



DER and Inverter-based Resources Subcommittee WebEx Only March 31, 2021 9:00 a.m. – 4:00 p.m. ET

Administration (9:00 - 9:20)

- 1. Scott Baker opened the meeting and reviewed the agenda.
- 2. Hamad Ahmed reviewed the meeting participation guidelines. The minutes from the March DIRS meeting and the EDC coordination workshop were approved with 0 objections and 0 abstentions
- 3. Scott Baker reviewed the DIRS work plan.
 - Scott reviewed the detailed work plan for FERC order 2222 briefly discussing different milestones. Scott highlighted that today's DIRS meeting will be mostly spent walking through PJM's straw proposal for DER aggregation under FERC order 2222.
- 4. Thomas DeVita addressed FERC's Order 2222-A, which provides clarification on a number of issues contained in Order 2222.
 - Thomas reviewed key item topics from FERC order 2222-A.

Order 2222 - Discussion on straw proposal (9:20 - 3:00)

- 5. Scott Baker introduced a solutions matrix that will be used to track progress on PJM's compliance filing as well as compare policy options for certain topic areas.
 - Scott reviewed the status quo matrix for high level requirements within FERC order 2222 and indicated that PJM intends to use the matrix for tracking its compliance proposal moving forward.
- 6. PJM Staff reviewed a straw proposal for DER Aggregation that seeks to address the various compliance directives in Order 2222. The straw proposal was meant to provide a more holistic view of how PJM staff is initially approaching each topic area, and to serve as a starting place for further collaboration between staff and stakeholders on PJM's compliance filing.
 - Danielle Croop, PJM, provided an overview of PJM's high-level holistic design approach and additional areas that require further discussion. Danielle also reviewed the new extension timeline highlighting that PJM has not received feedback from FERC regarding the February 1, 2022 extension.
 - Danielle briefly discussed PJM's guiding principles for design development and compartmented FERC order 2222 into five designs; DERA Jurisdiction and Interconnection, Operations, Market Design, Settlements and Coordination. Danielle also reviewed various terminologies.
 - Sue Glatz, PJM, discussed FERC's guidance towards interconnection stating that FERC elucidates in the order that DER engaging in wholesale market activity through a DER aggregation do not fall under a Commission Jurisdictional interconnection.





- Sue discussed capacity interconnection rights (CIRs), status quo for retail connected BTM DERs
 and concerns with expanded DER participation and continued use of netted generation model. Sue
 also reviewed proposed data requirements for planning and analyzed a simplified example of netted
 and aggregated modeling.
- Thomas DeVita, PJM, discussed PJM's reasoning on Jurisdiction, discussing Market-Based Rate Authority, Market Participation Agreements and opt-in small utility.
- Danielle Croop, PJM, discussed location requirements for DER aggregations. Danielle also indicated that each DER will be mapped individually in PJM network. Danielle also reviewed nodal aggregations, weighting factors and various locational requirements definitions and discussed numerous examples.
- Maddie Beban, PJM, discussed zonal aggregation model and telemetry.
- Danielle Croop, PJM, discussed PJM's direction towards operational needs and reviewed
 Capacity, Energy, cost based offers and Ancillary services within the Market participation model.
- The group ran out of time to finish the entire proposal presentation and will pick up at the next full-day DIRS within the Size Requirements section of the presentation.

Solar-Battery Hybrid Resources (3:00 - 3:55)

- 7. Andrew Levitt, PJM, provided education around a synchronous reserves requirement for hybrids.
 - Andrew discussed primary and uncertainty considerations for Synchronized Reserve for solarbattery hybrids and reviewed language within PJM manual 11 regarding Synchronized Reserve.
- 8. Skyler Marzewski, PJM, provided an update on the application of the Minimum Offer Price Rule for colocated and hybrid resources.
 - Skyler discussed MOPR prices, MOPR for hybrid resources and co-located resources for Solar plus Battery. Skyler also reviewed MOPR decision tree for Solar plus Battery.
- 9. Stakeholders reviewed progress on the solar-battery hybrid solutions matrix and discussed next steps towards recommending a proposal to the MIC (and OC).
 - The group did not have time to review the matrix but agreed to work offline to see if the current two proposals could be narrowed to a single proposal by the next meeting.

Issue Tracking: Solar-Battery Hybrid Resources

Action items and next meeting agenda (3:55 – 4:00)

10. The facilitation team reviewed action items from the meeting and took requests for future agenda items.





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Author: Hamad Ahmed

WebEx Meeting Attendance

| | | Sector |
|-------------------|-----------------------------------------|-------------------------|
| Name | Company Name | Geoloi |
| | | Transmission Owner |
| Aguilera, Jorge | Duke Energy Ohio, Inc. (EDC) | |
| | Federal Energy Regulatory | |
| Ahmad, Syed | Commission | Nana |
| Ahmed, Hamad | PJM Interconnection | None |
| | | Other Supplier |
| Ainspan, Malcolm | NRG Curtailment Solutions, Inc. | Township of the Control |
| All AMPIPA | 0 | Transmission Owner |
| Allen, William | Commonwealth Edison Company | None |
| Anders, David | PJM Interconnection | None |
| Anderson, Jared | American Transmission Company - Retired | |
| Aliderson, Jared | PPL Electric Utilities Corp. dba PPL | Transmission Owner |
| Arnold, Katelyn | Utilities (LSE) | Transmission emile |
| runoid, rutolyn | Public Service Electric & Gas | Transmission Owner |
| Arsalan, Qamar | Company | |
| Baker, Jeff | PJM Connect | |
| Baker, Scott | PJM Interconnection | None |
| 2000. | Exelon Business Services Company, | Transmission Owner |
| Barker, Jason | LLC | |
| | | Generation Owner |
| Baur, Sean | GlidePath Power Operations LLC | |
| | PPL Elec Utilities Corp dba PPL | Transmission Owner |
| Beam, George | Utilities (PPL POLR Small C&I) | |
| Beban, Madalyn | PJM Interconnection | None |
| Benchek, Jim | FirstEnergy Corporation | |
| Bernabeu, Emanuel | PJM | |





| Berner, Aaron | PJM Interconnection | None |
|------------------------------|-----------------------------------------------------|--------------------|
| Bernstein, Matthew | PJM Interconnection | None |
| Berton, Tyler | AEP Appalachian Transmission Company, Inc. | Transmission Owner |
| Besz, Matthew | PPL Electric Utilities Corp. dba PPL Utilities (TO) | Transmission Owner |
| Bhana, Rajesh | Exelon Business Services Company, LLC | Transmission Owner |
| Bielak, Donnie | PJM Interconnection | None |
| Borgatti, Michael | PJM Committee Voting Generic Account | |
| Borkoski, John | MD Public Service Commission | |
| Bowring, Joe | Monitoring Analytics | |
| Boyle, Glen | PJM Interconnection | None |
| Breidenbaugh, Aaron | Rodan Energy Solutions (USA) Inc. | Other Supplier |
| Brigaud, Olivier | NW NA | |
| Brodbeck, John | EDP Renewables North America LLC | Generation Owner |
| Brooks, Richard | Reliable Energy Analytics LLC | |
| Bryson, Michael | PJM Internal | |
| Buhler, Thomas | PJM Connect | |
| Burnham, Kat | Advanced Energy Economy (AEE) | |
| Callen, Zachary | Illinios Commerce Commission | |
| Campbell, Bruce | Enerwise Global Technologies, LLC | Other Supplier |
| Canter, David | Appalachian Power Company (AEP Generation) | Transmission Owner |
| Carmean, Gregory | Organization of PJM States, Inc. | |
| Cavan, Peter | Direct Energy Business Marketing, LLC | Other Supplier |
| Caven, Augustine | PJM Interconnection | None |
| Chakragiri, Mohan | ENGIE Energy Marketing NA, Inc. (Bluestone) | Other Supplier |
| Cham, Edrissa | Savion, LLC | |
| Chang, Sean | Shell Energy North America (US), L.P. | Other Supplier |
| Chee, Yee Hong | MCG Energy Solutions | |
| Chen, Yang | PJM Interconnection | None |
| , U | | Generation Owner |
| Chocarro Aguirrebengoa, Iker | RWE Renewables Americas, LLC | |
| Christopher, Mahila | Public Utilities Commission of Ohio | |





| Corpany Cocco, Michael Old Dominion Electric Cooperative Transmission Owner Duquesne Light Company Transmission Owner Duke Energy Ohio, Inc. Transmission Owner Dominion Virginia Power Transmission Owner Dominion Virginia Power Transmission Owner Davis, Elizabeth PJM Interconnection Dominion Energy Generation Marketing, Inc. DeBleeckere, Tricia Minnesota Public Utilities Commission Delaney, Liz Borrego Solar Delosa, Joseph Northern Virginia Electric Cooperative (NOVEC) Denby, Brett (NOVEC) Dominion Virginia Power Delvita, Thomas DiNicola, Laura Dominion Virginia Power Dayton Power & Light Company Transmission Owner Dayton, Dewer Dayton Power & Light Company (The) (EDC) Transmission Owner Transmission Owner Transmission Owner Dominion Virginia Power Dayton Power & Light Company (The) (EDC) Transmission Owner Dominion, Christin Duquesne Light Company Downs, Jere PJM Connect Drom, Rick Rick Drom Dropkin, Ilyana PJM Interconnection None East Kentucky Power Cooperative, Inc. Public Service Electric & Gas Company Elikins, Rachel American Transmission Systems, Inc. Public Service Electric & Gas Company Elikins, Rachel Illinois Commerce Commission | | Public Service Electric & Gas | |
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| Connelly, Nancy Duke Energy Ohio, Inc. Transmission Owner Duke Energy Ohio, Inc. Transmission Owner Dominion Virginia Power Corop, Danielle Dominion Virginia Power Curier ES, Jeff Dominion Virginia Power D'Alessandris, Louis Dantonio, Phill Davis, Elizabeth Dominion Energy Generation Marketing, Inc. DeBleeckere, Tricia Delaney, Liz Delosa, Joseph New Jersey Board of Public Utilities None None None Deloy, Brett (NOVEC) DeVita, Thomas DiNicola, Laura Dominion Virginia Power Dominion Firetry Dominion Energy Generation Minnesota Public Utilities Northern Virginia Electric Cooperative (NOVEC) DeVita, Thomas DiNicola, Laura Dominion Virginia Power Dayton Power & Light Company (The) (EDC) Transmission Owner Transmission Owner Transmission Owner Transmission Owner Dominion Virginia Power Dominion Virginia Power Dayton Power & Light Company (The) (EDC) Transmission Owner Dominan, Christin Duquesne Light Company Downs, Jere PJM Connect Pom, Rick Rick Drom Dropkin, Ilyana PJM Interconnection None Transmission Owner Transmission Owner Dropkin, Ilyana PJM Interconnection None Transmission Owner Transmission Owner Transmission Owner Dropkin, Ilyana PJM Interconnection None Transmission Owner Transmission Owner Transmission Owner Dropkin, Ilyana PJM Interconnection None Transmission Owner | Cocco, Michael | Old Dominion Electric Cooperative | Transmission Owner |
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| DeBleeckere, Tricia Delaney, Liz Borrego Solar New Jersey Board of Public Utilities Northern Virginia Electric Cooperative (NOVEC) DeVita, Thomas DiNicola, Laura Diong, Mamadou Dominion Virginia Power Dolan, Ryan Domin, Christin Duquesne Light Company Downs, Jere Drom, Rick Dropkin, Ilyana PJM Interconnection Rick Dropkin, Ilyana PJM Interconnection PJM Interconnection Transmission Owner Dayton Power & Light Company Transmission Owner Duquesne Light Company Downs, Jere PJM Connect Drom, Rick Rick Drom Dropkin, Ilyana PJM Interconnection East Kentucky Power Cooperative, Inc. Dugan, Chuck Dugan, Chuck Dugan, Chuck PJM Interconnection None Transmission Owner Elkins, Rachel | | Dominion Energy Generation | Generation Owner |
| Delaney, Liz DeLosa, Joseph New Jersey Board of Public Utilities Northern Virginia Electric Cooperative (NOVEC) DeVita, Thomas DiNicola, Laura Dining, Mamadou Dominion Virginia Power Dolan, Ryan Domina, Christin Duquesne Light Company Downs, Jere Drom, Rick Drom, Rick Drom, Rick Dropkin, Ilyana PJM Interconnection PJM Interconnection Transmission Owner Duquesne Light Company Downs, Jere PJM Connect Drom, Rick Rick Drom Dugan, Chuck Drom, Chuck Dugan, Chuck Dumitriu, Nicolae PJM Interconnection PJM Interconnection Rone Transmission Owner | Davis, James | Marketing, Inc. | |
| DeLosa, Joseph New Jersey Board of Public Utilities Northern Virginia Electric Cooperative (NOVEC) DeVita, Thomas PJM Interconnection DiNicola, Laura Dominion Virginia Power Doyton Power & Light Company (The) Domian, Christin Downs, Jere Drom, Rick Drom, Rick PJM Connect Power Rick Crompany PJM Interconnection East Kentucky Power Cooperative, Inc. Dugan, Chuck | DeBleeckere, Tricia | Minnesota Public Utilities Commission | |
| Northern Virginia Electric Cooperative (NOVEC) DeVita, Thomas PJM Interconnection None DiNicola, Laura firstenergy Transmission Owner Dong, Mamadou Dominion Virginia Power Dayton Power & Light Company (The) (EDC) Transmission Owner Domian, Christin Duquesne Light Company Downs, Jere PJM Connect Prom, Rick Rick Drom Dropkin, Ilyana PJM Interconnection East Kentucky Power Cooperative, Inc. Dugan, Chuck Dumitriu, Nicolae PJM Interconnection None Transmission Owner Elkins, Rachel American Transmission Systems, Inc. | Delaney, Liz | Borrego Solar | |
| Denby, Brett DeVita, Thomas PJM Interconnection DiNicola, Laura firstenergy Transmission Owner Diong, Mamadou Dominion Virginia Power Dolan, Ryan Dolan, Ryan Domian, Christin Duquesne Light Company Downs, Jere PJM Connect Drom, Rick PJM Interconnection Rick Pick Drom Dropkin, Ilyana PJM Interconnection East Kentucky Power Cooperative, Inc. Dumitriu, Nicolae PJM Interconnection None Transmission Owner | DeLosa, Joseph | New Jersey Board of Public Utilities | |
| DeVita, Thomas DiNicola, Laura firstenergy Transmission Owner Diong, Mamadou Dominion Virginia Power Dolan, Ryan Dolan, Ryan Dominion Virginia Power Light Company (The) (EDC) Transmission Owner Domian, Christin Duquesne Light Company Downs, Jere PJM Connect Drom, Rick Rick Drom Dropkin, Ilyana PJM Interconnection East Kentucky Power Cooperative, Inc. Dumitriu, Nicolae PJM Interconnection None Transmission Owner Elkins, Rachel American Transmission Systems, Inc. Public Service Electric & Gas Company Transmission Owner | Denby, Brett | | Electric Distributor |
| DiNicola, Laura firstenergy Diong, Mamadou Dominion Virginia Power Dayton Power & Light Company (The) (EDC) Transmission Owner Domian, Christin Duquesne Light Company Downs, Jere PJM Connect Prom, Rick Rick Drom Dropkin, Ilyana PJM Interconnection East Kentucky Power Cooperative, Inc. Dumitriu, Nicolae PJM Interconnection None Transmission Owner Elkins, Rachel American Transmission Systems, Inc. Public Service Electric & Gas Company | | | None |
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| Diong, Mamadou Dominion Virginia Power Dayton Power & Light Company (The) (EDC) Transmission Owner Domian, Christin Duquesne Light Company Downs, Jere PJM Connect Drom, Rick Dropkin, Ilyana PJM Interconnection East Kentucky Power Cooperative, Inc. Dumitriu, Nicolae PJM Interconnection None Transmission Owner Elkins, Rachel American Transmission Systems, Inc. Public Service Electric & Gas Company | Dividola, Ladia | institutely | Transmission Owner |
| Dayton Power & Light Company (The) (EDC) Transmission Owner Domian, Christin Duquesne Light Company Downs, Jere PJM Connect Drom, Rick Rick Drom Dropkin, Ilyana PJM Interconnection East Kentucky Power Cooperative, Inc. Dumitriu, Nicolae PJM Interconnection None Transmission Owner Elkins, Rachel American Transmission Systems, Inc. Public Service Electric & Gas Company | Diong, Mamadou | Dominion Virginia Power | |
| Domian, Christin Duquesne Light Company Downs, Jere PJM Connect Drom, Rick Rick Drom Dropkin, Ilyana PJM Interconnection East Kentucky Power Cooperative, Inc. Dumitriu, Nicolae PJM Interconnection None Transmission Owner Elkins, Rachel American Transmission Systems, Inc. Public Service Electric & Gas Company Transmission Owner | | Dayton Power & Light Company (The) | Transmission Owner |
| Downs, Jere PJM Connect Drom, Rick Rick Drom Dropkin, Ilyana PJM Interconnection None East Kentucky Power Cooperative, Inc. Dugan, Chuck Inc. Dumitriu, Nicolae PJM Interconnection None Transmission Owner Elkins, Rachel American Transmission Systems, Inc. Public Service Electric & Gas Company Transmission Owner | . , | | Transmission Owner |
| Drom, Rick Dropkin, Ilyana PJM Interconnection East Kentucky Power Cooperative, Inc. Dumitriu, Nicolae PJM Interconnection None Transmission Owner Transmission Owner Elkins, Rachel American Transmission Systems, Inc. Public Service Electric & Gas Company Transmission Owner | Domian, Christin | Duquesne Light Company | |
| Dropkin, Ilyana PJM Interconnection East Kentucky Power Cooperative, Inc. Dugan, Chuck Dumitriu, Nicolae PJM Interconnection None Transmission Owner Transmission Owner Elkins, Rachel American Transmission Systems, Inc. Public Service Electric & Gas Company Transmission Owner | Downs, Jere | PJM Connect | |
| Dropkin, Ilyana PJM Interconnection East Kentucky Power Cooperative, Inc. Dugan, Chuck Dumitriu, Nicolae PJM Interconnection None Transmission Owner Transmission Owner Elkins, Rachel American Transmission Systems, Inc. Public Service Electric & Gas Company Transmission Owner | | | |
| East Kentucky Power Cooperative, Inc. Dugan, Chuck Dumitriu, Nicolae PJM Interconnection None Transmission Owner Elkins, Rachel American Transmission Systems, Inc. Public Service Electric & Gas Company Transmission Owner | | | None |
| Dugan, Chuck Inc. Dumitriu, Nicolae PJM Interconnection None Elkins, Rachel American Transmission Systems, Inc. Public Service Electric & Gas Company Transmission Owner Transmission Owner Transmission Owner | | | Transmission Owner |
| Dumitriu, Nicolae PJM Interconnection Transmission Owner Elkins, Rachel American Transmission Systems, Inc. Public Service Electric & Gas Company Transmission Owner Transmission Owner | Dugan, Chuck | 1 . · · · · · · · · · · · · · · · · · · | |
| Elkins, Rachel American Transmission Systems, Inc. Public Service Electric & Gas Ellis, David Transmission Owner Company | | PJM Interconnection | None |
| Public Service Electric & Gas Ellis, David Transmission Owner Company | | | Transmission Owner |
| Ellis, David Company | Elkins, Rachel | American Transmission Systems, Inc. | |
| | Ellis, David | | Transmission Owner |
| | | | |





| Essah, David | N/A | |
|-----------------------|--------------------------------------------------------|----------------------|
| Esterly, Theresa | PJM Interconnection | None |
| Everngam, Scott | Blue Horseshoe Energy LLC | |
| fan, zhenyu | PJM Interconnection | None |
| Feldman, Brett | Other | |
| Filomena, Guy | Customized Energy Solutions, Ltd. | None |
| Fleisher, Madeline | Dickinson Wright PLLC | |
| | | Generation Owner |
| Foladare, Kenneth | Geenex Solar LLC | Electric Distributor |
| Ford, Adrien | Old Dominion Electric Cooperative | Electric Distributor |
| Tora, Marion | East Kentucky Power Cooperative, | Transmission Owner |
| Foster Cronin, Denise | Inc. | |
| Frogg, Darrell | PJM Interconnection | None |
| Fuller, Peter | Autumn Lane Energy Consulting LLC | |
| Gahimer, Michael | Indiana Office of Utility Consumer Counselor (IN OUCC) | |
| Garcia, Luis | Public Service Electric & Gas Company | Transmission Owner |
| | | Transmission Owner |
| Garnett, Bryan | Duke Energy Ohio, Inc. | T |
| Gates, Terry | Appalachian Power Company (AEP Generation) | Transmission Owner |
| Genuario, Gabrielle | PJM Interconnection | None |
| Gilani, Rehan | ConEdison Energy, Inc. | Other Supplier |
| Glatz, Suzanne | PJM Interconnection | None |
| Glazer, Craig | PJM Interconnection | None |
| Granstrand, Luke | Dominion Virginia Power | |
| Greening, Michele | PJM Interconnection | None |
| Greiner, Gary | PSEG Energy Resources and Trade LLC | Other Supplier |
| Guistwhite, Jeffrey | PJM Interconnection | |
| outermine, comey | American PowerNet Management, | End-Use Customer |
| Guntle, Vince | L.P. | |
| Hanser, Erik | Michigan Public Service Commission | |
| Hartman, Gary | PPL Electric Utilities Corp. dba PPL Utilities (LSE) | Transmission Owner |
| Hastings, David | PJM Committee Voting Generic Account | |
| Hauske, Thomas | PJM Interconnection | None |
| Hays, Christina | Dominion Virginia Power | Transmission Owner |





| Heinle, Frederick | Office of the Peoples Counsel | |
|----------------------|------------------------------------------------------|----------------------|
| , | | Generation Owner |
| Heisey, Bradley | Tenaska Pennsylvania Partners, LLC | |
| Herel, Suzanne | PJM Interconnection | None |
| | | Generation Owner |
| Hoatson, Tom | West Deptford Energy, LLC | Generation Owner |
| Hohenshilt, Jennifer | Talen Energy Marketing, LLC | Generation Owner |
| Tiononomit, commo | Northern Virginia Electric Cooperative | Electric Distributor |
| Holdbrook, Ruth | (NOVEC) | |
| Horning, Lynn Marie | Customized Energy Solutions, Ltd. | None |
| - | | Transmission Owner |
| Horstmann, John | Dayton Power & Light Company (The) | |
| Howe, Cullen | Natural Resources Defense Council | |
| Hugee, Jacqulynn | PJM Interconnection | None |
| | | Electric Distributor |
| Hull, Gerit | American Municipal Power, Inc. | |
| Hyzinski, Tom | gtpghyzinsk | |
| Iler, Arthur | Indiana Office of Utility Consumer Counselor | |
| iici, Aitiiui | Boston Energy Trading and Marketing | Other Supplier |
| Janicki, Diane | LLC | |
| | | Other Supplier |
| Jardot, Gina | NRG Curtailment Solutions, Inc. | |
| | | Other Supplier |
| Jens, Thomas | Black Oak Capital, LLC | Transmission Owner |
| Jett, William | Duke Energy Business Services LLC | Transmission Owner |
| | | |
| Jha, Monica | PCI | Transmission Owner |
| Johnson, Augustus | Dominion Virginia Power (EDC) | Transmission switch |
| oomoon, ragadaa | PPL Electric Utilities Corp. dba PPL | Transmission Owner |
| Johnson, Bethany | Utilities (TO) | |
| Johnson, Carl | Customized Energy Solutions, Ltd. | None |
| | Appalachian Power Company (AEP | Transmission Owner |
| Johnson, Nathaniel | Generation) | |
| Johnston, David | Other | |
| Joshipura, Neil | Virginia State Corporation Commission | |
| Kauffman, Brian | Enel X North America, Inc. | Other Supplier |
| Kelly, Stephen | Brookfield Renewable Trading and Marketing LP (BSMH) | Other Supplier |
| Kennedy, Thomas | Commonwealth Edison Company | |
| 4 / | | Transmission Owner |
| Kent, Janessa | Duquesne Light Company | |





| | | Generation Owner |
|----------------------|-------------------------------------------------------------|----------------------|
| Kilgallen, Kevin | Avangrid Renewables, LLC | |
| Kimmel, David | PJM Interconnection | None |
| Koehler, Nicolas | Appalachian Power Company (AEP Transmission) | Transmission Owner |
| Kogut, George | New York Power Authority | Other Supplier |
| Kopinski, John | ITC Interconnection LLC | Transmission Owner |
| Kozhuharov, Dimitar | State Commissions | |
| Lee, Lori Murphy | PJM Interconnection | None |
| Levitt, Andrew | PJM Interconnection | None |
| Lieberman, Steven | American Municipal Power, Inc. | Electric Distributor |
| , | | Transmission Owner |
| LOWE, CONNIE | Dominion Virginia Power | |
| Luo, Xiaochuan | ISO New England Inc | |
| Lyakhovich, Leonid | Public Service Electric & Gas Company | Transmission Owner |
| Mabry, David | McNees Wallace & Nurick LLC | |
| Marcino, Angelo | PJM Interconnection | None |
| Mariam, Yohannes | Office of the People's Counsel for the District of Columbia | |
| martin, Valerie | Federal Energy Regulatory Commission | |
| Marzewski, Skyler | PJM Interconnection | |
| mason, julie | Duke Energy Ohio, Inc. | Transmission Owner |
| | | Other Supplier |
| Matheson, Doug | Enel X North America, Inc. | |
| Mattson, Lisa | Pivot Energy | |
| McCormick, Katharine | Illinois Commerce Commission | |
| McGlynn, Paul | PJM Interconnection | None |
| | | Transmission Owner |
| McInerney, Timothy | Commonwealth Edison Company | Transmission Owner |
| Midgley, Sharon | Exelon Business Services Company, LLC | |
| Morelli, Lisa | PJM Interconnection | None |
| Muhl, Nancy | PJM Interconnection | None |
| Newman, Jonathan | AES Energy Storage, LLC | Generation Owner |
| Nix, Emma | Jersey Green Energy LLC | Other Supplier |





| | | Electric Distributor |
|---------------------|------------------------------------------------------|----------------------|
| Norton, Chris | American Municipal Power, Inc. | |
| nyemko, masha | PJM Interconnection | None |
| O'Hara, Christopher | PJM | |
| Okenfuss, James | Savion, LLC | |
| Ondayko, Brock | AEP Energy Partners, Inc. (AEP Gen Resources) | Transmission Owner |
| Pakela, Greg | DTE Energy Trading, Inc. | Other Supplier |
| Parker, Amanda | Pennsylvania Electric Company | Electric Distributor |
| Pawar, Aasawari | NRG Curtailment Solutions, Inc. | Other Supplier |
| Phillips, Darlene | PJM Interconnection | None |
| Pilong, Christopher | PJM Interconnection | None |
| Pilong, Melissa | PJM Interconnection | None |
| Placide, Scott | Potomac Electric Power Company | Electric Distributor |
| Polka, Joseph | Duquesne Light Company | Transmission Owner |
| Poulos, Greg | PJM Committee Voting Generic Account | |
| Pratt, Nicholas | PPL Electric Utilities Corp. dba PPL Utilities (TO) | Transmission Owner |
| Price, Ruth | Delaware Division of the Public Advocate | St. di Bidi d |
| Procuniar, Jason | Buckeye Power, Inc. | Electric Distributor |
| Purdie, Michael | Dominion Virginia Power | Transmission Owner |
| Quier, David | PPL Electric Utilities Corp. dba PPL Utilities (TO) | Transmission Owner |
| Rainey, John | Northern Virginia Electric Cooperative (NOVEC) | Electric Distributor |
| Reagan, Ryann | New Jersey Board of Public Utilities | |
| REILLY, Jim | Reilly Associates | |
| Robinson, Becky | vistra energy | |
| Rodriguez, Tomas | Organization of PJM States, Inc. | |
| Rohrbach, John | Wabash Valley Power Association, Inc. | Electric Distributor |
| Rosenblatt, Alex | Duquesne Light Company | Transmission Owner |
| Rouland, James | PPL Electric Utilities Corp. dba PPL Utilities (LSE) | Transmission Owner |





| Roychowdhury, Rajarshi | Dayton Power & Light Company (Default) | Transmission Owner |
|------------------------------|------------------------------------------------------|----------------------|
| Rumsey, Amanda | PPL Electric Utilities Corp. dba PPL Utilities (TO) | Transmission Owner |
| Salet, Sal | PPL Electric Utilities Corp. dba PPL Utilities (LSE) | |
| Sasser, Jonathan | Customized Energy Solutions, Ltd. | None |
| Scarpignato, David | Calpine Energy Services, L.P. | Generation Owner |
| Scheirer, Alexandra | PJM Interconnection | None |
| | | Other Supplier |
| Schisler, Kenneth | Enerwise Global Technologies, LLC | |
| Schreim, Morris | MD PSC | N. |
| Schuyler, Ken | PJM Interconnection | None |
| Schweizer, David | PJM Interconnection | |
| | 5 11 15 11 5 | Transmission Owner |
| Seireg, Bahaa | Rockland Electric Company | Transmission Owner |
| Sells, Scott | East Kentucky Power Cooperative, Inc. | Transmission Owner |
| Gens, Geott | PPL Electric Utilities Corp. dba PPL | Transmission Owner |
| Sharkazy III, William | Utilities (LSE) | |
| | | Transmission Owner |
| Shearer, Evan | Duke Energy Business Services LLC | |
| Shukla, Tanmay | Environmental Law and Policy Center | |
| Singh, Mohit | Commonwealth Edison Company | Transmission Owner |
| Smith, Mark | AEP Energy Partners, Inc. (AEP Retail) | Transmission Owner |
| Solomon, Greg | Peak Power Inc | |
| Sorrels, James | AEP Appalachian Transmission Company, Inc. | Transmission Owner |
| Stefanowicz, Vincent | PJM Interconnection | None |
| Stein, Ed | Ohio Edison Company | Electric Distributor |
| Stern, Alexander | Public Service Electric & Gas Company | Transmission Owner |
| Stupar, Rob | Invenergy Energy Management LLC | Generation Owner |
| | Exelon Business Services Company, LLC | Transmission Owner |
| Sun, Haibin Svenson, Heather | Public Service Electric & Gas | Transmission Owner |
| | Company Tangent Energy Solutions, Inc. | Other Supplier |
| Swalwell, Brad | rangent Energy Solutions, inc. | 1 |





| Sweeney, Rory | GT Power Group, LLC | None |
|--------------------------|-------------------------------------------------------------|----------------------|
| | Midcontinent Independent Sys Op, Inc. | |
| Swenson, Kristin | (CTS) | Nana |
| Tacka, Natalie | PJM Interconnection | None |
| To be Debut | 0 | Transmission Owner |
| Taylor, Robert | Commonwealth Edison Company | Transmission Owner |
| Teeter, Valerie | Exelon Business Services Company, LLC | Transmission owner |
| Thomas, Sharon | Energy Storage Association | |
| Thundiyil, Kevin | Exelon Generation Co., LLC (NEV_XLON) | Generation Owner |
| Tighe, Andrea | CAPS | |
| Tobia, James | FirstEnergy Services | |
| Tyler, Catherine | Monitoring Analytics | |
| Von Pinho, Fred | Apex Clean Energy Holdings, LLC | |
| Walch, lan | Enchanted Rock, LLC | |
| Walker, Jacqueline | Duke Energy Business Services LLC | |
| Walter, Laura | PJM Interconnection | None |
| 7761101, 201010 | | Other Supplier |
| Watson, Betty | Affirmed Energy LLC | |
| Weber, Adam | Union Electric Company d/b/a Ameren Missouri | Other Supplier |
| Wilder | | Other Supplier |
| Webster, John | Icetec.com, Inc. Maryland Department of the | |
| Wehnes, Kathleen | Environment | |
| | | Electric Distributor |
| Wehr, Christopher | Ohio Edison Company (EDC) | |
| White, Brett | Brett White | |
| Whitehead, Jeffrey | GT Power Group | |
| | | Transmission Owner |
| Wicks, Tonja | Duquesne Light Company | |
| Willey, Amy | Delaware Public Service Commission | Townsists 0 |
| Miles of the CO Carrille | Deminian Vinninia Deven | Transmission Owner |
| Wilson De Andre | Dominion Virginia Power Manufand Public Service Commission | |
| Wilson, De Andre | Maryland Public Service Commission | Other Supplier |
| Wisersky, Megan | Madison Gas & Electric Co. | Carol Cuppliol |
| Wisniewski, Christian | Centrica Business Solutions | |
| Wray, Gizelle | Solar Energy Industries Association (SEIA) | |
| Xenopoulos, Damon | Other | |
| Yeaton, Andrea | PJM Interconnection | None |
| Yoo, Kyungjin | Monitoring Analytics | |





| Yoo, Kyungjin | Monitoring Analytics | |
|---------------|----------------------|------|
| Yu, Joel | Enchanted Rock | |
| Zhang, Mike | 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.

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to Mute/Unmute

Linking Teleconference Connection to Webex

When logging in to the meeting, access Webex first and select the "call me" feature to receive a direct call to your phone. Using this feature will connect your name to your Webex presence.

Join a Meeting

- 1. Join meeting in the Webex desktop client
- 2. Enter name (First and Last*) and corporate email
- 3. Under "Select Audio Option" select "Call Me" option from the dropdown menu

*Note: Anonymous users or those using false usernames or emails will be dropped from the teleconference.

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