

Distributed Energy Resources Subcommittee
PJM Conference and Training Center
March 26, 2018
9:00 a.m. – 3:00 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, and reviewed the agenda.
2. Mr. Gledhill reviewed meeting participation guidelines. Attendance was taken in the room and WebEx attendance was taken offline. Minutes from the March 2nd meeting of the Distributed Energy Resources Subcommittee were reviewed.

Polling Review

3. Mr. Baker reviewed results from a recent stakeholder poll on various solution components that had been discussed. The group discussed the results and considered next steps.

Education

4. Mr. David Egan, PJM, discussed FERC Order 807, which concerns multiple entities behind a single point of interconnection. This issue will be primarily discussed at the Planning Committee.
5. Mr. Andrew Powers and Mr. Jim Sherman, PSEG, discussed technical considerations regarding the “pigtail” configuration through their experience with their Solar 4 All[®] Pilot Program.

Solution Options Review

6. Mr. Tom Rutigliano, representing Ictec, discussed an accounting proposal for wholesale energy storage that has the ability to directly serve load, either behind a customer's meter or via “pigtail”. Through discussion, it was requested that there be further clarification of FERC Order 841.

Non-Wholesale DER Observability

- Mr. Pete Langbein, PJM, and stakeholders began development of a solutions matrix for this issue. The group gathered interests and began considering design components, and solution options.

DER Inverter Ride Through Update

- Mr. Andrew Levitt discussed results from a workshop organized by PJM on the IEEE 1547–2018 standard that requires voltage and frequency ride through from inverter-based resources. An additional workshop will be planned for the Summer.

Wrap-up and Future Agenda Items

- Mr. Baker summarized action items and discussed agenda items for the next meeting.

Future Meeting Dates

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
Andrew Gledhill (Secretary)	PJM Interconnection, LLC	Not Applicable
Prashant Kansal	AEP Ohio Transmission Company, Inc.	Transmission Owner
David Mulcahy	Affirmed Energy LLC	Other Supplier
Ryan Dolan	American Municipal Power, Inc.	Electric Distributor
Kristin Rothery	American Municipal Power, Inc.	Electric Distributor
Brock Ondayko	Appalachain Power Company	Transmission Owner
David Scarpignato	Calpine Energy Services, L.P.	Generation Owner
Barry Trayers	Citigroup Energy, Inc.	Other Supplier
Rehan Gilani	Consolidated Edison Energy, Inc.	Other Supplier
Brian Wilkie	Consolidated Edison Solutions, Inc	Other Supplier
Bruce Campbell	Cpower	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
Patrick Shoop	Customized Energy Solutions, Ltd.*	Not Applicable
John Horstmann	Dayton Power & Light Company (The)	Transmission Owner



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Joseph DeLosa	DE Public Service Commission	Not Applicable
Michael Natrin	Delmarva Power & Light Company	Electric Distributor
David Hastings	Dhast Co	Not Applicable
Marjorie Philips	Direct Energy Business, LLC	Other Supplier
James Davis	Dominion Energy Marketing, Inc.	Generation Owner
Connie Lowe	Dominion Virginia Power	Transmission Owner
Christin Domian	Duquesne Light Company	Transmission Owner
John Peoples	Duquesne Light Company	Transmission Owner
Alex Rosenblatt	Duquesne Light Company	Transmission Owner
Tonja Wicks	Duquesne Light Company	Transmission Owner
Tom Rutigliano	Earth Networks	Other Supplier
Chuck Dugan	East Kentucky Power Cooperative, Inc.	Transmission Owner
Malcolm Ainspan	Energy Curtailment Specialists, Inc.	Other Supplier
Katie Guerry	EnerNOC, Inc.	Other Supplier
Sharon Midgley	Exelon Business Services Company, LLC	Transmission Owner
Chad Singer	Fellon McCord	Not Applicable
Martin Bolan	FirstEnergy Solutions Corp.	Transmission Owner
Jon Schneider	FirstEnergy Solutions Corp.	Transmission Owner
Ed Stein	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
Stacy Sherwood	Maryland Public Service Commission	Not Applicable
David Mabry	McNees Wallace & Nurick LLC	Not Applicable
Thomas Weeks	Michigan Public Power Agency	Generation Owner
Erik Hanser	Michigan Public Service Commission	Not Applicable
Ron Slagel	MICS	Not Applicable
Skyler Marzewski	Monitoring Analytics	Not Applicable
David Brown	New Jersey Board of Public Utilities	Not Applicable
Robert Beadle	North Carolina Electric Membership Corporation	Electric Distributor
Brian Kauffman	NRG Curtailment Solutions	Other Supplier
Bruce Rummel	Ohio Edison Company (ATSI CSP)	Transmission Owner
Adrien Ford	Old Dominion Electric Cooperative	Electric Distributor
Jenjira Knernschiold	Old Dominion Electric Cooperative	Electric Distributor
Katie Treadway	One Energy, LLC	Not Applicable
Gregory Carmean	OPSI	Not Applicable
Eric Matheson	Pennsylvania Public Utility Commission	Not Applicable
Murty Bhavaraju	PJM Interconnection, LLC	Not Applicable
Joe Ciabattoni	PJM Interconnection, LLC	Not Applicable



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Suzanne Coyne	PJM Interconnection, LLC	Not Applicable
Danielle Croop	PJM Interconnection, LLC	Not Applicable
Mary Ellen Driscoll	PJM Interconnection, LLC	Not Applicable
David Egan	PJM Interconnection, LLC	Not Applicable
Andy Ford	PJM Interconnection, LLC	Not Applicable
Gabrielle Genuario	PJM Interconnection, LLC	Not Applicable
Suzanne Glatz	PJM Interconnection, LLC	Not Applicable
Chantal Hendrzak	PJM Interconnection, LLC	Not Applicable
David Kimmel	PJM Interconnection, LLC	Not Applicable
Pete Langbein	PJM Interconnection, LLC	Not Applicable
Matthew LaRocque	PJM Interconnection, LLC	Not Applicable
Andrew Levitt	PJM Interconnection, LLC	Not Applicable
Joseph Mulhern	PJM Interconnection, LLC	Not Applicable
Masha Nyemko	PJM Interconnection, LLC	Not Applicable
Jack O'Neill	PJM Interconnection, LLC	Not Applicable
Steven Pincus	PJM Interconnection, LLC	Not Applicable
John Reynolds	PJM Interconnection, LLC	Not Applicable
Jack Thomas	PJM Interconnection, LLC	Not Applicable
Elizabeth Trinkle	PJM Interconnection, LLC	Not Applicable
Laura Walter	PJM Interconnection, LLC	Not Applicable
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
James Stover	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Ricardo Galarza	PSM Consulting	Not Applicable
David Ellis	Public Service Electric & Gas Company	Transmission Owner
Rich Marinelli	Public Service Electric & Gas Company	Transmission Owner
Andrew Powers	Public Service Electric & Gas Company	Transmission Owner
Jim Sherman	Public Service Electric & Gas Company	Transmission Owner
Alex Stern	Public Service Electric & Gas Company	Transmission Owner
Tom Hoatson	Riverside Generating, LLC	Other Supplier
George Beam	Talen Energy Marketing, LLC	Generation Owner
Kenneth Folandare	Tangibl	Not Applicable
Cynthia Kinser	Tennessee Department of Agriculture	Not Applicable
Syed Ahmad	The Federal Energy Regulatory Commission	Not Applicable
Adam Weber	Union Electric Company d/b/a Ameren Missouri	Other Supplier

Author: Andrew Gledhill