

DER and Inverter-based Resources Subcommittee

WebEx Only

January 18, 2022

9:00 a.m. – 12:00 p.m. ET

Administration (9:00 – 9:05)


1. Scott Baker opened the meeting and reviewed the agenda.
2. Hamad Ahmed reviewed the meeting participation guidelines. The meeting minutes from January 5th DIRS were approved with 0 objections and 0 abstentions.

Order 2222 – Draft Tariff Language for DER Aggregator Participation Model (9:05 – 11:45)

3. PJM staff provided a final review of the draft Tariff language it intends to file with the FERC on February 1, 2022. The review primarily highlighted modifications made based on stakeholder redline edits and feedback.
 - Thomas DeVita, PJM, discussed changes to the Tariff language from January 5th DIRS noting new definition of Behind the Meter Generation and some minor changes to the other tariff definitions C-D and Operating Agreement definition C-D. Thomas reviewed several other changes to the redline in the Tariff, Attachment K Appendix, section 1.4C and Operating Agreement, Schedule 1, section 1.4C.
 - Danielle Croop, PJM, discussed changes to the RAA schedule 6.2.
 - Thomas DeVita also briefly discussed what to expect after the filing, noting that PJM isn't certain when FERC will make a ruling. Thomas also noted that PJM is likely to request an extended comment period in its filing.

Wrap-up and Action items (11:45 – 12:00)

4. The facilitation team reviewed action items from the meeting and took requests for future agenda items. Scott Baker discussed an agenda item at the next meeting to talk about the DIRS work plan for 2022, including additional discussion areas regarding Order 2222 implementation and coordination efforts.

| Future Meeting Dates and Materials | | | Materials Due to Secretary  | Materials Published |
|------------------------------------|-------------|----------|------------------------------------------------------------------------------------------------------------------|---------------------|
| Date | Time | Location | 5 p.m. | 4 p.m. |
| February 25, 2022 | 9:00 – 4:00 | WebEx | February 16, 2022 | February 22, 2022 |
| March 28, 2022 | 9:00 – 4:00 | WebEx | March 18, 2022 | March 23, 2022 |
| April 29, 2022 | 9:00 – 4:00 | WebEx | April 22, 2022 | April 27, 2022 |
| May 31, 2022 | 9:00 – 4:00 | WebEx | May 23, 2022 | May 26, 2022 |
| June 23, 2022 | 9:00 – 4:00 | WebEx | June 15, 2022 | June 20, 2022 |

Author: Hamad Ahmed

WebEx Meeting Attendance

| Name | Company Name | Sector |
|--------------------|----------------------------------------------------------------|--------------------|
| Hamad Ahmed | PJM Interconnection | None |
| William Allen | Commonwealth Edison Company | Transmission Owner |
| David Anders | PJM Interconnection | None |
| Jeff Baker | PJM Connect | |
| Scott Baker | PJM Interconnection | None |
| George Beam | PPL Elec Utilities Corp dba PPL Utilities (PPL POLR Small C&I) | Transmission Owner |
| Madalyn Beban | PJM Interconnection | None |
| Jim Benchek | FirstEnergy Corporation | |
| Stephen Bennett | PJM Interconnection | None |
| Tyler Berton | AEP Appalachian Transmission Company, Inc. | Transmission Owner |
| Donnie Bielak | PJM Interconnection | None |
| John Borkoski | MD Public Service Commission | |
| Joe Bowring | Monitoring Analytics | |
| Glen Boyle | PJM Interconnection | None |
| Aaron Breidenbaugh | Centrica Business Solutions Optimize, LLC | Other Supplier |
| John Brodbeck | EDP Renewables North America LLC | Generation Owner |
| Michael Bryson | PJM Internal | |
| Chris Callaghan | PJM Interconnection | None |
| Zachary Callen | Illinois Commerce Commission | |
| Bruce Campbell | Enerwise Global Technologies, LLC | Other Supplier |
| David Canter | Appalachian Power Company (AEP Generation) | Transmission Owner |
| Gregory Carmean | Organization of PJM States, Inc. | |
| Rebecca Carroll | PJM Interconnection | None |
| Edrissa Cham | Savion, LLC | |
| Sean Chang | Shell Energy North America (US), L.P. | Other Supplier |
| Yee Hong Chee | MCG Energy Solutions, LLC | None |
| Mahila Christopher | Public Utilities Commission of Ohio | |
| Roseanne Circelli | Public Service Electric & Gas Company | Transmission Owner |
| Chandra Colaresi | Enerwise Global Technologies, LLC | Other Supplier |

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| Nancy Connelly | Duke Energy Ohio, Inc. | Transmission Owner |
| Billy Coyle | Dominion Virginia Power | Transmission Owner |
| Kerinia Cusick | Center for Renewables Integration | |
| Louis D'Alessandris | American Transmission Systems, Inc. | Transmission Owner |
| Elizabeth Davis | PJM Interconnection | None |
| James Davis | Dominion Energy Generation Marketing, Inc. | Generation Owner |
| Joseph DeLosa | New Jersey Board of Public Utilities | |
| Thomas DeVita | PJM Interconnection | None |
| Laura DiNicola | firstenergy | |
| Mamadou Diong | Dominion Virginia Power | Transmission Owner |
| Nicholas Disciullo | PJM Interconnection | None |
| Ryan Dolan | Dayton Power & Light Company (The) (EDC) | Transmission Owner |
| Christin Domian | Duquesne Light Company | Transmission Owner |
| Rick Drom | Rick Drom | |
| Chuck Dugan | East Kentucky Power Cooperative, Inc. | Transmission Owner |
| Nicolae Dumitriu | PJM Interconnection | None |
| Subbarao Eedupuganti | PJM Interconnection | |
| Rachel Elkins | American Transmission Systems, Inc. | Transmission Owner |
| David Ellis | Public Service Electric & Gas Company | Transmission Owner |
| Theresa Esterly | PJM Interconnection | None |
| zhenyu fan | PJM Interconnection | None |
| Guy Filomena | Customized Energy Solutions, Ltd. | None |
| Kenneth Foladare | Geenex Solar LLC | Other Supplier |
| Sheila Foley | PJM Interconnection | None |
| Adrien Ford | Old Dominion Electric Cooperative | Electric Distributor |
| Denise Foster Cronin | East Kentucky Power Cooperative, Inc. | Transmission Owner |
| Darrell Frogg | PJM Interconnection | None |
| Christian Fuess | PBF Power Marketing, LLC | End-Use Customer |
| Peter Fuller | Autumn Lane Energy Consulting LLC | |
| Bryan Garnett | Duke Energy Ohio, Inc. | Transmission Owner |

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| Jill Gates | PJM Interconnection | |
| | | Transmission Owner |
| Terry Gates | Appalachian Power Company (AEP Generation) | |
| | | Other Supplier |
| Rehan Gilani | ConEdison Energy, Inc. | |
| Suzanne Glatz | PJM Interconnection | None |
| Craig Glazer | PJM Interconnection | None |
| Michele Greening | PJM Interconnection | None |
| | | Transmission Owner |
| Albert Grisolia | Public Service Electric & Gas Company | |
| | | Transmission Owner |
| Garan Gunn | Public Service Electric & Gas Company | |
| Erik Hanser | Michigan Public Service Commission | |
| | | Transmission Owner |
| Gary Hartman | PPL Electric Utilities Corp. dba PPL Utilities (LSE) | |
| Prusha Hasan | Advanced Energy Economy | |
| David Hastings | PJM Committee Voting Generic Account | |
| Frederick Heinle | Office of the Peoples Counsel | |
| Suzanne Herel | PJM Interconnection | None |
| | | Generation Owner |
| Tom Hoatson | West Deptford Energy, LLC | |
| | | Transmission Owner |
| Phil Hoffer | Appalachian Power Company (AEP Transmission) | |
| | | Generation Owner |
| Jennifer Hohenshilt | Talen Energy Marketing, LLC | |
| Lynn Marie Horning | Customized Energy Solutions, Ltd. | None |
| | | Transmission Owner |
| John Horstmann | Dayton Power & Light Company (The) | |
| | | Electric Distributor |
| Gerit Hull | American Municipal Power, Inc. | |
| | | Transmission Owner |
| Inwook Hwang | Baltimore Gas and Electric Company | |
| Tom Hyzinski | GT Power Group, LLC | None |
| Arthur Iler | Indiana Office of Utility Consumer Counselor | |
| Farhad Jamshidian | OSI Digital Grid Solutions | |
| | | Other Supplier |
| Gina Jardot | NRG Curtailment Solutions, Inc. | |
| | | Other Supplier |
| Thomas Jens | Black Oak Capital, LLC | |
| | | Transmission Owner |
| William Jett | Duke Energy Business Services LLC | |
| | | Transmission Owner |
| Bethany Johnson | PPL Electric Utilities Corp. dba PPL Utilities (TO) | |
| Carl Johnson | Customized Energy Solutions, Ltd. | None |
| | | Transmission Owner |
| Nathaniel Johnson | Appalachian Power Company (AEP Generation) | |

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| David Johnston | Other | |
| Clark Kaml | Power System Engineering | |
| Brian Kauffman | Enel X North America, Inc. | Other Supplier |
| Samuel Kayne | Delaware PSC | |
| Stephen Kelly | Brookfield Renewable Trading and Marketing LP (BSMH) | Other Supplier |
| Janessa Kent | Duquesne Light Company | Transmission Owner |
| David Kimmel | PJM Interconnection | None |
| Matthew King | GDS | |
| Nicolas Koehler | Appalachian Power Company (AEP Transmission) | Transmission Owner |
| George Kogut | New York Power Authority | Other Supplier |
| Katherine Legates | Appalachian Power Company (AEP Generation) | Transmission Owner |
| Cecilia Liang-Nicol | Allegheny Power (MonPwr Gen) | |
| Steven Lieberman | American Municipal Power, Inc. | Electric Distributor |
| Glenn Long | PJM Interconnection | None |
| Xi Lu | Ford Motor Company | |
| Leonid Lyakhovich | Public Service Electric & Gas Company | Transmission Owner |
| David Mabry | McNees Wallace & Nurick LLC | |
| Yohannes Mariam | Office of the People's Counsel for the District of Columbia | |
| Ray MASON | Other | |
| Doug Matheson | Enel X North America, Inc. | Other Supplier |
| Eric Matheson | Non-member | |
| Brian McArdle | NextEra Energy Marketing, LLC | Other Supplier |
| Maura McClelland | PUCO | |
| John McCombIII | PJM Interconnection | None |
| John McDaniel | Baltimore Gas and Electric Company | Transmission Owner |
| Christian McDewell | Pennsylvania Public Utility Commission | |
| Timothy McInerney | Commonwealth Edison Company | Transmission Owner |
| Justin McNeil | Kentucky Public Service Commission | |
| John Metz | University of Delaware | |
| Sharon Midgley | Exelon Business Services Company, LLC | Transmission Owner |
| John Miller | Calico Energy | |
| David Mroz | PJM Interconnection | |

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| Koushy Nareshkumar | Potomac Electric Power Company | Electric Distributor |
| Mike Nester | Dominion Virginia Power (EDC) | Transmission Owner |
| Nathaniel Nichols | PECO Energy Company | Transmission Owner |
| Emma Nix | Jersey Green Energy LLC | Other Supplier |
| Chris Norton | American Municipal Power, Inc. | Electric Distributor |
| Nneomma Nwosu | Guidehouse Inc. | None |
| James Okenfuss | Savion, LLC | |
| Michael Olaleye | PJM Interconnection | None |
| Brock Ondayko | AEP Energy Partners, Inc. (AEP Gen Resources) | Transmission Owner |
| Greg Pakela | DTE Energy Trading, Inc. | Other Supplier |
| Amanda Parker | Pennsylvania Electric Company | Electric Distributor |
| Sara Parkison | University of Delaware | |
| Aasawari Pawar | Orsted Onshore North America, LLC | Generation Owner |
| John Peoples | Duquesne Light Company | Transmission Owner |
| Christopher Pilong | PJM Interconnection | None |
| Joseph Polka | Duquesne Light Company | Transmission Owner |
| Greg Poulos | PJM Committee Voting Generic Account | |
| Ruth Price | Delaware Division of the Public Advocate | |
| Michael Purdie | Dominion Virginia Power | Transmission Owner |
| Farrokh Rahimi | Open Access Technology International, Inc. | None |
| John Rainey | Northern Virginia Electric Cooperative (NOVEC) | Electric Distributor |
| Samuel Ramos | University of Delaware | |
| Tomas Rodriguez | Organization of PJM States, Inc. | |
| John Rohrbach | Wabash Valley Power Association, Inc. | Electric Distributor |
| Alex Rosenblatt | Duquesne Light Company | Transmission Owner |
| James Rouland | PPL Electric Utilities Corp. dba PPL Utilities (LSE) | Transmission Owner |
| Amanda Rumsey | PPL Electric Utilities Corp. dba PPL Utilities (TO) | Transmission Owner |
| Tom Rutigliano | Natural Resources Defense Council | |
| Jonathan Sasser | Customized Energy Solutions, Ltd. | None |

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| David Scarp | Calpine Energy Services, L.P. | Generation Owner |
| Kenneth Schisler | Enerwise Global Technologies, LLC | Other Supplier |
| David Schmitt | New Jersey Board Of Public Utilities | |
| CONNIE SCHROEDER | Dominion Virginia Power | Transmission Owner |
| Bahaa Seireg | Rockland Electric Company | Transmission Owner |
| Mark Smith | AEP Energy Partners, Inc. (AEP Retail) | Transmission Owner |
| James Sorrels | AEP Appalachian Transmission Company, Inc. | Transmission Owner |
| Paul Sotkiewicz | E-Cubed Policy Associates | |
| Vincent Stefanowicz | PJM Interconnection | None |
| Ed Stein | Ohio Edison Company | Electric Distributor |
| Alexander Stern | Public Service Electric & Gas Company | Transmission Owner |
| Zachary Stines | Borrego Solar | |
| John Sturgeon | Duke Energy Business Services LLC | Transmission Owner |
| Heather Svenson | Public Service Electric & Gas Company | Transmission Owner |
| Brad Swalwell | Tangent Energy Solutions, Inc. | Other Supplier |
| Eric Swanger | Appalachian Power Company (AEP Transmission) | Transmission Owner |
| Rory Sweeney | GT Power Group, LLC | None |
| Kristin Swenson | Midcontinent Independent Sys Op, Inc. (CTS) | |
| Natalie Tacka | PJM Interconnection | None |
| Robert Taylor | Commonwealth Edison Company | Transmission Owner |
| Zelalem Tekle | Bath County Energy, LLC | Generation Owner |
| Kevin Thundiyl | Exelon Generation Co., LLC (NEV_XLON) | Generation Owner |
| Andrea Tighe | CAPS | |
| Prad Tripathy | Guidehouse | |
| Catherine Tyler | Monitoring Analytics | |
| William VanderLaan | Illinois Commerce Commission | |
| Jim Waight | Siemens Industry, Inc. | Other Supplier |
| Jacqueline Walker | Duke Energy Carolinas, LLC | Other Supplier |
| Jerry Warchol | Dominion Virginia Power (EDC) | Transmission Owner |

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| Luan Watson | Potomac Electric Power Company | Electric Distributor |
| John Webster | lccetec.com, Inc. | Other Supplier |
| Kathleen Wehnes | Maryland Department of the Environment | |
| Christopher Wehr | Ohio Edison Company (EDC) | Electric Distributor |
| Matthew Wharton | Guidehouse Inc. | None |
| Jeffrey Whitehead | GT Power Group | |
| Bernie Whitmoyer | Jersey Central Power & Light Company | Transmission Owner |
| Amy Willey | Delaware Public Service Commission | |
| De Andre Wilson | Maryland Public Service Commission | |
| Megan Wisersky | Madison Gas & Electric Co. | Other Supplier |
| Damon Xenopoulos | Other | |
| Andrea Yeaton | PJM Interconnection | None |
| Michael Yoder | RTO Insider | |
| Kyungjin Yoo | Monitoring Analytics | |
| Vivian Younes | PPL Electric Utilities Corp. dba PPL Utilities (LSE) | Transmission Owner |
| Mike Zhang | PJM Interconnection | None |

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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3. Under “Select Audio Option” select “Call Me” option from the dropdown menu

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