

Special MIC – Distributed Energy Resources (DER)
PJM Conference and Training Center
April 10, 2017
9:30 a.m. – 3:30 p.m. EST

Administration

1. Mr. Baker called the meeting to order.
2. Mr. Gledhill will reviewed meeting participation guidelines and the minutes from the March 2nd meeting. Attendance was taken offline from a combination of in-person and WebEx attendees.
3. Mr. Baker reviewed the Work Plan, reviewed the agenda, and asked for amendments to the agenda.

Station Power DER

4. Mr. Levitt provided a recap of a recent PJM site visit to a solar/storage facility. The example was used to discuss the accounting for battery charging under Station Power rules, and clarification of rules related to these types of facilities. Through discussion, additional clarity was asked for on the project's metering configuration.

PJM Report on Distributed Energy Resources

5. Mr. Langbein provided a walk-through of a recently published report on Distributed Energy Resources that participate in PJM Markets as Demand Response. The report can be found [here](#).

Consensus Based Issue Resolution Process

6. Mr. Baker led a review of the solutions matrix with stakeholders, focusing discussion on existing and new solution options. This discussion will continue at the group's next meeting.

Planning Committee Update

7. Mr. Berner reviewed items related to DER that were sent to the Planning Committee for discussion.

Discussion of Storage Voltage Distribution System Impacts

8. Mr. Levitt led a discussion on the distribution impacts of storage resources participating in PJM markets. The suggestion was made to see if this should incorporated into the DR registration process and whether the Demand Response Subcommittee should be consulted

Stakeholder Case Studies

9. Mr. Adams, AF Mensah, presented a project case study regarding distributed and behind-the-meter battery storage, including discussion of metering configuration and operation. The purpose of this case study was to discuss market rules and interconnection procedures today, and test the application of solutions options in the matrix this type of a project.

10. Mr. Harripersad, True Green Capital, presented on experience with the small generator interconnection process through discussion of their solar projects in the PJM territory.

Wrap-up and Future Agenda Items

11. Mr. Baker summarized action items, asked stakeholders for future discussion topics, and brought the meeting to a close.

Future Meeting Dates

May 1, 2017	9:30 a.m. – 3:30 p.m.	PJM Conference & Training Center/ WebEx
May 19, 2017	1:00 p.m. – 4:00 p.m.	PJM Conference & Training Center/ WebEx
June 1, 2017	9:00 a.m. – 12:00 p.m.	PJM Conference & Training Center/ WebEx
June 20, 2017	1:00 p.m. – 4:00 p.m.	PJM Conference & Training Center/ WebEx
July 7, 2017	9:00 a.m. – 12:00 p.m.	PJM Conference & Training Center/ WebEx
August 1, 2017	9:00 a.m. – 12:00 p.m.	PJM Conference & Training Center/ WebEx
August 18, 2017	1:00 p.m. – 4:00 p.m.	PJM Conference & Training Center/ WebEx
August 31, 2017	9:00 a.m. – 12:00 p.m.	PJM Conference & Training Center/ WebEx
September 18, 2017	9:00 a.m. – 12:00 p.m.	PJM Conference & Training Center/ WebEx
October 4, 2017	1:00 p.m. – 4:00 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
Wayne Wittman	A.F. Mensah, Inc.	Other Supplier
Benjamin Lowe	Alevo	Not Applicable
Ryan Jones	Allegheny Electric Cooperative, Inc.	Electric Distributor
Chris Norton	American Municipal Power, Inc.	Electric Distributor
Kent Feliks	Appalachain Power Company	Transmission Owner
Brock Ondayko	Appalachain Power Company	Transmission Owner
Kevin Kilgallen	Avangrid Renewables, LLC	Generation Owner
Marek Kaczanowski	Baltimore Gas and Electric Company	Transmission Owner
James Jablonski	Borough of Butler, Butler Electric Division	Electric Distributor
David Scarpignato	Calpine Energy Services, L.P.	Generation Owner
Tom Hoatson	Carroll County Energy LLC	Other Supplier
Bruce Campbell	Cpower	Other Supplier
Mike Berlinski	Customized Energy Solutions, Ltd.*	Not Applicable
Guy Filomena	Customized Energy Solutions, Ltd.*	Not Applicable
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
John Farber	DE Public Service Commission	Not Applicable

Jeffrey Whitehead	Direct Energy Business Marketing, LLC	Other Supplier
Jeff Currier	Dominion Virginia Power	Not Applicable
Randi Heise	Dominion Virginia Power	Transmission Owner
Abhijit Rajan	Dominion Virginia Power	Transmission Owner
Emily Wilmoth	Dominion Virginia Power	Transmission Owner
William Jett	Duke Energy Business Services LLC	Transmission Owner
Bryan Garnett	Duke Energy Ohio, Inc.	Transmission Owner
Christin Domian	Duquesne Light Company	Transmission Owner
John Peoples	Duquesne Light Company	Transmission Owner
Thomas Rutigliano	Earth Networks	Other Supplier
Chuck Dugan	East Kentucky Power Cooperative, Inc.	Transmission Owner
John Brodbeck	EDP Renewables North America, LLC	Other Supplier
Katie Guerry	EnerNOC, Inc.	Other Supplier
Sharon Midgley	Exelon Generation Co., LLC	Generation Owner
Jim Benchek	FirstEnergy Solutions Corp.	Transmission Owner
David Marton	FirstEnergy Solutions Corp.	Transmission Owner
Jon Schneider	FirstEnergy Solutions Corp.	Transmission Owner
Ed Stein	FirstEnergy Solutions Corp.	Transmission Owner
Chad Wilhite	FirstEnergy Solutions Corp.	Transmission Owner
Richard Ziegler	FirstEnergy Solutions Corp.	Transmission Owner
Michael Borgatti	Gabel and Associates	Not Applicable
Derek Hagaman	GT Power Group	Not Applicable
David Pratzon	GT Power Group	Not Applicable
John Webster	Icetec.com, Inc.	Other Supplier
John Kopinski	ITC Mid-Atlantic Development LLC	Other Supplier
Robert O'Connell	Main Line Electricity Market Consultants	Not Applicable
Morris Schreim	Maryland Public Service Commission	Not Applicable
David Mabry	McNees Wallace & Nurick LLC	Not Applicable
Brian Hamilton	New Jersey Board of Public Utilities	Not Applicable
Amber Williams	New York State Electric & Gas Corporation	Other Supplier
Jung Suh	Noble Americas Energy Solutions LLC	Other Supplier
Robert Beadle	North Carolina Electric Membership Corporation	Electric Distributor
James Manning	North Carolina Electric Membership Corporation	Electric Distributor
Neal Fitch	NRG Power Marketing LLC	Generation Owner
Yohannes Mariam	Office of the Peoples Counsel for the D.C.	End User Customer
Bruce Rimmel	Ohio Edison Company (ATSI CSP)	Transmission Owner
Dave Anders	PJM Interconnection, LLC	Not Applicable
Murty Bhavaraju	PJM Interconnection, LLC	Not Applicable
Rich Brown	PJM Interconnection, LLC	Not Applicable
Joe Ciabattoni	PJM Interconnection, LLC	Not Applicable



Draft Minutes

Danielle Croop	PJM Interconnection, LLC	Not Applicable
Bridgid Cummings	PJM Interconnection, LLC	Not Applicable
Zhenyu Fan	PJM Interconnection, LLC	Not Applicable
Chantal Hendrzak	PJM Interconnection, LLC	Not Applicable
Natasha Holter	PJM Interconnection, LLC	Not Applicable
Eric Hsia	PJM Interconnection, LLC	Not Applicable
Pete Langbein	PJM Interconnection, LLC	Not Applicable
Andrew Levitt	PJM Interconnection, LLC	Not Applicable
Erich Mauroschadt	PJM Interconnection, LLC	Not Applicable
Esrick McCartha	PJM Interconnection, LLC	Not Applicable
Sean McNamara	PJM Interconnection, LLC	Not Applicable
Masha Nyemko	PJM Interconnection, LLC	Not Applicable
Keyur Patel	PJM Interconnection, LLC	Not Applicable
David Picarelli	PJM Interconnection, LLC	Not Applicable
Ken Schuyler	PJM Interconnection, LLC	Not Applicable
Steven Shparber	PJM Interconnection, LLC	Not Applicable
Mike Ward	PJM Interconnection, LLC	Not Applicable
Glenn Weiss	PJM Interconnection, LLC	Not Applicable
Mark Marsan	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
Rory Sweeney	RTO Insider	Not Applicable
Michele Greening	Talen Energy Marketing, LLC	Generation Owner
Tom Hyzinski	Talen Energy Marketing, LLC	Generation Owner
Barbara Scoglietti	Tangent Energy Solutions, Inc.	Other Supplier
Chris Hendrix	Texas Retail Energy, LLC	Other Supplier
Jim Fort	The Energy Authority	Other Supplier
Wufan Jia	The Mobility House	Other Supplier
Adesh Harripersad	True Green Capital	Not Applicable
Pat Hayes	Union Electric Company d/b/a Ameren Missouri	Other Supplier
William Birnel	West AR energy	Not Applicable

Author: Andrew Gledhill

Provide feedback on the progress of this group: [Facilitator Feedback Form](#)
Visit learn.pjm.com, an easy-to-understand resource about the power industry and PJM's role.