

Market Implementation Committee
WebEx Only / Conference & Training Center
August 10, 2022
9:00 a.m. – 3:30 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 July 13, 2022 Market Implementation Committee with **0 objections and 0 abstentions**.

2. Nicholas DiSciullo reviewed the MIC Work Plan.

Endorsements/Approvals

3. **Manual 15 Revisions**

Ilyana Dropkin reviewed conforming revisions to Manual 15: Cost Development Guidelines to address the Reserve Price Formation implementation, and Biennial Review revisions to Manual 15. **The committee endorsed the Manual 15 Reserve Price Formation revisions by acclamation with 0 objections and 0 abstentions.**

The committee endorsed the Manual 15 Biennial Review revisions by acclamation with 0 objections and 0 abstentions.

[Issue Tracking: Energy Price Formation](#)

4. **Day-ahead Zonal Load Bus Distribution Factors**

Amanda Martin reviewed a Problem Statement and Issue Charge addressing Day-ahead Zonal Load Bus Distribution Factors. Updates were made to the Key Work Activities and Scope section of the Issue Charge and a post-meeting version has been posted to the meeting materials.

The committee approved the revised Issue Charge by acclamation as part of the “CBIR Lite” process outlined in Section 8.6.2 of Manual 34 with 0 objections and 0 abstentions.

[Issue Tracking: Day-Ahead Zonal Load Bus Distribution Factors](#)

First Readings

5. **Fuel Requirements for Black Start Resources**

- a) Janell Fabiano provided background, polling results, and an overview of the voting process for this issue.

- b) Dan Bennett provided a first read of the PJM/Brookfield/DC OPC proposal.

- c) Joe Bowring, IMM, provided a first read of the IMM proposal.

The committee will be asked to vote on the proposals after its next meeting via an offline vote in the PJM Voting Application.

[Issue Tracking: Fuel Requirements for Black Start Resources](#)

6. **Variable Operations & Maintenance Cost Development**

- a) Roger Cao provided a first read of the PJM proposal addressing development of variable operations and maintenance costs that was developed through the Cost Development Subcommittee.
- b) Jason Barker, Constellation, provided a first read of the Constellation proposal addressing development of variable operations and maintenance costs that was developed through the Cost Development Subcommittee.

The committee will be asked to vote on the proposals at its next meeting.

[Issue Tracking: Variable Operating and Maintenance Cost](#)

7. Residential and Small Commercial Customer Measurement and Verification for Demand Response

Ken Schisler, CPower, provided a first read of a Problem Statement and Issue Charge addressing Residential and Small Commercial Customer Measurement and Verification for Demand Response. The committee will be asked to approve the Issue Charge at its next meeting.

8. Manual 18 and Manual 18B Revisions

Theresa Esterly reviewed revisions to Manual 18: PJM Capacity Market, and Manual 18B: Energy Efficiency Measurement & Verification as part of the periodic review. The committee will be asked to endorse the revisions at its next meeting.

9. Reserve Price Formation Manual Revisions

- a) Rebecca Stadelmeyer provided a first read of conforming revisions to Manual 27: Open Access Transmission Tariff Accounting, Manual 28: Operating Agreement Accounting, and Manual 29: Billing to address the Reserve Price Formation implementation.
- b) Damon Fereshetian and Michael Olaleye provided a first read of conforming revisions to Manual 11: Energy & Ancillary Services Market Operations to address the Reserve Price Formation implementation.

The committee will be asked to endorse the revisions at its next meeting.

[Issue Tracking: Energy Price Formation](#)

Working Items

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

Lisa Morelli facilitated a discussion to review packages for the Capacity Offer Opportunities for Generation with Co-Located Load matrix. The committee will continue working the Consensus Based Issue Resolution (CBIR) process by continuing to review packages at its next meeting. Additional packages can be provided in advance of the next meeting.

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

11. Operating Reserve Clarification for Resources Operating as Requested by PJM

Lisa Morelli reviewed a proposal to proceed with removal of the CT Rule in Manual 28 in advance of the remainder of the work on this issue charge. Nick DiSciullo solicited committee feedback on addressing the remaining work on this issue through special sessions of the MIC. The committee was supportive of that approach. The proposal to remove the CT Rule will be presented for an official first reading at the next meeting.

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

12. Cost Development Subcommittee Update

Heather Reiter provided an informational update on the work to be performed at the Cost Development Subcommittee.

13. Regulation Market Design Senior Task Force Update

Michael Herman provided an informational update on the efforts of the Regulation Market Design Senior Task Force.

Informational Section

Interregional Coordination Update

Materials are posted as informational only.

Fast Start Pricing Monthly Metrics Update

Materials are posted as informational only.

PJM Manual 03 Attachment E Automatic Sectionalizing Schemes

Materials are posted as informational only.

Stability Limits in Markets and Operations

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. |
| 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

In-Person Meeting Attendees

| Names | Company Name | Sector |
|---------------------------------|---|--------------------|
| Morelli, Lisa (Chair) | PJM Interconnection, LLC | Not Applicable |
| DiSciullo, Nicholas (Secretary) | PJM Interconnection, LLC | Not Applicable |
| Martin, Amanda | PJM Interconnection, LLC | None |
| Barker, Jason | Constellation Energy Generation, LLC | Generation Owner |
| Benchek, Jim | American Transmission Systems, Inc. | Transmission Owner |
| Bennett, Daniel | PJM Interconnection, LLC | None |
| Boyle, Glen | PJM Interconnection, LLC | None |
| Bresler, Stu | PJM Interconnection, LLC | None |
| Cao, Roger | PJM Interconnection, LLC | None |
| Carroll, Rebecca | PJM Interconnection, LLC | None |
| Chmielewski, Brian | PJM Interconnection, LLC | None |
| Dropkin, Ilyana | PJM Interconnection, LLC | None |
| Esterly, Theresa | PJM Interconnection, LLC | None |
| Fabiano, Janell | PJM Interconnection, LLC | None |
| Fereshetian, Damon | PJM Interconnection, LLC | None |
| Freeman, Jennifer | PJM Interconnection, LLC | None |
| Fuess, Christian | PBF Power Marketing, LLC | Generation Owner |
| Greening, Michele | PJM Interconnection, LLC | None |
| Hastings, David | Market Interconnection Consulting Services (MICS) | None |
| Hauske, Thomas | PJM Interconnection, LLC | None |
| Heidorn, Richard | RTO Insider | None |
| Holland, Risa | PJM Interconnection, LLC | None |
| Horger, Tim | PJM Interconnection, LLC | None |
| Horning, Lynn Marie | Customized Energy Solutions, Ltd.* | None |
| Kim, Sung | PJM Interconnection, LLC | None |
| Midgley, Sharon | Exelon Business Services Company, LLC | Transmission Owner |
| Muhl, Nancy | PJM Interconnection, LLC | None |
| Norris, John | RTO Insider | None |
| Olaley, Michael | PJM Interconnection, LLC | None |
| Poulos, Greg | CAPS | None |
| Reiter, Heather | PJM Interconnection, LLC | None |
| Scarpignato *Scarp), David | Calpine Energy Services, L.P. | Generation Owner |



Draft Meeting Minutes

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|----------------------|--------------------------|------|
| Souder, Michelle | PJM Interconnection, LLC | None |
| Stadelmeyer, Rebecca | PJM Interconnection, LLC | None |
| Starkov, Stefan | PJM Interconnection, LLC | None |
| Tacka, Natalie | PJM Interconnection, LLC | None |
| Terranova, Chris | PJM Interconnection, LLC | None |

WebEx Meeting Attendees

| Names | Company Name | Sector |
|-------------------------|--|----------------------|
| Abdur-Rahman, Muhsin | ABB Enterprise Software Inc. | None |
| Anders, David | PJM Interconnection, LLC | None |
| Baizman, Aaron | PJM Interconnection, LLC | None |
| Barrow, Kim | Commonwealth of PA | None |
| Bastian, Jeff | PJM Interconnection, LLC | None |
| Bielak, Donnie | PJM Interconnection, LLC | None |
| Bleiweis, Bruce | DC Energy LLC | Other Supplier |
| Bowker, Shannon | PJM Interconnection, LLC | None |
| Bowring, Joe | Monitoring Analytics, LLC | None |
| Breidenbaugh, Aaron | Rodan Energy Solutions (USA) Inc. | Other Supplier |
| Brodbeck, John | EDP Renewables North America, LLC | Generation Owner |
| Bryson, Michael (Mike) | PJM Interconnection, LLC | None |
| Campbell, Bruce | EnergyConnect, Inc. | Other Supplier |
| Canter, David | AEP Appalachian Transmission Company, Inc. | Transmission Owner |
| Carrier, Ronald (Ron) | Big Lake Consulting | None |
| Caven, Augustine | PJM Interconnection, LLC | None |
| Cerchio, Gerard | Monitoring Analytics, LLC | None |
| Chang, Sean | Shell Energy North America (US), L.P. | Other Supplier |
| Chee, Yee Hong | MCG Energy Solutions | None |
| Chmielewski, Brian | PJM Interconnection, LLC | None |
| Christopher, Mahila | Public Utilities Commission of Ohio (The) | None |
| Cocco, Michael | Old Dominion Electric Cooperative | Electric Distributor |
| Colaresi, Chandra | Cpower Energy Management | None |
| Conklin, Tyler | Public Utilities Commission of Ohio | None |
| Corash, Richard (Rich) | PSEG Energy Resources & Trade LLC | Other Supplier |
| D'Antonio, Phil | PJM Interconnection, LLC | None |
| Davirova, Nigora | PJM Interconnection, LLC | None |
| Davis, David | Strata Solar | None |
| Davis, Mike | Northern Virginia Electric Cooperative | Electric Distributor |
| Domian, Christin | Duquesne Light Company | Transmission Owner |
| Dugan, Chuck | East Kentucky Power Cooperative, Inc. | Transmission Owner |
| Egan, Amanda | PJM Interconnection, LLC | None |
| Ejebe, Gabriel | OATI Energy Trading | None |
| Esquivel, Manuel | Enel Trading North America, LLC | Other Supplier |
| Fazio, Danielle | Noble Americas Gas & Power Corp. | Other Supplier |
| Filomena, Guy | Customized Energy Solutions, Ltd.* | None |
| Fitzpatrick, Brian | PJM Interconnection, LLC | None |
| Foladare, Kenneth (Ken) | Geenex Solar LLC | Other Supplier |
| Ford, Adrien | Old Dominion Electric Cooperative | Electric Distributor |
| Garnett, Bryan | Duke Energy Ohio, Inc. | Transmission Owner |
| Gates, Terry | AEP Appalachian Transmission Company, Inc. | Transmission Owner |
| Gilani, Rehan | ConEdison Energy, Inc. | Other Supplier |
| Gorman, Brad | FirstEnergy Corporation | Transmission Owner |

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| Greiner, Gary | PSEG Energy Resources & Trade LLC | Other Supplier |
| Guntle, Vince | American PowerNet Management | End-Use Customer |
| Herman, Michael | PJM Interconnection, LLC | None |
| Hicks, Colleen | PJM Interconnection, LLC | None |
| Hoatson, Thomas (Tom) | Riverside Generating, LLC | Generation Owner |
| Hohenshilt, Jennifer | Talen Energy Marketing, LLC | Generation Owner |
| Horstmann, John | Dayton Power & Light Company (The) | Transmission Owner |
| Hough, Dennis | The Federal Energy Regulatory Commission | None |
| Huntoon, Stephen | Chesapeake Transmission LLC | Other Supplier |
| Hyzinski, Tom | GT Power Group | None |
| 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 |
| Jones, Scott | Indiana Office of Utility Consumer Counsel | End-Use Customer |
| Kalaskar, Rahul | AES Ohio Generation, LLC | Generation Owner |
| Keech, Adam | PJM Interconnection, LLC | None |
| Keenan, Matthew | Jpower USA | None |
| Kelly, Stephen | Brookfield Energy Marketing LP | Other Supplier |
| Kilgallen, Kevin | Avangrid Renewables LLC | Generation Owner |
| Kingston, Amber | North Carolina Electric Membership Corporation | Electric Distributor |
| Lai, Erin | PJM Interconnection, LLC | None |
| Laios, Takis | AEP Appalachian Transmission Company, Inc. | Transmission Owner |
| Langbein, Pete | PJM Interconnection, LLC | None |
| Lawton, Nick | Earthjustice | None |
| Lee, Ray | PJM Interconnection, LLC | None |
| Liang-Nicol, Cecilia | Monongahela Power Company d/b/a Allegheny Power | Transmission Owner |
| Libbos, Robin | FirstEnergy Corporation | Transmission Owner |
| Long, Glenn | PJM Interconnection, LLC | None |
| Loudenburg, Zack | Pennsylvania Renewable Resources, Associates | Generation Owner |
| Lu, Chenchao (Chen) | PJM Interconnection, LLC | None |
| Luna, Joel | Monitoring Analytics, LLC | None |
| Mabry, David | McNees Wallace & Nurick LLC | None |
| Mariam, Yohannes | Office of the Peoples Counsel for the District of Columbia | End-Use Customer |
| Martin, Valerie | The Federal Energy Regulatory Commission | None |
| Marzewski, Skyler | Monitoring Analytics, LLC | None |
| Mason, Gary | FirstEnergy Corporation | Transmission Owner |
| Matheson, Eric | Pennsylvania Public Utility Commission | None |
| Matuszak, Alex | UGI Energy Services, LLC | Other Supplier |
| McAnany, James | PJM Interconnection, LLC | None |
| McDewell, Christian | Commonwealth of PA | None |
| McGlynn, Paul | PJM Interconnection, LLC | None |
| McNeil, Justin | Office of the Attorney General, Kentucky | End-Use Customer |
| Miller, John | Commonwealth Edison Company | Transmission Owner |
| Moretti, Andrea | PJM Interconnection, LLC | None |
| Okenfuss, James | Savion, LLC | None |
| Ondayko, Brock | AEP Appalachian Transmission Company, Inc. | Transmission Owner |
| O'Neill, Jack | PJM Interconnection, LLC | None |
| Pakela, Gregory (Greg) | DTE Energy Trading, Inc. | Other Supplier |
| Pasupatham, Ram | Constellation Energy Generation, LLC | Generation Owner |
| Patel, Keyurbhai (Keyur) | PJM Interconnection, LLC | None |

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|---------------------------|--|----------------------|
| Pelletier, Eveline | Hydro-Quebec | None |
| Peoples, John | Duquesne Light Company | Transmission Owner |
| Philips, Marjorie (Marji) | Direct Energy Business Marketing, LLC | Other Supplier |
| Phillips, Amanda | Wabash Valley Power Association, Inc. | Electric Distributor |
| Picarelli, David | PJM Interconnection, LLC | None |
| Pilong, Christopher | PJM Interconnection, LLC | None |
| Pincus, Steven | PJM Interconnection, LLC | None |
| Pratt, Nicholas (Nick) | PPL Electric Utilities Corp. dba PPL Utilities | Transmission Owner |
| Purdie, Michael | Dominion Virginia Power | None |
| Rahimi, Farrokh | OATI Energy Trading | None |
| Rasmussen, Jay | Duke Energy Business Services LLC | Transmission Owner |
| Robinson, Becky | Vista Energy Marketing, L.P. | Other Supplier |
| Rogers, Aaron | East Kentucky Power Cooperative, Inc. | Transmission Owner |
| Rohrbach, John | Southern Maryland Electric Cooperative, Inc. | Electric Distributor |
| Sasser, Jonathan | Customized Energy Solutions, Ltd.* | None |
| Scheidecker, Paul | PJM Interconnection, LLC | None |
| Schisler, Ken | Enel X North America, Inc. | Other Supplier |
| Schroeder, Connie | Virginia Electric & Power Company | Transmission Owner |
| Servera, Max | Unicia Energy LP | Other Supplier |
| Shah, Vijay | PJM Interconnection, LLC | 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 |
| Sorrels, James | AEP Appalachian Transmission Company, Inc. | Transmission Owner |
| Sotkiewicz, Paul | E-Cubed Policy Associates | None |
| Stemetzki, Michael | PJM Interconnection, LLC | None |
| Stern, Alexander (Alex) | Public Service Electric & Gas Company | Transmission Owner |
| Stone, Andy | PJM Interconnection, LLC | None |
| Sturgeon, John | Duke Energy Carolinas, LLC | Other Supplier |
| Svenson, Heather | Public Service Electric & Gas Company | Transmission Owner |
| Swalwell, Brad | Tangent Energy Solutions, Inc. | Other Supplier |
| Sweeney, Rory | GT Power Group | None |
| Thompson, Matthew (Matt) | XO Energy MA, L.P. | Other Supplier |
| Tibbetts, Maeve | K & L Gates | None |
| Tyler, Catherine | Monitoring Analytics, LLC | None |
| Walcavich, Colin | National Grid Renewables, LLC | None |
| Waweru, James | PJM Interconnection, LLC | None |
| Wehnes, Kathleen | Maryland Public Service Commission | None |
| Whitehead, Jeffrey (Jeff) | GT Power Group | None |

Antitrust:

You may not discuss any topics that violate, or that might appear to violate, the antitrust laws including but not limited to agreements between or among competitors regarding prices, bid and offer practices, availability of service, product design, terms of sale, division of markets, allocation of customers or any other activity that might unreasonably restrain competition. If any of these items are discussed the chair will re-direct the conversation. If the conversation still persists, parties will be asked to leave the meeting or the meeting will be adjourned.

Code of Conduct:

As a mandatory condition of attendance at today's meeting, attendees agree to adhere to the PJM Code of Conduct as detailed in PJM Manual M-34 section 4.5, including, but not limited to, participants' responsibilities and rules regarding the dissemination of meeting discussion and materials.

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Draft Meeting Minutes

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| 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> |
| <h3>Asking A Question</h3> <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. | |
| <h3>Linking Teleconference Connection to Webex</h3> <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> | |
| Join a Meeting | <ol style="list-style-type: none"> 1. Join meeting in the WebEx desktop client 2. Enter name (<i>First and Last*</i>) and corporate email 3. Call in to the operator-assisted number |

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