

Market Implementation Committee
WebEx Only
May 11, 2022
9:00 a.m. – 4:00 p.m. EPT

Administration

Nicholas DiSciullo reviewed the Antitrust, Code of Conduct, Public Meetings/Media Participation and the WebEx Participant Identification Requirements.

The Committee approved the draft minutes from the April 13, 2022 Market Implementation Committee with **0 objections and 0 abstentions**.

1. **Guidance for In Person Stakeholder Meeting Attendance**

Michele Greening provided an update on the return to campus plan for stakeholder meetings.

Endorsements/Approvals

2. **Manual 29 Revisions**

Natasha Holter reviewed revisions to Manual 29: Billing as part of the periodic review.

The committee endorsed the Manual 29 revisions by acclamation with 0 objections and 0 abstentions.

3. **Manuals 11 and 28: Stability Limit Changes**

Zhenyu Fan and Rebecca Stadelmeyer reviewed conforming updates to Manual 11: Energy & Ancillary Services Market Operations and Manual 28: Operating Agreement Accounting. There was limited stakeholder discussion regarding the desire for additional manual language revisions addressing operational actions to be taken prior to using generator output constraints.

The committee endorsed these revisions by acclamation with 1 objection and 0 abstentions.

[Issue Tracking: Stability Limits in Markets and Operations](#)

4. **Manuals 11 and 28: Intelligent Reserve Deployment Changes**

Damon Fereshetian and Rebecca Stadelmeyer reviewed updates to Manual 11: Energy & Ancillary Services Market Operations and Manual 28: Operating Agreement Accounting.

The committee endorse these revisions by acclamation with 0 objections and 0 abstentions.

[Issue Tracking: Synchronized Reserve Event Actions and Expectations](#)

5. **Market Suspension**

Stefan Starkov reviewed the PJM/IMM Package addressing the treatment of long-term market suspensions. A stakeholder requested PJM and the IMM consider triggering the longer term market suspension rules after 2 days instead of 7 days. PJM and the IMM will discuss offline and provide an update at the next meeting.

The committee deferred the endorsement vote for the PJM/IMM Package to the June MIC meeting.

[Issue Tracking: Rules Related to Market Suspension](#)

First Readings

6. **Variable Environmental Costs and Credits**

Melissa Pilog provided a first read of a proposal providing detailed guidance and updates to rules related to variable environmental charges and/or credits and their inclusion in cost-based energy offers. A few stakeholders indicated a desire to have further offline discussion with PJM to gain comfort with the proposal. This item will return to the June MIC meeting for another first read.

7. **Manuals 18 and 28: Load Management / Price Responsive Demand Testing Changes**

Jack O'Neill provided a first read of conforming changes to Manual 18: PJM Capacity Market and Manual 28: Operating Agreement Accounting to support the implementation of new testing requirements which were approved in Docket No. ER19-1590 and will become effective with the 2023/2023 Delivery Year. The committee will be asked to endorse the revisions at its next meeting.

[Issue Tracking: Load Management Testing Requirements](#)

Working Items

8. **Quadrennial Review**

- a. Rebecca Carroll reviewed the Quadrennial Review work plan.
- b. Melissa Pilog provided an overview of PJM's proposal resulting from the Quadrennial Review of the capacity market.

[Issue Tracking: 2022 Quadrennial Review](#)

9. **Operating Reserve Clarification for Resources Operating as Requested by PJM**

- a. Brian Weathers provided education on the incentives that currently exist in the PJM market for resources to operate as requested by PJM, including the assessment of balancing operating reserve deviation charges.
- b. Madalyn Beban reviewed how other ISOs/RTOs measure whether resources operate as requested and some associated incentives.
- c. Joel Luna reviewed balancing operating reserve credit and deviation charge metrics.
- d. Nick DiSciullo facilitated a discussion around the Interest Identification portion of the Consensus Based Issue Resolution process. A post-meeting version of the matrix has been posted to the meeting materials. The committee will continue working the Consensus Based Issue Resolution (CBIR) process at its next meeting. Additional interests can be provided in advance of the meeting.

[Issue Tracking: Operating Reserve Clarification for Resources Operating as Requested by PJM](#)

10. **Capacity Offer Opportunities for Generation with Co-Located Load**

Lisa Morelli facilitated a discussion to begin developing solution options for the Capacity Offer Opportunities for Generation with Co-Located Load matrix. A post-meeting version of the matrix has been posted to the meeting materials. The committee will continue working the Consensus Based Issue Resolution (CBIR) process by reviewing and providing additional solution options at

its next meeting. Additional interests, design components, and solution options can be provided in advance of the meeting.

[Issue Tracking: Capacity Offer Opportunities for Generation with Co-Located Load](#)

Additional Items

11. Reserve Price Formation Implementation Plan

Brian Chmielewski provided an overview of upcoming education sessions that will address the details surrounding the October 2022 implementation of several reserve market price formation changes (FERC Docket No EL19-58).

12. Cost Development Subcommittee Update

Nicole Scott provided an informational update on the work to be performed at the Cost Development Subcommittee.

Informational Section

Interregional Coordination Update

Materials are posted as informational only.

Fast Start Pricing Monthly Metrics Update

Materials are posted as informational only.

PJM Net Energy Injections Quarterly Review

Materials are posted as informational only.

ARR FTR Market Task Force (AFMTF)

Meeting materials are posted to the [AFMTF website](#).

Reactive Power Compensation Task Force (RPCTF)

Meeting materials are posted to the [RPCTF website](#).

Cost Development Subcommittee (CDS)

Meeting materials are posted to the [CDS website](#).

Demand Response Subcommittee (DRS)

Meeting materials are posted to the [DRS website](#).

DER & Inverter-based Resources Subcommittee (DIRS)

Meeting materials are posted to the [DIRS website](#).

Market Settlements Subcommittee (MSS)

Meeting materials are posted to the [MSS website](#).

OC/MIC Fuel Requirements for Black Start Resources

Meeting materials are posted to the [Operating Committee website](#).

Report on Market Operations

The Report on Market Operations will be reviewed during the [MC Webinar](#).

| Future Meeting Dates and Materials | | | Materials Due to Secretary  | Materials Published |
|------------------------------------|--------|--------------------------------------|--|---------------------|
| Date | Time | Location | 5 p.m. | 4 p.m. |
| June 8 | 9 a.m. | WebEx / Conference & Training Center | May 26 | June 1 |
| July 13 | 9 a.m. | WebEx / Conference & Training Center | June 30 | July 6 |
| August 10 | 9 a.m. | WebEx / Conference & Training Center | July 29 | August 3 |
| September 7 | 9 a.m. | WebEx / Conference & Training Center | August 26 | August 31 |
| October 6 | 9 a.m. | WebEx / Conference & Training Center | September 26 | September 29 |
| November 2 | 9 a.m. | WebEx / Conference & Training Center | October 21 | October 26 |
| December 7 | 9 a.m. | WebEx / Conference & Training Center | November 23 | November 30 |

Author: Nicholas DiSciullo

WebEx Meeting Attendees

| Names | Company Name | Sector |
|---------------------------------|--|--------------------|
| Lisa Morelli (Chair) | PJM Interconnection, LLC | Not Applicable |
| DiSciullo, Nicholas (Secretary) | PJM Interconnection, LLC | Not Applicable |
| Anderson, Jared | S&P Global Inc. | None |
| Atewologun, Tobiloba (Tobi) | Williams | None |
| Barker, Jason | Constellation Energy Generation, LLC | Generation Owner |
| Bastian, Jeff | PJM Interconnection, LLC | None |
| Beban, Madalyn | PJM Interconnection, LLC | None |
| Benchek, Jim | American Transmission Systems, Inc. | Transmission Owner |
| Bleiweis, Bruce | DC Energy LLC | Other Supplier |
| Bowker, Shannon | PJM Interconnection, LLC | None |
| Bowring, Joe | Monitoring Analytics, LLC | None |
| Boyle, Glen | PJM Interconnection, LLC | None |
| Brodbeck, John | EDP Renewables North America, LLC | Generation Owner |
| Bruno, Patrick | PJM Interconnection, LLC | None |
| Bryant, Eric | Energy Harbor LLC | Generation Owner |
| Bryson, Michael (Mike) | PJM Interconnection, LLC | None |
| Callen, Zachary (Zac) | Illinois Commerce Commission | None |
| Campbell, Bruce | EnergyConnect, Inc. | Other Supplier |
| Canter, David | AEP Appalachian Transmission Company, Inc. | Transmission Owner |
| Carmean, Gregory | OPSI | None |
| Carrier, Ronald (Ron) | Big Lake Consulting | None |
| Carroll, Rebecca | PJM Interconnection, LLC | None |
| Caven, Augustine | PJM Interconnection, LLC | None |
| Chmielewski, Brian | PJM Interconnection, LLC | None |

| | | |
|--------------------------|--|----------------------|
| Christopher, Mahila | Public Utilities Commission of Ohio (The) | None |
| Ciabattoni, Joseph | PJM Interconnection, LLC | None |
| Cochran, Matthew | Panther Creek Power Operating, LLC | Generation Owner |
| Colaresi, Chandra | Cpower Energy Management | None |
| Connell, Jason | PJM Interconnection, LLC | None |
| Corash, Richard | PSEG Energy Resources & Trade LLC | Other Supplier |
| Curtis, Kenneth | Drilling Info, Inc. | None |
| Dailey, Michael | Northern Virginia Electric Cooperative | Electric Distributor |
| D'Antonio, Phil | PJM Interconnection, LLC | None |
| Davis, David | Strata Solar | None |
| Davis, James (Jim) | Dominion Energy Generation Marketing, Inc. | Generation Owner |
| Devault, Hannah | Commonwealth Edison Company | Transmission Owner |
| Dillon, Matthew | UGI Development Company | Generation Owner |
| Domian, Christin | Duquesne Light Company | Transmission Owner |
| Dorko, Keri | Monitoring Analytics, LLC | None |
| Drake, Anna | PJM Interconnection, LLC | None |
| Duensing, Allison | Saracen Energy East LP | Other Supplier |
| Egan, Amanda | PJM Interconnection, LLC | None |
| Ejebe, Gabriel | OATI Energy Trading | None |
| Esber, Ken | None | None |
| Esquivel, Manuel | Enel Trading North America, LLC | Other Supplier |
| Filomena, Guy | Customized Energy Solutions, Ltd.* | None |
| Fitch, Neal | NRG Power Marketing LLC | Generation Owner |
| Fitzpatrick, Brian | PJM Interconnection, LLC | None |
| Foladare, Kenneth (Ken) | Geenex Solar LLC | Other Supplier |
| Ford, Adrien | Old Dominion Electric Cooperative | Electric Distributor |
| Foster Cronin, Denise | East Kentucky Power Cooperative, Inc. | Transmission Owner |
| Franks, Christine | PJM Interconnection, LLC | None |
| Fuess, Christian | PBF Power Marketing, LLC | Generation Owner |
| Garnett, Bryan | Duke Energy Ohio, Inc. | Transmission Owner |
| Gates, Terry | AEP Appalachian Transmission Company, Inc. | Transmission Owner |
| Gilani, Rehan | ConEdison Energy, Inc. | Other Supplier |
| Glazer, Craig | PJM Interconnection, LLC | None |
| Gordon, Brad | PJM Interconnection, LLC | None |
| Graf, Walter | PJM Interconnection, LLC | None |
| Greening, Michele | PJM Interconnection, LLC | None |
| Greiner, Gary | PSEG Energy Resources & Trade LLC | Other Supplier |
| Halay, Alina | The Federal Energy Regulatory Commission | None |
| Hastings, David | Market Interconnection Consulting Services (MICS) | None |
| Hatch, Kevin | PJM Interconnection, LLC | None |
| Heinle, Frederick (Erik) | Office of the Peoples Counsel for the District of Columbia | End-Use Customer |
| Hicks, Colleen | PJM Interconnection, LLC | None |
| Hoatson, Thomas (Tom) | Riverside Generating, LLC | Generation Owner |
| Hohenshilt, Jennifer | Talen Energy Marketing, LLC | Generation Owner |
| Holdbrook, Ruth | Northern Virginia Electric Cooperative | Electric Distributor |
| Holter, Natasha | PJM Interconnection, LLC | None |
| Horger, Tim | PJM Interconnection, LLC | None |
| Horning, Lynn Marie | Customized Energy Solutions, Ltd.* | None |
| Horstmann, John | Dayton Power & Light Company (The) | Transmission Owner |
| Hough, Dennis | The Federal Energy Regulatory Commission | None |
| Hudis, Gabriella | Jersey Green Energy LLC | Other Supplier |

| | | |
|--------------------------|--|----------------------|
| Hurwich, Mark | Elliott Bay Energy Trading, LLC | Other Supplier |
| Hyzinski, Tom | GT Power Group | None |
| Iler, Arthur (Art) | Indiana Office of Utility Consumer Counsel | End-Use Customer |
| Janicki, Diane | Boston Energy Trading & Marketing, LLC | Other Supplier |
| Jardot, Gina | Essential Power Rock Springs, LLC | Generation Owner |
| Jett, William (Bill) | Duke Energy Business Services LLC | Transmission Owner |
| Johnson, Carl | Customized Energy Solutions, Ltd.* | None |
| Keech, Adam | PJM Interconnection, LLC | None |
| Keenan, Matthew | Jpower USA | None |
| Kelly, Stephen | Brookfield Energy Marketing LP | Other Supplier |
| Kent, Janessa | Duquesne Light Company | Transmission Owner |
| Kogut, George | New York Power Authority | Other Supplier |
| Lai, Erin | PJM Interconnection, LLC | None |
| Laios, Takis | AEP Appalachian Transmission Company, Inc. | Transmission Owner |
| Langbein, Pete | PJM Interconnection, LLC | None |
| Lejcar, Jamie | Allegheny Electric Cooperative, Inc. | Electric Distributor |
| Liang-Nicol, Cecilia | Monongahela Power Company d/b/a Allegheny Power | Transmission Owner |
| Libbos, Robin | FirstEnergy Corporation | Transmission Owner |
| Lowenthal-Savy, Danielle | Monitoring Analytics, LLC | None |
| Lu, Chen | PJM Interconnection, LLC | None |
| Luna, Joel | Monitoring Analytics, LLC | None |
| Mabry, David | McNees Wallace & Nurick LLC | None |
| Martin, Valerie | The Federal Energy Regulatory Commission | None |
| Matheson, Eric | Pennsylvania Public Utility Commission | None |
| Matuszak, Alex | UGI Energy Services, LLC | Other Supplier |
| McCarthy, Thomas (Tom) | Capital Power (US) Holdings Inc. | None |
| McDewell, Christian | Commonwealth of PA | None |
| McGlynn, Paul | PJM Interconnection, LLC | None |
| McLaverty, Megan | PJM Interconnection, LLC | None |
| McNeil, Justin | Office of the Attorney General, Kentucky | End-Use Customer |
| Midgley, Sharon | Exelon Business Services Company, LLC | Transmission Owner |
| Miller, John | Commonwealth Edison Company | Transmission Owner |
| Mok, Alan | Duke Energy Kentucky, Inc. | Transmission Owner |
| Mooney, Jeff | FirstEnergy Corporation | Transmission Owner |
| Moye, Bob | Rainbow Energy Marketing Corporation | Other Supplier |
| Muhl, Nancy | PJM Interconnection, LLC | None |
| O'Hara, Bernard (Bernie) | Sargent & Lundy | None |
| Okenfuss, James | Savion, LLC | None |
| Olinger, Robert | Gen Ops, LLC | Other Supplier |
| Ondayko, Brock | AEP Appalachian Transmission Company, Inc. | Transmission Owner |
| O'Neill, Jack | PJM Interconnection, LLC | None |
| Padilla, Leslie | Candela Renewables | None |
| Pakela, Greg | DTE Energy Trading, Inc. | Other Supplier |
| Pilong, Christopher | PJM Interconnection, LLC | None |
| Poulos, Greg | CAPS | None |
| Pratt, Nicholas (Nick) | PPL Electric Utilities Corp. dba PPL Utilities | Transmission Owner |
| Price, Ruth | Division of the Public Advocate of the State of Delaware | End-Use Customer |
| Procnuiar, Jason | Buckeye Power, Inc. | Electric Distributor |
| Purdie, Michael | Dominion Virginia Power | None |
| Ranaweera, Aruna | Hecate Energy | None |
| Reams, Will | Allegheny Electric Cooperative, Inc. | Electric Distributor |

| | | |
|----------------------------|--|----------------------|
| Roberts, Casey | Sierra Club | None |
| Robinson, Becky | Vista Energy Marketing, L.P. | Other Supplier |
| Rohrbach, John | Southern Maryland Electric Cooperative, Inc. | Electric Distributor |
| Rutledge, Craig | AEP Appalachian Transmission Company, Inc. | Transmission Owner |
| Salaneck, Alexandra | Monitoring Analytics, LLC | None |
| Sasser, Jonathan | Customized Energy Solutions, Ltd.* | None |
| Scarpignato, David (Scarp) | Calpine Energy Services, L.P. | Generation Owner |
| Schisler, Ken | Enel X North America, Inc. | Other Supplier |
| Schwarz, Stephanie | PJM Interconnection, LLC | None |
| Scott, Nicole | PJM Interconnection, LLC | None |
| Shah, Pulin | PECO Energy Company | Transmission Owner |
| Shaifer, James | NCRE Solar | None |
| Shanker, Roy | H.Q. Energy Services (U.S.), Inc. | Other Supplier |
| Sloan, Ben | Organization of PJM States, Inc. (OPSI) | None |
| Smith, Kara | Buckeye Power, Inc. | Electric Distributor |
| Snow, Jim | PJM Interconnection, LLC | None |
| Sotkiewicz, Paul | E-Cubed Policy Associates | None |
| Souder, Michelle | PJM Interconnection, LLC | None |
| Stadlmeyer, Rebecca | PJM Interconnection, LLC | None |
| Starkov, Stefan | PJM Interconnection, LLC | None |
| Stern, Alexander (Alex) | Public Service Electric & Gas Company | Transmission Owner |
| Stone, Andy | PJM Interconnection, LLC | None |
| Stuchell, Jeff | FirstEnergy Corporation | Transmission Owner |
| Suh, Jung | Calpine Energy Services, L.P. | Generation Owner |
| Svenson, Heather | Public Service Electric & Gas Company | Transmission Owner |
| Swalwell, Brad | Tangent Energy Solutions, Inc. | Other Supplier |
| Sweeney, Rory | GT Power Group | None |
| Swigonski, Frank | Advanced Energy Economy, Inc. | None |
| Thomas, Jack | PJM Interconnection, LLC | None |
| Tibbetts, Maeve | K & L Gates | None |
| Tribulski, Jennifer (Jen) | PJM Interconnection, LLC | None |
| Tyler, Catherine | Monitoring Analytics, LLC | None |
| VanderLaan, D. William | Illinois Commerce Commission | None |
| Walcavich, Colin | National Grid Renewables, LLC | None |
| Wehnes, Kathleen | Maryland Public Service Commission | None |
| Whitehead, Jeffrey | GT Power Group | None |
| Wilson, James | Wilson Energy Economics | None |
| Yoder, Michael | RTO Insider | None |
| Yovanovich, Laura | PJM Interconnection, LLC | 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.

Public Meetings/Media Participation:

Unless otherwise noted, PJM stakeholder meetings are open to the public and to members of the media. Members of the media are asked to announce their attendance at all PJM stakeholder meetings at the beginning of the meeting or at the point they join a meeting already in progress. Members of the Media are reminded that speakers at PJM meetings cannot be quoted without explicit permission from the speaker. PJM Members are reminded that "detailed

transcriptional meeting notes" and white board notes from "brainstorming sessions" shall not be disseminated. Stakeholders are also not allowed to create audio, video or online recordings of PJM meetings. PJM may create audio, video or online recordings of stakeholder meetings for internal and training purposes, and your participation at such meetings indicates your consent to the same.

Participant Identification in WebEx:

When logging into the WebEx desktop client, please enter your real first and last name as well as a valid email address. Be sure to select the "call me" option. PJM support staff continuously monitors WebEx connections during stakeholder meetings. Anonymous users or those using false usernames or emails will be dropped from the teleconference.

| During a Meeting | During an Acclamation Vote |
|--|--|
| <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>*1</p> <p>To enter the question queue (does not work during a vote)</p> </div> <div style="text-align: center;"> <p>*2</p> <p>To be removed from the question queue</p> </div> </div> <div style="text-align: center; margin-top: 20px;"> <p>*0</p> <p>To signal for PJM support staff assistance</p> </div> | <p>Please log in to the voting application at voting.pjm.com, so that you can be registered as the active voter prior to the start of the meeting.</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p>*7</p> <p>Yes</p> </div> <div style="text-align: center;"> <p>*8</p> <p>No</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p>*9</p> <p>Abstain</p> </div> <div style="text-align: center;"> <p>*0</p> <p>To signal for PJM support staff assistance</p> </div> </div> |
| <p>Asking A Question</p> <ul style="list-style-type: none"> Dialing *1 enters you into the question queue; the three dial tones are an auditory indication that you have successfully been placed in the queue. Questions are taken during the meeting when natural breaks occur and are asked in the order they are received. | |
| <p>Linking Teleconference Connection to Webex</p> <p>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.</p> | |
| <p>Join a Meeting</p> | <ol style="list-style-type: none"> Join meeting in the WebEx desktop client Enter name (<i>First and Last*</i>) and corporate email Call in to the operator-assisted number |

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

Provide feedback on the progress of this group: [Facilitator Feedback Form](#)
 Visit learn.pjm.com, an easy-to-understand resource about the power industry and PJM's role.