review of the initial discussions in the PFRSTF and the proposals that have been presented. There is currently a proposal with requirements around governor controls, as well as proposals affecting compensation for resources that provide frequency response service. There was a discussion around whether the proposals at the PFRSTF would require tariff changes and whether those changes would affect the ISA or WMPA. These considerations will be discussed at future PFRSTF meetings.

DER Interconnection and Jurisdiction (1:30 – 2:00)

5. Mr. Andrew Levitt presented additional clarification on “Point of Interconnection” and “Dual Use Facilities” as requested from the previous meeting.

Wholesale DER Market Rules and Requirements

6. Mr. Skyler Marzewski from Monitoring Analytics presented the market monitor's current positions on aspects of wholesale DER participation, including aggregation and energy market offers. The proposals presented are preliminary and were presented with hopes to gain feedback from stakeholders.
7. Mr. Levitt presented considerations and draft solution options for wholesale DER co-located with Demand Response. The presentation provided additional comments on wholesale DER co-sited with retail DER and/or with other wholesale DER. Use cases were presented that outline different configurations. This topic will be discussed further and presented again at future meetings.

Wrap-up and Future Agenda Items

8. Mr. Baker commented on future agenda items, including future DER market rules, bringing terms into the WMPA that will make it more of an operational agreement, and non-wholesale DER observability.

Future Meeting Dates

January 5, 2018	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
January 26, 2018 (Education Session)	1:00 p.m. – 3:00 p.m.	WebEx
January 31, 2018	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
March 2, 2018	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
April 25, 2018	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
June 8, 2018	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
June 29, 2018	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
July 30, 2018	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
August 27, 2018	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
October 4, 2018	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
October 31, 2018	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
November 30, 2018	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx

Attendance

Attendees	Company	Sector
Scott Baker (Facilitator)	PJM Interconnection, LLC	Not Applicable
Cheryl Mae Velasco (Secretary)	PJM Interconnection, LLC	Not Applicable
Drew Adams	A.F. Mensah, Inc.	Other Supplier
Katherine Hamilton	AEM Alliance	Not Applicable
Ed Achaab	AEP Energy Partners, Inc.	Other Supplier
Prashant Kansal	AEP Ohio Transmission Company, Inc.	Transmission Owner
Kristin Rothery	American Municipal Power, Inc.	Electric Distributor
Kent Feliks	Appalachain Power Company	Transmission Owner
Brock Ondayko	Appalachain Power Company	Transmission Owner
Rehan Gilani	Consolidated Edison Energy, Inc.	Other Supplier
Bruce Campbell	Cpower	Other Supplier
Carl Johnson	Customized Energy Solutions, Ltd.*	Not Applicable

Jonathan Sasser	Customized Energy Solutions, Ltd.*	Not Applicable
John Horstmann	Dayton Power & Light Company (The)	Transmission Owner
Joseph DeLosa	DE Public Service Commission	Not Applicable
Marjorie Philips	Direct Energy Business, LLC	Other Supplier
Connie Lowe	Dominion Virginia Power	Transmission Owner
William Jett	Duke Energy Business Services LLC	Transmission Owner
John Sturgeon	Duke Energy Carolinas, LLC	Other Supplier
Christin Domian	Duquesne Light Company	Transmission Owner
John Peoples	Duquesne Light Company	Transmission Owner
Alex Rosenblatt	Duquesne Light Company	Transmission Owner
Chuck Dugan	East Kentucky Power Cooperative, Inc.	Transmission Owner
Katie Guerry	EnerNOC, Inc.	Other Supplier
Michael Lee	Federal Energy Regulatory Commission (The)	Not Applicable
Jim Benchek	FirstEnergy Solutions Corp.	Transmission Owner
Martin Bolan	FirstEnergy Solutions Corp.	Transmission Owner
Justin Price	FirstEnergy Solutions Corp.	Transmission Owner
Jon Schneider	FirstEnergy Solutions Corp.	Transmission Owner
Elta Kolo	Greentech Media	Not Applicable
Tom Hyzinski	GT Power Group	Not Applicable
David Pratzon	GT Power Group	Not Applicable
Jeffrey Whitehead	GT Power Group	Not Applicable
John Webster	Icetec.com, Inc.	Other Supplier
David Mabry	McNees Wallace & Nurick LLC	Not Applicable
Skyler Marzewski	Monitoring Analytics	Not Applicable
Brett Feldman	Navigant Consulting, Inc.	Not Applicable
David Brown	New Jersey Board of Public Utilities	Not Applicable
George Kogut	New York Power Authority	Other Supplier
Amber Williams	New York State Electric & Gas Corporation	Other Supplier
Robert Beadle	North Carolina Electric Membership Corporation	Electric Distributor
Susan Covino	Not Applicable	Not Applicable
Yohannes Mariam	Office of the Peoples Counsel for the D.C.	End User Customer
Bruce Rimmel	Ohio Edison Company (ATSI CSP)	Transmission Owner
Adrien Ford	Old Dominion Electric Cooperative	Electric Distributor
Scott Baker	PJM Interconnection, LLC	Not Applicable
Danielle Croop	PJM Interconnection, LLC	Not Applicable
Eric Endress	PJM Interconnection, LLC	Not Applicable
Janell Fabiano	PJM Interconnection, LLC	Not Applicable
Andy Ford	PJM Interconnection, LLC	Not Applicable
David Kimmel	PJM Interconnection, LLC	Not Applicable
Andrew Levitt	PJM Interconnection, LLC	Not Applicable



Meeting Minutes

Glenn Long	PJM Interconnection, LLC	Not Applicable
Chenchao Lu	PJM Interconnection, LLC	Not Applicable
Joseph Mulhern	PJM Interconnection, LLC	Not Applicable
Masha Nyemko	PJM Interconnection, LLC	Not Applicable
Steven Pincus	PJM Interconnection, LLC	Not Applicable
Natalie Tacka	PJM Interconnection, LLC	Not Applicable
Steve Hilaski	Potomac Electric Power Company	Electric Distributor
Scott Razze	Potomac Electric Power Company	Electric Distributor
Mike Colby	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Frank Richardson	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
David Ellis	Public Service Electric & Gas Company	Transmission Owner
Harry Uniman	Public Service Electric & Gas Company	Transmission Owner
Debbie Gebolys	Public Utilities Commission of Ohio (The)	Not Applicable
Betty Watson	SolarCity	Not Applicable
George Beam	Talen Energy Marketing, LLC	Generation Owner
Kenneth Foladare	Tangibl	Not Applicable
Cynthia Kinser	Tennessee Department of Agriculture	Not Applicable
Joshua Walters	Unknown	Not Applicable
Robert King	Whisker Labs	Not Applicable
Eric Winkler	Winkler Energy Consulting	Not Applicable
Angela Fox	Wylan Energy, L.L.C.	Not Applicable

Author: Cheryl Mae Velasco

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