

Distributed Energy Resources Subcommittee
PJM Conference and Training Center
January 31, 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. Several items were shuffled around in the agenda to accommodate presenters' schedules.
2. Mr. Gledhill reviewed meeting participation guidelines. Attendance was taken in the room and WebEx attendance was taken offline. Minutes from the January 5th meeting of the Distributed Energy Resources Subcommittee were reviewed. Attendance was taken in the room and WebEx attendance was taken offline.

Wholesale DER Market Rules (9:15 – noon; 1:00 – 1:45)

3. Mr. Andrew Levitt, PJM, presented on a proposed method to measure retail vs. wholesale stored energy for primarily front of the meter resources with energy storage that occasionally serve load. Stakeholders provided feedback and requests for additional clarity. PJM will enter details into the solutions matrix.
4. Siva Josyula, Monitoring Analytics, provided details on the Three Pivotal Supplier test and cost-based offers.
5. Mr. Tom Rutigliano, representing Ictec, presented an energy market example related to their proposal on market rules for combined wholesale DER and load response resources. Stakeholders requested additional clarity on the accounting methodology.
6. Mr. Levitt, PJM, presented PJM's perspective on concerns associated with current PJM proposal to separate demand response resources and W-DER at the same site into distinct market resources, as well as possible remedies. Stakeholders provided feedback and requested additional detail on impacts to different involved parties at a future meeting.

Non-Wholesale DER

7. Mr. Langbein, PJM, presented proposed changes to gain visibility of non-wholesale DER resources within the PJM footprint.

Updates

- Ms. Danielle Croop provided an update on the Primary Frequency Response Senior Task Force and discussed potential new primary frequency response requirements for wholesale DER resources in PJM. These requirements will be documented in PJM Manual M14B: PJM Region Transmission Planning Process.

Wrap-up and Future Agenda Items

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

Future Meeting Dates

March 2, 2018	9:00 a.m. – 12:00 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
Andrew Gledhill (Secretary)	PJM Interconnection, LLC	Not Applicable
Drew Adams	A.F. Mensah, Inc.	Other Supplier
Ed Achaab	AEP Energy Partners, Inc.	Other Supplier
Toby Hu	Ameren Corporation	Not Applicable
Ryan Dolan	American Municipal Power, Inc.	Electric Distributor
Chris Norton	American Municipal Power, Inc.	Electric Distributor
Kristin Rothey	American Municipal Power, Inc.	Electric Distributor
Kent Feliks	Appalachian Power Company	Transmission Owner
Brock Ondayko	Appalachian Power Company	Transmission Owner
David Canter	Appalachian Power Company	Transmission Owner
Kevin Kilgallen	Avangrid Renewables, LLC	Generation Owner
Brian Vayda	Borough of Park Ridge, NJ	Electric Distributor
David Scarpignato	Calpine Energy Services, L.P.	Generation Owner
Greg Poulos	CAPS	Not Applicable
Maya Prica	Case Western Reserve University	Not Applicable
Rehan Gilani	Consolidated Edison Energy, Inc.	Other Supplier
Brian O'Boyle	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
Joseph DeLosa	DE Public Service Commission	Not Applicable
David Hastings	Dhast Co	Not Applicable
Peter Cavan	Direct Energy Business Marketing, LLC	Other Supplier
James Davis	Dominion Energy Marketing, Inc.	Generation Owner
Christin Domian	Duquesne Light Company	Transmission Owner
Alex Rosenblatt	Duquesne Light Company	Transmission Owner
Chuck Dugan	East Kentucky Power Cooperative, Inc.	Transmission Owner
Richard Drom	Eckert Seamans	Not Applicable
John Brodbeck	EDP Renewables North America, LLC	Other Supplier
Malcolm Ainspan	Energy Curtailment Specialists, Inc.	Other Supplier
Katie Guerry	EnerNOC, Inc.	Other Supplier
Sharon Midgley	Exelon Business Services Company, LLC	Transmission Owner
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
Ed Stein	FirstEnergy Solutions Corp.	Transmission Owner
Christopher Wehr	FirstEnergy Solutions Corp.	Transmission Owner
Jed Trott	Galt Power Inc.	Other Supplier
Tom Hyzinski	GT Power Group	Not Applicable
David Pratzon	GT Power Group	Not Applicable
Jeffrey Whitehead	GT Power Group	Not Applicable
Mike Gahimer	IN Office of Utility Consumer Counselor	End User Customer
Matthew McCaffree	Itron	Not Applicable
Megan Wisersky	Madison Gas & Electric Co	Other Supplier
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
Siva Josyula	Monitoring Analytics	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

Jung Suh	Noble Americas Energy Solutions LLC	Other Supplier
Laurie Wiegand-Jackson	North America Power Partners LLC	Other Supplier
Brian Hamilton	North American Electric Reliability Corporation	Not Applicable
Robert Beadle	North Carolina Electric Membership Corporation	Electric Distributor
Brian Kauffman	NRG Curtailment Solutions	Other Supplier
Courtney Lang	NRG Curtailment Solutions	Other Supplier
Frederick Heinle	Office of the Peoples Counsel for the D.C.	End User Customer
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
Jenjira Knernschild	Old Dominion Electric Cooperative	Electric Distributor
Gregory Carmean	OPSI	Not Applicable
Imelda Foley	Other	Not Applicable
Dave Anders	PJM Interconnection, LLC	Not Applicable
Murty Bhavaraju	PJM Interconnection, LLC	Not Applicable
Joe Ciabattoni	PJM Interconnection, LLC	Not Applicable
Danielle Croop	PJM Interconnection, LLC	Not Applicable
Michael Del Viscio	PJM Interconnection, LLC	Not Applicable
Mary Ellen Driscoll	PJM Interconnection, LLC	Not Applicable
Theresa Esterly	PJM Interconnection, LLC	Not Applicable
Andy Ford	PJM Interconnection, LLC	Not Applicable
Craig Glazer	PJM Interconnection, LLC	Not Applicable
Eric Hsia	PJM Interconnection, LLC	Not Applicable
David Kimmel	PJM Interconnection, LLC	Not Applicable
Pete Langbein	PJM Interconnection, LLC	Not Applicable
Andrew Levitt	PJM Interconnection, LLC	Not Applicable
Kanning Li	PJM Interconnection, LLC	Not Applicable
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
Jack O'Neill	PJM Interconnection, LLC	Not Applicable
Melissa Pilon	PJM Interconnection, LLC	Not Applicable
Steven Pincus	PJM Interconnection, LLC	Not Applicable
Ken Schuyler	PJM Interconnection, LLC	Not Applicable
Natalie Tacka	PJM Interconnection, LLC	Not Applicable
Jack Thomas	PJM Interconnection, LLC	Not Applicable
Laura Walter	PJM Interconnection, LLC	Not Applicable
Marjorie Garbini	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
James Stover	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Gary Greiner	PSEG Energy Resources and Trade LLC	Transmission Owner
David Ellis	Public Service Electric & Gas Company	Transmission Owner
Al Grisolia	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
Betty Watson	SolarCity	Not Applicable
George Beam	Talen Energy Marketing, LLC	Generation Owner
Brad Swalwell	Tangent Energy Solutions, Inc.	Other Supplier
Kenneth Foladare	Tangibl	Not Applicable
Adam Weber	Union Electric Company d/b/a Ameren Missouri	Other Supplier
Susan Covino	Unknown	Not Applicable
Virgil Nunan	Unknown	Not Applicable
Joshua Walters	Unknown	Not Applicable
Eric Winkler	Winkler Energy Consulting	Not Applicable

Author: Andrew Gledhill

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