

Distributed Energy Resources Subcommittee
PJM Conference and Training Center
October 31, 2018
9:00 a.m. – 2:00 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. Baker called the meeting to order, reviewed the agenda and asked for amendments to the agenda.
2. Mr. Gledhill reviewed meeting participation guidelines and the minutes from the October 4th meeting of the Distributed Energy Resources Subcommittee. In-room attendance was taken and teleconference attendance was taken offline from the list of WebEx attendees.
3. Mr. Baker reviewed the DERS work plan.
4. Joe Mulhern, PJM, provided a brief informational update on the status of the BTMG observability data collection process. This is currently under discussion at the System Operations Subcommittee – Transmission.

Wholesale DER Interconnection

5. Mr. Baker reviewed interests captured at the last meeting and discussed how they were grouped.
6. Stakeholders continued the Consensus Based Issue Resolution process by identifying design components and solution options. Additional design components were added and PJM will post the updated matrix for further discussion at the November 30 meeting.
7. Andrew Levitt, PJM, provided an update on the state interconnection policy analysis that was presented at the last meeting, based on comments received. PJM plans to add more states and additional detail for discussion at a future meeting.

Wholesale Market Participation Agreements (WMPA) – Operational Requirements

8. Jim Burlew, PJM, addressed legal issues around including operational requirements, such as primary frequency response, in the WMPA. This will continue to be discussed at a future meeting..

Wholesale DER Market Rules (11:15 – 12:00; 12:45 – 1:30)

9. Skyler Marzewski, Monitoring Analytics, presented on the co-location of Demand Response and Generation.
10. Pete Langbein, PJM, reviewed the DR Status Quo in the solutions matrix for customers that have both Demand Response and Generation at the same site providing ancillary services. PJM will next move

to presenting manual language for further discussion.

Wrap-up – Action items, Future Agenda, and Closing Remarks

11. Mr. Baker closed the meeting by reviewing action items and previewing topics for the next meeting.

Future Meeting Dates

November 15, 2018	2:00 p.m. – 4:00 p.m.	PJM Conference & Training Center/ WebEx
November 30, 2018	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
January 14, 2019	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
February 4, 2019	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
March 4, 2019	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
April 15, 2019	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
May 20, 2019	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
June 10, 2019	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
July 15, 2019	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
August 14, 2019	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
September 9, 2019	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
October 7, 2019	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
November 18, 2019	9:00 a.m. – 3:00 p.m.	PJM Conference & Training Center/ WebEx
December 16, 2019	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
Andrew Gledhill (Secretary)	PJM Interconnection, LLC	Not Applicable
Drew Adams	A.F. Mensah, Inc.	Other Supplier
Tom Rutigliano	Achieving Equilibrium LLC	Other Supplier
Chris Norton	American Municipal Power, Inc.	Electric Distributor
Kristin Rothey	American Municipal Power, Inc.	Electric Distributor
Jim Benchek	American Transmission Systems, Inc.	Transmission Owner
Brock Ondayko	Appalachian Power Company	Transmission Owner
Terry Gates	Appalachian Power Company	Transmission Owner
Rehan Gilani	ConEdison Energy, Inc.	Other Supplier
Guy Filomena	Customized Energy Solutions, Ltd.	Not Applicable
Carl Johnson	Customized Energy Solutions, Ltd.*	Not Applicable
Jonathan Sasser	Customized Energy Solutions, Ltd.*	Not Applicable
Michael Natrin	Delmarva Power & Light Company	Electric Distributor
Bram Wilson	Diamond State Generation Partners, LLC	Generation Owner
Jim Davis	Dominion Energy Marketing, Inc.	Generation Owner
Connie Lowe	Dominion Virginia Power	Not Applicable
Jorge Aguilera	Duke Energy Business Services LLC	Transmission Owner
Ken Jennings	Duke Energy Business Services LLC	Generation Owner
Corey Stancombe	Duke Energy Kentucky, Inc.	Transmission Owner
Nancy Connelly	Duke Energy Ohio, Inc.	Transmission Owner
Bryan Garnett	Duke Energy Ohio, Inc.	Transmission Owner

Uchenna Nwaichi	Duke Energy Ohio, Inc.	Transmission Owner
Janessa Kent	Duquesne Light Company	Transmission Owner
John Peoples	Duquesne Light Company	Transmission Owner
Alex Rosenblatt	Duquesne Light Company	Transmission Owner
John Brodbeck	EDP Renewables North America, LLC	Other Supplier
John Brodbeck	EDP Renewables North America, LLC	Other Supplier
Malcolm Ainspan	Energy Curtailment Specialists, Inc.	Other Supplier
Bruce Campbell	EnergyConnect, Inc.	Other Supplier
Nathan Charles	Enphase Energy	Not Applicable
Chad Singer	Fellon McCord	Not Applicable
Lou D'Alessandris	FirstEnergy Solutions Corp.	Transmission Owner
Justin Price	FirstEnergy Solutions Corp.	Transmission Owner
Jed Trott	Galt Power Inc.	Other Supplier
Sean Baur	GlidePath Development LLC	Not Applicable
Tom Hyzinski	GT Power Group	Not Applicable
David Pratzon	GT Power Group	Not Applicable
John Webster	Icetec.com, Inc.	Other Supplier
Jay Marhoefer	Intelligent Generation LLC	Other Supplier
Marc Thrum	Intelligent Generation LLC	Other Supplier
Megan Wisersky	Madison Gas & Electric Company	Other Supplier
David Mabry	McNees Wallace & Nurick LLC	Not Applicable
Christin Domian	Mitsubishi Electric Power Products Inc.	Not Applicable
Skyler Marzewski	Monitoring Analytics, LLC	Not Applicable
George Kogut	New York Power Authority	Other Supplier
David Brown	NJ Board of Public Utilities	Not Applicable
Brian Hamilton	North American Electric Reliability Corporation	Not Applicable
Courtney Lang	NRG Power Marketing LLC	Generation Owner
Christopher Wehr	Ohio Edison Company	Transmission Owner
Madalyn Beban	PJM Interconnection, LLC	Not Applicable
Glen Boyle	PJM Interconnection, LLC	Not Applicable
Troy Cawley	PJM Interconnection, LLC	Not Applicable
Joseph Ciabattoni	PJM Interconnection, LLC	Not Applicable
Danielle Croop	PJM Interconnection, LLC	Not Applicable
Michael Del Viscio	PJM Interconnection, LLC	Not Applicable
Thomas DeVita	PJM Interconnection, LLC	Not Applicable
David Egan	PJM Interconnection, LLC	Not Applicable
Damon Fereshetian	PJM Interconnection, LLC	Not Applicable
Andy Ford	PJM Interconnection, LLC	Not Applicable
Suzanne Glatz	PJM Interconnection, LLC	Not Applicable
Andrew Gledhill	PJM Interconnection, LLC	Not Applicable
Chantal Hendrzak	PJM Interconnection, LLC	Not Applicable
Rebecca Hilderbrand	PJM Interconnection, LLC	Not Applicable

Imran Khan	PJM Interconnection, LLC	Not Applicable
Pete Langbein	PJM Interconnection, LLC	Not Applicable
Joe Mulhern	PJM Interconnection, LLC	Not Applicable
Keyur Patel	PJM Interconnection, LLC	Not Applicable
John Reynolds	PJM Interconnection, LLC	Not Applicable
Ken Schuyler	PJM Interconnection, LLC	Not Applicable
Henry Thomas	PJM Interconnection, LLC	Not Applicable
Cheryl Mae Velasco	PJM Interconnection, LLC	Not Applicable
Laura Walter	PJM Interconnection, LLC	Not Applicable
Stanley Williams	PJM Interconnection, LLC	Not Applicable
Marj Garbini	Potomac Electric Power Company	Electric Distributor
Scott Razze	Potomac Electric Power Company	Electric Distributor
George Beam	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
James Rouland	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
William Sharkazy III	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Gary Greiner	PSEG Energy Resources and Trade LLC	Other Supplier
Kriti Dawadi	Public Service Electric & Gas Company	Transmission Owner
David Ellis	Public Service Electric & Gas Company	Transmission Owner
Albert Grisolia	Public Service Electric & Gas Company	Transmission Owner
Garan Gunn	Public Service Electric & Gas Company	Transmission Owner
Alex Stern	Public Service Electric & Gas Company	Transmission Owner
Christopher Mahila	Public Utilities Commission of Ohio (The)	Not Applicable
Tom Hoatson	Riverside Generating, LLC	Other Supplier
Roleto Mangonon	Rockland Electric Company	Transmission Owner
Kenneth Foladare	Tangibl	Not Applicable
Edrissa Cham	Tradewind Energy, Inc.	Not Applicable
Imelda Foley	University of Delaware	Not Applicable
Chad Dixon	Viridity Energy, Inc.	Other Supplier
Eric Winkler	Winkler Energy Consulting	Transmission Owner

Author: Andrew Gledhill

Antitrust:

You may not discuss any topics that violate, or that might appear to violate, the antitrust laws including but not limited to agreements between or among competitors regarding prices, bid and offer practices, availability of service, product design, terms of sale, division of markets, allocation of customers or any other activity that might unreasonably restrain competition. If any of these items are discussed the chair will re-direct the conversation. If the conversation still persists, parties will be asked to leave the meeting or the meeting will be adjourned.

Code of Conduct:

As a mandatory condition of attendance at today's meeting, attendees agree to adhere to the PJM Code of Conduct as detailed in PJM Manual M-34 section 4.5, including, but not limited to, participants' responsibilities and rules regarding the dissemination of meeting discussion and materials.

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