

**Members Committee**  
**Two Hundred Thirty-Fourth Meeting**  
**PJM Conference and Training Center, Audubon, PA / WebEx**  
**January 25, 2023**  
**1:15 p.m. – 5:00 p.m. EPT**

**Administration (1:15-1:20)**

David Scarpignato, Members Committee Chair, welcomed stakeholders to the meeting.

- A. David Anders announced the following new member companies approved for PJM membership since the last meeting:

| Member Name             | Member Type      | Voting Member (if Affiliate)       | Sector         |
|-------------------------|------------------|------------------------------------|----------------|
| Great Cove Solar LLC    | Affiliate Member | Dayton Power & Light Company (The) | Other Supplier |
| Great Cove Solar II LLC | Affiliate Member | Dayton Power & Light Company (The) | Other Supplier |
| Gunvor USA LLC          | Voting Member    |                                    | Other Supplier |

He noted that three members had withdrawn since the last meeting and that the total membership stands at 1116. Thirty withdrawn members await FERC approval prior to their membership being terminated.

- B. David Anders confirmed the presence of a quorum.  
 C. David Anders reminded participants of Antitrust, Code of Conduct, and Meeting Participation guidelines.

**Consent Agenda (1:20-1:25)**

Items A through D were **approved/endorsed** by acclamation with no objections or abstention:

- A. Draft minutes of the December 21, 2022 Members Committee meeting.  
 B. Proposed Operating Agreement (OA) revisions addressing the treatment of market suspensions.  
[Issue Tracking: Rules Related to Market Suspension](#)  
 C. Proposed Tariff and OA revisions addressing the alignment of PJM’s authority in event of a default.  
[Issue Tracking: Market Participant Default Flexibility](#)  
 D. Proposed clarifying Tariff and OA revisions as endorsed by the Governing Documents Enhancements and Clarifications Subcommittee (GDECS).

## Endorsements

### 1. Manual 34 Revisions

Adrien Ford, ODEC, moved and Jim Benchek, Monongahela Power Company, seconded a Main Motion for proposed revisions to Manual 34: PJM Stakeholder Process addressing motions for new issues at the Members Committee. Greg Poulos, CAPS, offered a proposed amendment to change the word “must” to “should” in the second sentence of the proposed new section 9.51. This was not accepted by the mover and seconder, and therefore it was not incorporated into the motion. Following discussion, the proposed revisions were **approved** by acclamation with eight objections and five abstentions.

### 2. Capacity Interconnection Rights for ELCC Resources

David Scarpignato reviewed the activities of the Markets & Reliability Committee (MRC) at its January 25, 2023 meeting related to the Capacity Interconnection Rights (CIR) for ELCC Resources issue. Same day endorsement was sought at the MRC and Members Committee.

Tom Hoatson, LS Power, offered a proposed amendment to Tariff Part IV, Subpart J, section 400: Transmission System Capability as follows:

“To prevent hoarding or the potential for the exercise of market power by resources without a BRA must-offer obligation and also to ensure that the transmission system capability allocation will be used, any resource that submits a request to participate in the Transitional System Capability Study shall be required to utilize the CIRs acquired and submit an offer in the BRA for the Delivery Year for which the incremental CIR allocation was granted.”

Susan Bruce, PJM ICC, suggested removing the following from the first sentence: “To prevent hoarding or the potential for the exercise of market power by resources without a BRA must-offer obligation and also”. Tom Hoatson accepted this suggestion; therefore the updated proposed amendment was as follows:

“To ensure that the transmission system capability allocation will be used, any resource that submits a request to participate in the Transitional System Capability Study shall be required to utilize the CIRs acquired and submit an offer in the BRA for the Delivery Year for which the incremental CIR allocation was granted.”

Following additional discussion, Tom Hoatson updated the proposed amendment as follows:

“To ensure that the transitional system capability allocation will be utilized, any resource that submits a request to participate in the transitional system capability study shall utilize the transitional system capability acquired and submit an offer in the BRA or is committed in an FRR Plan, as applicable, for the Delivery Year for which the transitional system capability allocation was granted.”

John Brodbeck, EDP Renewables, and Emanuel Esquivel, Enel NA, objected to this proposed amendment, and therefore it was not incorporated into the Main Motion. Tom Hoatson moved and Alex Stern, PSEG, seconded as an Alternate Motion the Main Motion incorporating his proposed amendment.

The Main Motion consisting of proposed solution package I and associated Tariff and Reliability Assurance Agreement revisions were **endorsed** in a sector-weighted vote with 4.438 in favor.

[Issue Tracking: Capacity Interconnection Rights \(CIR\) for ELCC Resources](#)

## Reports

3. December 23/24 PAI Event Billing Update and PJM Notice of Consultation with the Members Committee pursuant to Tariff Section 9.2(b) and Transmission Owners pursuant to CTOA Section 7.5.1(ii)

Lisa Drauschak provided a December 23/24 PAI Event Billing Update and consultation relating to proposed changes to the Tariff to extend the PAI penalty/bonus settlement period.

4. MC Vice Chair Report

A. Sharon Midgley provided an update on the Members Committee Annual Plan.

B. Sharon Midgley provided an update plans for the February 13, 2023 Liaison Committee meeting with the Board of Managers.

5. Transparency Requests

David Anders provided an update regarding efforts to address transparency requests.

6. MC Webinar Feedback

Stakeholders were offered the opportunity to raise any items identified for further discussion from the January 23, 2023 Members Committee Webinar.

## Future Agenda Items

No new future agenda items were identified.

| Future Meeting Dates and Materials |           |   | Materials Due to Secretary  | Materials Published |
|------------------------------------|-----------|---|--|---------------------|
| Date                               | Time      | Location  |  |                     |
| <i>February 23, 2023</i>           | 1:15 p.m. | PJM Conference & Training Center and WebEx                                | February 13, 2023  | February 16, 2023   |
| <i>March 22, 2023</i>              | 1:15 p.m. | PJM Conference & Training Center and WebEx                                | March 10, 2023   | March 15, 2023      |
| <i>May 1, 2023</i>                 | 1:00 p.m. | Hyatt Regency Chesapeake Bay Golf Resort, Spa and Marina in Cambridge, MD | April 19, 2023   | April 24, 2023      |
| <i>May 31, 2023</i>                | 1:15 p.m. | PJM Conference & Training Center and WebEx                                | May 19, 2023   | May 24, 2023        |
| <i>June 22, 2023</i>               | 1:15 p.m. | PJM Conference & Training Center and WebEx                                | June 12, 2023  | June 15, 2023       |
| <i>July 26, 2023</i>               | 1:15 p.m. | PJM Conference & Training Center and WebEx                                | July 14, 2023  | July 19, 2023       |

|                           |           |  |                   |                    |
|---------------------------|-----------|--|-------------------|--------------------|
| <b>September 20, 2023</b> | 1:15 p.m. | PJM Conference & Training Center and WebEx | September 8, 2023 | September 13, 2023 |
| <b>October 25, 2023</b>   | 1:15 p.m. | PJM Conference & Training Center and WebEx | October 13, 2023  | October 18, 2023   |
| <b>November 15, 2023</b>  | 1:15 p.m. | PJM Conference & Training Center and WebEx | November 3, 2023  | November 8, 2023   |
| <b>December 20, 2023</b>  | 1:15 p.m. | PJM Conference & Training Center and WebEx | December 8, 2023  | December 13, 2023  |

Author: D. Anders

## Meeting Attendance

### Chair/Secretary

| Last Name   | First Name | Company Name                  | Sector           |
|-------------|------------|-------------------------------|------------------|
| Scarpignato | David      | Calpine Energy Services, L.P. | Generation Owner |
| Anders      | Dave       | PJM Interconnection LLC       | Not Applicable   |

### Voting Attendees

| Last Name | First Name | Company   | Sector               |
|-----------|------------|---|----------------------|
| Barker    | Jason      | Constellation Energy Generation, LLC              | Generation Owner     |
| Benchek   | James      | Monongahela Power Company d/b/a Allegheny Power   | Transmission Owner   |
| Bleiweis  | Bruce      | DC Energy, LLC                                    | Other Supplier       |
| Brodbeck  | John       | EDP Renewables North America LLC                  | Generation Owner     |
| Bruce     | Susan      | Trustees of the University of Pennsylvania        | End-Use Customer     |
| Bruce     | Susan      | MeadWestvaco Corporation                          | End-Use Customer     |
| Bruce     | Susan      | Messer LLC  | End-Use Customer     |
| Bruce     | Susan      | Kimberly-Clark Corporation                        | Generation Owner     |
| Bruce     | Susan      | Letterkenny Industrial Development Authority - PA | Electric Distributor |
| Bruce     | Susan      | Gerdau Ameristeel Energy, Inc.                    | End-Use Customer     |
| Bruce     | Susan      | Air Products & Chemicals, Inc.                    | End-Use Customer     |
| Bruce     | Susan      | Procter & Gamble Paper Products Company (The)     | End-Use Customer     |
| Bruce     | Susan      | Linde Inc.  | End-Use Customer     |
| Bruce     | Susan      | Lehigh Portland Cement Company                    | End-Use Customer     |
| Bruce     | Susan      | Cleveland-Cliffs Steel LLC                        | End-Use Customer     |
| Bruce     | Susan      | Wellsboro Electric Company                        | Electric Distributor |
| Canter    | David      | Appalachian Power Company                         | Transmission Owner   |
| Chang     | Sean       | Shell Energy North America (US), L.P.             | Other Supplier       |
| Davis     | James      | Virginia Electric & Power Company                 | Transmission Owner   |
| DiNicola  | Laura      | Monongahela Power Company d/b/a Allegheny Power   | Transmission Owner   |
| Domian    | Christin   | Duquesne Light Company                            | Transmission Owner   |
| Dugan     | Chuck      | East Kentucky Power Cooperative, Inc.             | Transmission Owner   |
| Esquivel  | Manuel     | Enel X North America, Inc.                        | Other Supplier       |
| Fink      | Regan      | Pine Gate Mid-Atlantic, LLC                       | Other Supplier       |
| Fishback  | Luke       | Affirmed Energy LLC                               | Other Supplier       |
| Fitch     | Neal       | NRG Power Marketing LLC                           | Generation Owner     |
| Foladare  | Kenneth    | Geenex Solar LLC                                  | Other Supplier       |
| Ford      | Adrien     | Old Dominion Electric Cooperative                 | Electric Distributor |
| Fuess     | Christian  | Diamond State Generation Partners, LLC            | Generation Owner     |
| Fuess     | Christian  | PBF Power Marketing, LLC                          | End-Use Customer     |
| Fuess     | Christian  | Icetec.com, Inc.                                  | Other Supplier       |
| Fuess     | Christian  | Kuehne Chemical Company, Inc.                     | End-Use Customer     |
| Fuess     | Christian  | NextPower III US Holdco Inc.                      | Generation Owner     |

|             |          |  |                      |
|-------------|----------|--|----------------------|
| Garnett     | Bryan    | Duke Energy Business Services LLC                      | Transmission Owner   |
| Hoatson     | Tom      | Riverside Generating Company, L.L.C.                   | Generation Owner     |
| Hohenshilt  | Jennifer | Talen Energy Marketing, LLC                            | Generation Owner     |
| Horning     | Lynn     | American Municipal Power, Inc.                         | Electric Distributor |
| Horstmann   | John     | Dayton Power & Light Company (The)                     | Transmission Owner   |
| Hyzinski    | Thomas   | Carroll County Energy LLC                              | Generation Owner     |
| Hyzinski    | Thomas   | Dynegy Marketing and Trade, LLC                        | Generation Owner     |
| Hyzinski    | Thomas   | GenOn Energy Management, LLC                           | Generation Owner     |
| Johnson     | Carl     | Easton Utilities Commission                            | Electric Distributor |
| Johnson     | Carl     | Delaware Municipal Electric Corporation, Inc.          | Electric Distributor |
| Johnson     | Carl     | Hagerstown Light Department                            | Electric Distributor |
| Johnson     | Carl     | Illinois Municipal Electric Agency                     | Electric Distributor |
| Johnson     | Carl     | Indiana Municipal Power Agency                         | Electric Distributor |
| Johnson     | Carl     | Michigan Public Power Agency                           | Electric Distributor |
| Johnson     | Carl     | North Carolina Electric Membership Corporation         | Electric Distributor |
| Johnson     | Carl     | Northern Virginia Electric Cooperative (NOVEC)         | Electric Distributor |
| Johnson     | Carl     | Thurmont Municipal Light Company                       | Electric Distributor |
| Johnson     | Carl     | Town of Williamsport (The)                             | Electric Distributor |
| Johnson     | Carl     | WPPI Energy  | Other Supplier       |
| Johnson     | Carl     | City of Dover, Delaware                                | Electric Distributor |
| Johnson     | Carl     | Buckeye Power, Inc.                                    | Electric Distributor |
| Johnson     | Carl     | Energy Cooperative Association of Pennsylvania (The)   | Other Supplier       |
| Johnson     | Carl     | Borough of Chambersburg                                | Electric Distributor |
| Johnson     | Carl     | Borough of Mont Alto, Pennsylvania                     | Electric Distributor |
| Keenan      | Matthew  | Elwood Energy, LLC                                     | Generation Owner     |
| Kelly       | Stephen  | Brookfield Renewable Trading and Marketing LP          | Other Supplier       |
| Kilgallen   | Kevin    | Avangrid Renewables, LLC                               | Generation Owner     |
| Moye        | Bob      | Tyr Energy, LLC  | Other Supplier       |
| Nix         | Emma     | Leeward Asset Management, LLC                          | Generation Owner     |
| Pakela      | Greg     | DTE Energy Trading, Inc.                               | Other Supplier       |
| Rohrbach    | John     | Kentucky Municipal Energy Agency                       | Electric Distributor |
| Rohrbach    | John     | Southern Maryland Electric Cooperative, Inc.           | Electric Distributor |
| Rohrbach    | John     | Wabash Valley Power Association, Inc.                  | Electric Distributor |
| Scarpignato | David    | Calpine Energy Services, L.P.                          | Generation Owner     |
| Shah        | Pulin    | Exelon Business Services Company, LLC                  | Transmission Owner   |
| Stern       | Alex     | Public Service Electric and Gas Company                | Transmission Owner   |
| Swalwell    | Bradley  | Tangent Energy Solutions, Inc.                         | Other Supplier       |
| Tashakkori  | Cyrus    | Open Road Renewables, LLC                              | Other Supplier       |
| Tubridy     | Meg      | Rockland Electric Company                              | Transmission Owner   |
| Whitehead   | Jeffrey  | Wheelabrator Falls Inc.                                | Generation Owner     |
| Whitehead   | Jeffrey  | Essential Power Rock Springs, LLC                      | Generation Owner     |
| Whitehead   | Jeffrey  | Eastern Generation, LLC                                | Generation Owner     |
| Wilkinson   | Eric     | Orsted Onshore North America, LLC                      | Generation Owner     |
| Yovanovich  | Laura    | PPL Electric Utilities Corporation d/b/a PPL Utilities | Transmission Owner   |

### Non-Voting Attendees

| Last Name    | First Name | Company                                   | Sector             |
|--------------|------------|---|--------------------|
| abdur-rahman | muhsin     | ABB Enterprise Software Inc.              | None               |
| Ament        | Todd       | Mahoning Creek Hydroelectric Company, LLC | Generation Owner   |
| Anderson     | Bob        | Tenaska Power Services Co.                | Generation Owner   |
| Anderson     | Juliet     | Constellation Energy Generation, LLC      | Generation Owner   |
| Bainbridge   | Tom        | American Transmission Systems, Inc.       | Transmission Owner |
| Baker        | Hayden     | Troutman Pepper                           | None               |
| Baker        | Jeff       | Duke Energy Ohio, Inc.                    | Transmission Owner |
| Barker       | Jason      | Constellation Energy Generation, LLC      | Generation Owner   |

|             |           |  |                      |
|-------------|-----------|--|----------------------|
| Barrow      | Kim       | Commonwealth of PA                           | None                 |
| Bleiweis    | Bruce     | DC Energy LLC                                | Other Supplier       |
| Boyle       | Sean      | Constellation Energy Generation, LLC         | Generation Owner     |
| Boyle       | Stephen   | Merion Energy Solutions                      | None                 |
| Brady       | George    | Ohio Valley Electric Corp                    | Transmission Owner   |
| Brodbeck    | John      | EDP Renewables North America, LLC            | Generation Owner     |
| Burnham     | Kat       | Advanced Energy Economy (AEE)                | None                 |
| Callen      | Zachary   | Illinois Commerce Commission                 | None                 |
| Canter      | David     | AEP Appalachian Transmission Company, Inc.   | Transmission Owner   |
| carmean     | Gregory   | OPSI   | None                 |
| Carrier     | Ronald    | Big Lake Consulting Group, LLC               | None                 |
| Carson      | Donna     | East Kentucky Power Cooperative, Inc.        | Transmission Owner   |
| Chang       | Sean      | Shell Energy North America (US), L.P.        | Other Supplier       |
| Chapman     | Taylor    | Charles River Associates                     | None                 |
| Christopher | Mahila    | Public Utilities Commission of Ohio (The)    | None                 |
| Concina     | Wendell   | Commonwealth Edison Company                  | Transmission Owner   |
| Corash      | Rich      | Public Service Electric and Gas Company      | Transmission Owner   |
| Corder      | Nick      | Commonwealth Chesapeake Company, LLC         | Generation Owner     |
| Cosby       | Sarah     | Dominion Virginia Power                      | None                 |
| Crystle     | Gil       | UGI Development Company                      | Generation Owner     |
| Curtis      | Kenneth   | Drilling Info, Inc.                          | None                 |
| dadourian   | john      | Monitoring Analytics, LLC                    | None                 |
| dailey      | Michael   | Northern Virginia Electric Cooperative       | Electric Distributor |
| Davis       | David     | Strata Solar                                 | None                 |
| Denby       | Brett     | NOVEC  | None                 |
| Diorio      | Michelle  | Public Service Electric and Gas Company      | Transmission Owner   |
| Dillon      | Matthew   | UGI Development Company                      | Generation Owner     |
| DiNicola    | Laura     | FirstEnergy Corporation                      | Transmission Owner   |
| Domian      | Christin  | Duquesne Light Company                       | Transmission Owner   |
| Domer       | Amber     | Consolidated Edison Company of New York, Inc | Transmission Owner   |
| Drom        | Rick      | Rick Drom                                    | None                 |
| Duensing    | Allison   | Saracen Energy East LP                       | Other Supplier       |
| Dugan       | Chuck     | East Kentucky Power Cooperative, Inc.        | Transmission Owner   |
| Eaker       | Katie     | Tenaska Power Services Co.                   | Generation Owner     |
| Edmonds     | Brian     | DC Public Service Commission                 | None                 |
| Ericson     | Christine | Illinois Commerce Commission                 | None                 |
| Esquivel    | Manuel    | Enel X North America, Inc.                   | Other Supplier       |
| Evergam     | Scott     | The Federal Energy Regulatory Commission     | None                 |
| Eyocko      | Jacky     | The Federal Energy Regulatory Commission     | None                 |
| Fazio       | Danielle  | Noble Americas Gas & Power Corp.             | Other Supplier       |
| Ferguson    | Mike      | Indeck Energy Services, Inc.                 | Other Supplier       |
| Filomena    | Guy       | Customized Energy Solutions, Ltd.*           | None                 |
| Fink        | Regan     | Pine Gate Mid-Atlantic, LLC                  | Other Supplier       |
| Fink        | Sari      | American Clean Power Association             | None                 |
| Fishback    | Luke      | Affirmed Energy LLC                          | Other Supplier       |
| Fitch       | Neal      | NRG Power Marketing LLC                      | Generation Owner     |
| Ford        | Adrien    | Old Dominion Electric Cooperative            | Electric Distributor |
| Foster      | Denise    | East Kentucky Power Cooperative, Inc.        | Transmission Owner   |
| Fuerst      | Gary      | American Transmission Systems, Inc.          | Transmission Owner   |
| Fuess       | Christian | PBF Power Marketing, LLC                     | Generation Owner     |
| Garnett     | Bryan     | Duke Energy Ohio, Inc.                       | Transmission Owner   |
| Garth       | William   | Indeck Niles, LLC                            | Generation Owner     |
| Gates       | Terry     | AEP Appalachian Transmission Company, Inc.   | Transmission Owner   |
| Glazener    | Pat       | Energy Authority, Inc. (The)                 | Other Supplier       |
| Gordon      | Jon       | Shipley Choice, LLC                          | Other Supplier       |
| Gorman      | Brad      | FirstEnergy Corporation                      | Transmission Owner   |

|             |            |  |                      |
|-------------|------------|--|----------------------|
| Greene      | Ben        | AEP Appalachian Transmission Company, Inc.                 | Transmission Owner   |
| Guntle      | Vince      | American PowerNet Management                               | End-Use Customer     |
| Hanser      | Erik       | Michigan Public Service Commission                         | None                 |
| Hastings    | David      | Market Interconnection Consulting Services (MICS)          | None                 |
| Helms       | Joseph     | Rainbow Energy Marketing Corporation                       | Other Supplier       |
| Herbert     | Sebastian  | DC Energy LLC  | Other Supplier       |
| Hohenshilt  | Jennifer   | Talen Energy Marketing, LLC                                | Generation Owner     |
| Holdbrook   | Ruth       | Northern Virginia Electric Cooperative                     | Electric Distributor |
| Horstmann   | John       | Dayton Power & Light Company (The)                         | Transmission Owner   |
| Hudis       | Gabriella  | Jersey Green Energy LLC                                    | Other Supplier       |
| Hugee       | Jacqui     | Virginia Electric & Power Company                          | Transmission Owner   |
| Hull        | Gerit      | American Municipal Power, Inc.                             | Electric Distributor |
| Hurwich     | Mark       | Elliott Bay Energy Trading, LLC                            | Other Supplier       |
| Hyatt       | Earl       | Monitoring Analytics, LLC                                  | None                 |
| Hyzinski    | Tom        | GT Power Group   | None                 |
| Iler        | Arthur     | Indiana Office of Utility Consumer Counselor               | End-Use Customer     |
| Jablonski   | Ward       | MEPPI  | None                 |
| Janapareddy | Anu        | Green River Holdings, LLC                                  | Generation Owner     |
| Janicki     | Diane      | Boston Energy Trading & Marketing, LLC                     | Other Supplier       |
| Johnson     | Carl       | Customized Energy Solutions, Ltd.*                         | None                 |
| Johnston    | David      | Indiana Utility Regulatory Commission                      | None                 |
| Jones       | Scott      | Indiana Office of Utility Consumer Counsel                 | End-Use Customer     |
| Josyula     | Siva       | Monitoring Analytics, LLC                                  | None                 |
| Kalaskar    | Rahul      | AES Ohio Generation, LLC                                   | Generation Owner     |
| Keenan      | Matthew    | Jpower USA   | None                 |
| Keenan      | Matthew    | Jpower USA   | None                 |
| Kelly       | Stephen    | Brookfield Energy Marketing LP                             | Other Supplier       |
| Kent        | Janessa    | Duquesne Light Company                                     | Transmission Owner   |
| Kilgallen   | Kevin      | Avangrid Renewables LLC                                    | Generation Owner     |
| Koeplinger  | Alexandria | Michigan Public Service Commission                         | None                 |
| Kooistra    | Russ       | Troutman Pepper  | None                 |
| Koz         | Brian      | Alphataraxia Palladium LLC                                 | None                 |
| Kroh        | Judson     | Seward Generation, LLC                                     | Generation Owner     |
| Laios       | Takis      | AEP Appalachian Transmission Company, Inc.                 | Transmission Owner   |
| Lawson      | Ryen       | Dominion Virginia Power                                    | None                 |
| Lawton      | Nick       | Earthjustice   | None                 |
| Liang-Nicol | Cecilia    | Monongahela Power Company d/b/a Allegheny Power            | Transmission Owner   |
| libbos      | Robin      | Monongahela Power Company d/b/a Allegheny Power            | Transmission Owner   |
| Lieberman   | Steven     | American Municipal Power, Inc.                             | Electric Distributor |
| Lin         | Mike       | SESCO Enterprises, LLC                                     | Other Supplier       |
| Long        | Scott      | Allegheny Electric Cooperative, Inc.                       | Electric Distributor |
| Louwahi     | Soufiane   | Electric Power Engineers Consulting                        | None                 |
| Mariam      | Yohannes   | Office of the Peoples Counsel for the District of Columbia | End-Use Customer     |
| Mason       | Gary       | FirstEnergy Corporation                                    | Transmission Owner   |
| Matheson    | Eric       | Pennsylvania Public Utility Commission                     | None                 |
| Matuszak    | Alex       | UGI Energy Services, LLC                                   | Other Supplier       |
| McCormick   | Katharine  | Illinois Commerce Commission                               | None                 |
| McDewell    | Christian  | Commonwealth of PA   | None                 |
| McNeil      | Justin     | Office of the Attorney General, Kentucky                   | End-Use Customer     |
| McNicholas  | Daniel     | Cogentrix Virginia Financing Holding Company, LLC          | Other Supplier       |
| Mefford     | Mark       | East Kentucky Power Cooperative, Inc.                      | Electric Distributor |
| Midgley     | Sharon     | Exelon Business Services Company, LLC                      | Transmission Owner   |
| Mohan       | Charles    | Seward Generation, LLC                                     | Generation Owner     |
| Mooney      | Jeffrey    | FirstEnergy Corporation                                    | Transmission Owner   |
| Moye        | Bob        | Rainbow Energy Marketing Corporation                       | Other Supplier       |
| Nadel       | Steven     | PPL Electric Utilities Corp. dba PPL Utilities             | Transmission Owner   |

|             |           |  |                      |
|-------------|-----------|--|----------------------|
| Nader       | Jordan    | RunnerStone, LLC   | None                 |
| Nix         | Emma      | Gable and Associates                                     | None                 |
| Okenfuss    | James     | Savion, LLC  | None                 |
| Olinger     | Robert    | Gen Ops, LLC   | Other Supplier       |
| Ondayko     | Brock     | AEP Appalachian Transmission Company, Inc.               | Transmission Owner   |
| Opsal       | Ryan      | Maryland Energy Administration                           | None                 |
| Panahi      | Jennifer  | Troutman Pepper  | None                 |
| Panegal     | Ash       | Apex Clean Energy  | None                 |
| Parker      | Amanda    | Pennsylvania Electric Company                            | Electric Distributor |
| Parrot      | Sarah     | Public Utilities Commission of Ohio                      | None                 |
| Peoples     | John      | Duquesne Light Company                                   | Transmission Owner   |
| Phillips    | Amanda    | Wabash Valley Power Association, Inc.                    | Electric Distributor |
| Price       | Ruth      | Division of the Public Advocate of the State of Delaware | End-Use Customer     |
| Procutiar   | Jason     | Buckeye Power, Inc.                                      | Electric Distributor |
| Raghavan    | Vijay     | BioUrga Trading LLC                                      | Other Supplier       |
| Rasmussen   | Jay       | Duke Energy Business Services LLC                        | Transmission Owner   |
| Reagan      | Ryann     | New Jersey Board of Public Utilities                     | None                 |
| Reeping     | Bob       | Ohio Edison Company                                      | Transmission Owner   |
| Rogers      | Aaron     | East Kentucky Power Cooperative, Inc.                    | Transmission Owner   |
| Rohrbach    | John      | Aces Power Marketing                                     | None                 |
| Rutigliano  | Tom       | Achieving Equilibrium LLC                                | None                 |
| Rutledge    | Craig     | AEP Appalachian Transmission Company, Inc.               | Transmission Owner   |
| Sammartino  | Mike      | Maryland Office of People's Counsel                      | None                 |
| Sasser      | Jonathan  | Customized Energy Solutions, Ltd.*                       | None                 |
| Scheidecker | Paul      | Monitoring Analytics, LLC                                | None                 |
| Schmitt     | David     | New Jersey Board of Public Utilities                     | None                 |
| Schultheis  | Daniel    | Constellation Energy Services, Inc.                      | Other Supplier       |
| Schum       | Alice     | Illinois Municipal Electric Agency                       | Electric Distributor |
| Selick      | Sam       | Customized Energy Solutions, Ltd.*                       | None                 |
| Shah        | Pulin     | PECO Energy Company                                      | Transmission Owner   |
| Shanker     | Roy       | H.Q. Energy Services (U.S.), Inc.                        | Other Supplier       |
| Shegarfi    | Roosbeh   | Exelon Business Services Company, LLC                    | Transmission Owner   |
| Singh       | Harliv    | Northern States Power Company                            | Other Supplier       |
| Skucas      | Ruta      | K & L Gates  | None                 |
| Skumanich   | William   | RTR Energy Solutions LLC                                 | None                 |
| Sloan       | Ben       | Organization of PJM States, Inc. (OPSI)                  | None                 |
| Smith       | Kara      | Buckeye Power, Inc.                                      | Electric Distributor |
| Sotkiewicz  | Paul      | E-Cubed Policy Associates                                | None                 |
| Sparks      | Bridget   | Dayton Power & Light Company (The)                       | Transmission Owner   |
| Spencer     | Doug      | Southeastern Power Administration                        | Other Supplier       |
| Stadelmeyer | Rebecca   | Gable and Associates                                     | None                 |
| Stein       | Michael   | Indeck Niles, LLC  | Other Supplier       |
| Stern       | Alexander | Public Service Electric and Gas Company                  | Transmission Owner   |
| Stines      | Zachary   | Borrego Solar Systems, Inc.                              | None                 |
| Strom       | Ryan      | Buckeye Power, Inc.                                      | Electric Distributor |
| Stupar      | Rob       | Invenergy, LLC   | Generation Owner     |
| Sturgeon    | John      | Duke Energy Carolinas, LLC                               | Other Supplier       |
| Sun         | Haibin    | Constellation Energy Services, Inc.                      | Other Supplier       |
| Sussler     | Philip    | State of Maryland  | None                 |
| Sweeney     | Rory      | GT Power Group   | None                 |
| Swenson     | Nils      | Commonwealth Chesapeake Company, LLC                     | Generation Owner     |
| Swigonski   | Frank     | Advanced Energy Economy, Inc.                            | None                 |
| Szeto       | Connie    | PBF Power Marketing, LLC                                 | Generation Owner     |
| Tashakkori  | Cyrus     | Open Road Renewables, LLC                                | None                 |
| Theodore    | Sharon    | Electric Power Supply Association                        | None                 |
| Traynor     | Daniel    | St. Joseph Energy Center, LLC                            | Generation Owner     |

|            |          |                                       |                      |
|------------|----------|---------------------------------------|----------------------|
| Tubridy    | Meg      | Rockland Electric Company             | Transmission Owner   |
| VanBlargan | Bryna    | Resource Investments                  | None                 |
| VanderLaan | William  | Illinois Commerce Commission          | None                 |
| Vargo      | Daniel   | Allegheny Electric Cooperative, Inc.  | Electric Distributor |
| Vayda      | Brian    | Borough of Park Ridge, NJ             | Electric Distributor |
| Velazquez  | Daveg    | Exelon Business Services Company, LLC | Transmission Owner   |
| Vos        | Nico     | Indeck Niles, LLC                     | Other Supplier       |
| Walcavich  | Colin    | National Grid Renewables, LLC         | None                 |
| Walker     | Jennifer | Exelon Business Services Company, LLC | Transmission Owner   |
| Webb       | Becky    | Commonwealth Edison Company           | Transmission Owner   |
| Wehnes     | Kathleen | Maryland Public Service Commission    | None                 |
| Weinant    | Eric     | Illinois Municipal Electric Agency    | Electric Distributor |
| Wilkinson  | Eric     | Orsted US Trading LLC                 | Other Supplier       |
| Wilson     | James    | Wilson Energy Economics               | None                 |
| Yasutake   | Sarah    | Gabel and Associates                  | None                 |
| Zemanek    | Kevin    | Buckeye Power, Inc.                   | Electric Distributor |

## PJM Attendees

| Last Name   | First Name | Company                  | Sector |
|-------------|------------|--------------------------|--------|
| Afelumo     | Foluso     | PJM Interconnection, LLC | None   |
| Anders      | David      | PJM Interconnection, LLC | None   |
| Baker       | Scott      | PJM Interconnection, LLC | None   |
| Bennett     | Dan        | PJM Interconnection, LLC | None   |
| Bernabeu    | Emanuel    | PJM Interconnection, LLC | None   |
| Berner      | Aaron      | PJM Interconnection, LLC | None   |
| Bernstein   | Matthew    | PJM Interconnection, LLC | None   |
| Bielak      | Donnie     | PJM Interconnection, LLC | None   |
| Boyle       | Glen       | PJM Interconnection, LLC | None   |
| Bresler     | Stu        | PJM Interconnection, LLC | None   |
| Brown       | Rich       | PJM Interconnection, LLC | None   |
| Bruno       | Joshua     | PJM Interconnection, LLC | None   |
| Burdis      | Tim        | PJM Interconnection, LLC | None   |
| Callis      | Joe        | PJM Interconnection, LLC | None   |
| Cao         | Roger      | PJM Interconnection, LLC | None   |
| Carroll     | Rebecca    | PJM Interconnection, LLC | None   |
| Chmielewski | Brian      | PJM Interconnection, LLC | None   |
| ciabattoni  | Joseph     | PJM Interconnection, LLC | None   |
| Coyne       | Suzanne    | PJM Interconnection, LLC | None   |
| Croop       | Danielle   | PJM Interconnection, LLC | None   |
| D'Antonio   | Philip     | PJM Interconnection, LLC | None   |
| DeVita      | Thomas     | PJM Interconnection, LLC | None   |
| Downs       | Jere       | PJM Interconnection, LLC | None   |
| Dumitriu    | Nicolae    | PJM Interconnection, LLC | None   |
| Egan        | Amanda     | PJM Interconnection, LLC | None   |
| Esterly     | Theresa    | PJM Interconnection, LLC | None   |
| Fabiano     | Janell     | PJM Interconnection, LLC | None   |
| Falin       | Tom        | PJM Interconnection, LLC | None   |
| Fan         | Zhenyu     | PJM Interconnection, LLC | None   |
| Fereshetian | Damon      | PJM Interconnection, LLC | None   |
| Fitzpatrick | Brian      | PJM Interconnection, LLC | None   |
| Flamm       | Sean       | PJM Interconnection, LLC | None   |
| Franks      | Christine  | PJM Interconnection, LLC | None   |
| Frogg       | Darrell    | PJM Interconnection, LLC | None   |
| Gates       | Jill       | PJM Interconnection, LLC | None   |
| Glatz       | Sue        | PJM Interconnection, LLC | None   |

|               |          |                          |      |
|---------------|----------|--------------------------|------|
| Gledhill      | Andrew   | PJM Interconnection, LLC | None |
| Gluck         | Jim      | PJM Interconnection, LLC | None |
| Greening      | Michele  | PJM Interconnection, LLC | None |
| Guignet       | Douglas  | PJM Interconnection, LLC | None |
| Hatch         | Kevin    | PJM Interconnection, LLC | None |
| Hauske        | Dave     | PJM Interconnection, LLC | None |
| Hauske        | Tom      | PJM Interconnection, LLC | None |
| Heater        | Megan    | PJM Interconnection, LLC | None |
| Herel         | Suzanne  | PJM Interconnection, LLC | None |
| Herman        | Michael  | PJM Interconnection, LLC | None |
| Herrera       | Maria    | PJM Interconnection, LLC | None |
| Hislop        | David    | PJM Interconnection, LLC | None |
| Hoang         | Liem     | PJM Interconnection, LLC | None |
| Holter        | Natasha  | PJM Interconnection, LLC | None |
| Horger        | Tim      | PJM Interconnection, LLC | None |
| Hsia          | Eric     | PJM Interconnection, LLC | None |
| Hu            | Yong     | PJM Interconnection, LLC | None |
| Kane          | Timothy  | PJM Interconnection, LLC | None |
| Kenney        | Susan    | PJM Interconnection, LLC | None |
| Kim           | Sung     | PJM Interconnection, LLC | None |
| Lai           | Erin     | PJM Interconnection, LLC | None |
| Lawson        | Steven   | PJM Interconnection, LLC | None |
| Lee           | Ray      | PJM Interconnection, LLC | None |
| Lockwood      | Dan      | PJM Interconnection, LLC | None |
| Lynch         | Jessica  | PJM Interconnection, LLC | None |
| Lynn          | Brian    | PJM Interconnection, LLC | None |
| Martin        | Amanda   | PJM Interconnection, LLC | None |
| McComb        | John     | PJM Interconnection, LLC | None |
| McElwaine     | Kathy    | PJM Interconnection, LLC | None |
| McGill        | Susan    | PJM Interconnection, LLC | None |
| McGlynn       | Paul     | PJM Interconnection, LLC | None |
| McGovern      | Jason    | PJM Interconnection, LLC | None |
| McLaughlin    | Jeffrey  | PJM Interconnection, LLC | None |
| McLaverty     | Megan    | PJM Interconnection, LLC | None |
| Messina       | Emmy     | PJM Interconnection, LLC | None |
| Miller        | Ben      | PJM Interconnection, LLC | None |
| Morelli       | Lisa     | PJM Interconnection, LLC | None |
| Muhl          | Nancy    | PJM Interconnection, LLC | None |
| Pacella       | Chris    | PJM Interconnection, LLC | None |
| Patel         | Anita    | PJM Interconnection, LLC | None |
| Perera        | Asanga   | PJM Interconnection, LLC | None |
| Phillips      | Darlene  | PJM Interconnection, LLC | None |
| Phillips      | Darlene  | PJM Interconnection, LLC | None |
| Pincus        | Steven   | PJM Interconnection, LLC | None |
| Rios          | Vireli   | PJM Interconnection, LLC | None |
| Rocha-Garrido | Patricio | PJM Interconnection, LLC | None |
| Schmitt       | Jeffrey  | PJM Interconnection, LLC | None |
| Schuyler      | Ken      | PJM Interconnection, LLC | None |
| Shah          | Vijay    | PJM Interconnection, LLC | None |
| Snow          | Jim      | PJM Interconnection, LLC | None |
| Souder        | Michelle | PJM Interconnection, LLC | None |
| Souder        | Rich     | PJM Interconnection, LLC | None |
| Stefanowicz   | Vincent  | PJM Interconnection, LLC | None |
| Stemetzki     | Michael  | PJM Interconnection, LLC | None |
| Stone         | Andy     | PJM Interconnection, LLC | None |
| Terranova     | Chris    | PJM Interconnection, LLC | None |



# Minutes

|            |          |                          |      |
|------------|----------|--------------------------|------|
| Tribulski  | Jennifer | PJM Interconnection, LLC | None |
| Warshel    | Kim      | PJM Interconnection, LLC | None |
| Waweru     | James    | PJM Interconnection, LLC | None |
| Wharton    | Matthew  | PJM Interconnection, LLC | None |
| Xu         | Xu       | PJM Interconnection, LLC | None |
| Yeager     | Jeff     | PJM Interconnection, LLC | None |
| Yovanovich | Laura    | PJM Interconnection, LLC | None |