

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

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|--------------------------------------|-----------------------|---|
| 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 |

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| 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 |



Draft Meeting Minutes

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| 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

Provide feedback on the progress of this group: [Facilitator Feedback Form](#)
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