

Market Implementation Committee
WebEx Only / Conference & Training Center
July 13, 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 June 8, 2022 Market Implementation Committee with **0 objections and 0 abstentions**.

1. Zeenath Fernandes provided an update on the retirement of Weak Encryption and its impact to Markets applications.

Endorsements/Approvals

2. Variable Environmental Costs and Credits

- a) Melissa Pilog reviewed 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.
- b) Joel Luna, IMM, provided education on the inclusion of Renewable Energy Certificates (RECs) and Production Tax Credits (PTCs) in cost-based offers.

The committee endorsed the proposal with 180 (82%) in favor, 39 (18%) opposed, and 5 abstentions. A second vote showed stakeholders preferred the proposal over the status quo with 178 (85%) in favor, 32 (15%) opposed, and 21 abstentions.

[Issue Tracking: Variable Environmental Costs and Credits](#)

3. Market Suspension

- a) Stefan Starkov reviewed the PJM/IMM Package addressing the treatment of long-term market suspensions.
- b) Sean Chang, Shell, provided details on a friendly amendment to the PJM/IMM Package to allow for the short-term suspension to use DA LMPs, if available, for suspensions lasting between 6 and 24 hours. The friendly amendment was accepted by PJM and the IMM, and the post-meeting version of the Matrix has been posted to the meeting materials.

The committee endorsed the Revised PJM/IMM Package by acclamation with 0 objections and 0 abstentions, including revisions to the original short-term solution endorsed by the MIC and to the longer-term proposal over the original solution endorsed by the MIC.

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

4. Manual 6 Revisions

Emmy Messina reviewed revisions to Manual 6: Financial Transmission Rights as part of the periodic review and ARR FTR Market Task Force-based conforming changes (Docket No. ER22-797-000).

The committee endorsed the Manual 6 revisions by acclamation with 0 objections and 0 abstentions.

5. **Manual 18 Revisions: Hybrid Resources**

Andrew Levitt provided an update on the recent hybrids filing (Docket No. ER22-1420) and reviewed conforming revisions to Manual 18: PJM Capacity Market.

The committee endorsed the Manual 18 revisions by acclamation with 0 objections and 15 abstentions.

[Issue Tracking: Solar-Battery Hybrid Resources](#)

6. **Manual 28 Revisions: Start-Up Cost Offer Development**

Rebecca Stadelmeyer reviewed revisions to Manual 28: Operating Agreement Accounting to support the Startup Cost Offer Development proposal the committee approved at the April 2022 meeting.

The committee endorsed the Manual 28 revisions by acclamation with 0 objections and 0 abstentions.

[Issue Tracking: Start-Up Cost Offer Development](#)

7. **DR/PRD Compliance Construct for Weather Sensitive Load**

Sharon Midgley, Exelon, reviewed a Problem Statement and Issue Charge addressing the exploration of an alternative DR/PRD compliance construct for weather sensitive load.

The committee approved the Issue Charge by acclamation with 22 objections and 0 abstentions.

[Issue Tracking: DR/PRD Compliance Construct for Weather Sensitive Load](#)

First Readings

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

Amanda Martin provided education and a first read of a Problem Statement and Issue Charge addressing Day-ahead Zonal Load Bus Distribution Factors. The committee will be asked to approve the issue charge as part of the “CBIR Lite” process outlined in Section 8.6.2 of Manual 34 at its next meeting.

9. **Reserve Price Formation Manual Revisions**

a) Damon Fereshetian reviewed the Reserve Price Formation Manual revision schedule and the plan to update Manual 11: Energy & Ancillary Services Market Operations. A first read of conforming revisions to Manuals 11, 28 and 29 will be provided at the August MIC.

b) Ilyana Dropkin provided a first read of conforming revisions to Manual 15: Cost Development Guidelines to address the Reserve Price Formation implementation, and a first read of Biennial revisions to Manual 15.

The committee will be asked to endorse the conforming Reserve Price Formation and Biennial Manual 15 revisions at its next meeting.

[Issue Tracking: Energy Price Formation](#)

Working Items

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

- a) Yuri Smolanitsky provided education on the impact of sudden loss of co-located load.
- b) Lisa Morelli facilitated a discussion to review solution options and initial 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 reviewing packages at its next meeting. Additional packages can be provided in advance of the next meeting, and well as specific requests for education.

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

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

Nick DiSciullo facilitated a discussion to review design components for the Operating Reserve Clarification for Resources Operating as Requested by PJM matrix. Lisa Morelli and Joel Luna, IMM, reviewed potential solution options for the Desired MW section of the matrix. Stakeholders are encouraged to provide additional design components and solution options in advance of the next meeting. The committee will continue working the Consensus Based Issue Resolution (CBIR) process on this issue at its next meeting.

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

12. Quadrennial Review

- a) Rebecca Carroll reviewed the Work Plan. The results of the Quadrennial Review Poll will be presented during the July 18 MIC Special Session for the Quadrennial Review.
- b) Joe Bowring, IMM, reviewed the IMM's recommendations and presented an additional VRR curve sensitivity based on a participant request.

The committee will be asked to vote on the packages in an offline format after the July 18 MIC Special Session for the Quadrennial Review. The vote will remain open until 5 pm Friday, July 22, 2022.

[Issue Tracking: 2022 Quadrennial Review](#)

Additional Items

13. ARR/FTR Market Task Force

Dave Anders discussed the results of a recent poll on potential future activities of the task force as well as a potential path forward.

14. 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 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.
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

In-Person Meeting Attendees

Names	Company Name	Sector
Morelli, Lisa (Chair)	PJM Interconnection, LLC	Not Applicable
DiSciullo, Nicholas (Secretary)	PJM Interconnection, LLC	Not Applicable
Anders, David	PJM Interconnection, LLC	None
Barker, Jason	Constellation Energy Generation, LLC	Generation Owner
Benchek, Jim	American Transmission Systems, Inc.	Transmission Owner
Carroll, Becky	PJM Interconnection, LLC	None
Chmielewski, Brian	PJM Interconnection, LLC	None
Egan, Amanda	PJM Interconnection, LLC	None
Fereshetian, Damon	PJM Interconnection, LLC	None
Filomena, Guy	Customized Energy Solutions, Ltd.*	None
Ford, Adrien	Old Dominion Electric Cooperative	Electric Distributor
Greening, Michele	PJM Interconnection, LLC	None
Hauske, David	PJM Interconnection, LLC	None
Heidorn, Richard	RTO Insider	None
Hsia, Eric	PJM Interconnection, LLC	None
Kogut, George	New York Power Authority	None
Martin, Amanda	PJM Interconnection, LLC	None
McElwee, Steve	PJM Interconnection, LLC	None
Messina, Emmy	PJM Interconnection, LLC	None
Midgley, Sharon	Exelon Business Services Company, LLC	Transmission Owner
Pilong, Melissa	PJM Interconnection, LLC	None
Poulos, Greg	CAPS	None
Scarpignato, David (Scarp)	Calpine Energy Services, L.P.	Generation Owner
Stadlmeyer, Rebecca	PJM Interconnection, LLC	None
Starkov, Stefan	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
Ahuja, Manan	S&P Global Inc.	None
Baim, Matthew	PJM Interconnection, LLC	None
Bastian, Jeff	PJM Interconnection, LLC	None
Bates Wannop, Allison	Voltus, Inc.	Other Supplier
Beban, Madalyn	PJM Interconnection, LLC	None
Bleiweis, Bruce	DC Energy LLC	Other Supplier
Bloom, David	Baltimore Gas and Electric Company	Transmission Owner
Borgatti, Michael	Gabel and Associates	None
Bowring, Joe	Monitoring Analytics, LLC	None
Boyle, Glen	PJM Interconnection, LLC	None
Breidenbaugh, Aaron	Rodan Energy Solutions (USA) Inc.	Other Supplier
Callaghan, Chris	PJM Interconnection, LLC	None
Canter, David	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Cao, Roger	PJM Interconnection, LLC	None
Carmean, Gregory	OPSI	None
Carroll, Rebecca	PJM Interconnection, LLC	None
Caven, Augustine	PJM Interconnection, LLC	None
Chang, Sean	Shell Energy North America (US), L.P.	Other Supplier

Chee, Yee Hong	MCG Energy Solutions	None
Chen, Hong	PJM Interconnection, LLC	None
Christopher, Mahila	Public Utilities Commission of Ohio (The)	None
Chu, George	PJM Interconnection, LLC	None
Ciabattoni, Joseph	PJM Interconnection, LLC	None
Cocco, Michael	Old Dominion Electric Cooperative	Electric Distributor
Corash, Richard (Rich)	PSEG Energy Resources & Trade LLC	Other Supplier
Cox, Jason	Dynegy Power Marketing, Inc.	Generation Owner
Coyne, Suzanne	PJM Interconnection, LLC	None
Croop, Danielle	PJM Interconnection, LLC	None
D'Antonio, Phil	PJM Interconnection, LLC	None
Davirova, Nigora	PJM Interconnection, LLC	None
Dent, D'ondre	PJM Interconnection, LLC	None
Dillon, Matthew	UGI Development Company	Generation Owner
Domian, Christin	Duquesne Light Company	Transmission Owner
Downs, Jere	PJM Interconnection, LLC	None
Drom, Richard (Rick)	Eckert Seamans	None
Dropkin, Ilyana	PJM Interconnection, LLC	None
Duensing, Allison	Saracen Energy East LP	Other Supplier
Dugan, Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Dumitriu, Nicolae	PJM Interconnection, LLC	None
Elkins, Rachel	FirstEnergy Corporation	Transmission Owner
Ericson, Christine	Illinois Commerce Commission	None
Esquivel, Manuel	Enel Trading North America, LLC	Other Supplier
Fabiano, Janell	PJM Interconnection, LLC	None
Fan, Zhenyu	PJM Interconnection, LLC	None
Fernandes, Zeenath	PJM Interconnection, LLC	None
Fernandez, Ray	PJM Interconnection, LLC	None
Fink, Regan	Pine Gate Mid-Atlantic, LLC	Other Supplier
FirstEnergy Corporation, Transmission Owner	EDP Renewables North America, LLC	Generation Owner
Fitzpatrick, Brian	PJM Interconnection, LLC	None
Flamm, Sean	PJM Interconnection, LLC	None
Foladare, Kenneth (Ken)	Geenex Solar LLC	Other Supplier
Frogg, Darrell	PJM Interconnection, LLC	None
Fuess, Christian	PBF Power Marketing, LLC	Generation Owner
Gates, Jill	PJM Interconnection, LLC	None
Gates, Terry	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Gilani, Rehan	ConEdison Energy, Inc.	Other Supplier
Gordon, Brad	PJM Interconnection, LLC	None
Greiner, Gary	PSEG Energy Resources & Trade LLC	Other Supplier
Guntle, Vince	American PowerNet Management	End-Use Customer
Hastings, David	Market Interconnection Consulting Services (MICS)	None
Hatch, Kevin	PJM Interconnection, LLC	None
Heisey, Bradley	Wolf Hills Energy, LLC	Generation Owner
Helm, Gary	PJM Interconnection, LLC	None
Helms, Joseph	Rainbow Energy Marketing Corporation	Other Supplier
Hepplewhite, Peter	Wrigley Capital LLC	Other Supplier
Herel, Suzanne	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
Holter, Natasha	PJM Interconnection, LLC	None
Horning, Lynn Marie	Customized Energy Solutions, Ltd.*	None
Horstmann, John	Dayton Power & Light Company (The)	Transmission Owner
Hough, Dennis	PJM Interconnection, LLC	None
Hudis, Gabriella	Jersey Green Energy LLC	Other Supplier
Hull, Gerit	American Municipal Power, Inc.	Electric Distributor
Hurwich, Mark	Elliott Bay Energy Trading, 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
Jerdi, PJ	BioUrja Power, LLC	Other Supplier
Jett, William (Bill)	Duke Energy Business Services LLC	Transmission Owner
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
Kazerooni, Hamid	PJM Interconnection, LLC	None
Kenney, Susan	PJM Interconnection, LLC	None
Kent, Janessa	Duquesne Light Company	Transmission Owner
Kilgallen, Kevin	Avangrid Renewables LLC	Generation Owner
Kimmel, David	PJM Interconnection, LLC	None
Kuhn, Tyler	DC Energy LLC	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
Levitt, Andrew	PJM Interconnection, LLC	None
Libbos, Robin	FirstEnergy Corporation	Transmission Owner
Lieberman, Steven	American Municipal Power, Inc.	Electric Distributor
Loftus, Chad	PJM Interconnection, LLC	None
Luna, Joel	Monitoring Analytics, LLC	None
Mabry, David	McNees Wallace & Nurick LLC	None
Marcino, Angelo	PJM Interconnection, LLC	None
Mariam, Yohannes	Office of the Peoples Counsel for the District of Columbia	End-Use Customer
Matuszak, Alex	UGI Energy Services, LLC	Other Supplier
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
Monroe, Diane	PJM Interconnection, LLC	None
Mooney, Jeff	FirstEnergy Corporation	Transmission Owner
Moretti, Andrea	PJM Interconnection, LLC	None
Moye, Bob	Rainbow Energy Marketing Corporation	Other Supplier
Nirmalya, Chanda	BioUrja Power, LLC	Other Supplier
Okenfuss, James	Savion, LLC	None
Olaleye, Michael	PJM Interconnection, LLC	None
Ondayko, Brock	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Opitz, Mandi	Interstate Gas Supply, Inc.	Other Supplier
Pakela, Gregory (Greg)	DTE Energy Trading, Inc.	Other Supplier

Patel, Keyurbhai (Keyur)	PJM Interconnection, LLC	None
Pelletier, Eveline	Hydro-Quebec	None
Peoples, John	Duquesne Light Company	Transmission Owner
Picarelli, David	PJM Interconnection, LLC	None
Pilong, Christopher	PJM Interconnection, LLC	None
Pilong, Melissa	PJM Interconnection, LLC	None
Pratt, Nicholas (Nick)	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Proconiar, Jason	Buckeye Power, Inc.	Electric Distributor
Raghavan, Vijay	BioUrga Trading LLC	Other Supplier
Rahimi, Farrokh	OATI Energy Trading	None
Roberts, Casey	Sierra Club	None
Robinson, Becky	Vista Energy Marketing, L.P.	Other Supplier
Rohrbach, John	Southern Maryland Electric Cooperative, Inc.	Electric Distributor
Ruck, Andrew	Freepoint Commodities LLC	Other Supplier
Rutledge, Craig	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Sasser, Jonathan	Customized Energy Solutions, Ltd.*	None
Schroeder, Connie	Virginia Electric & Power Company	Transmission Owner
Schwarz, Stephanie	PJM Interconnection, LLC	None
Scott, Nicole	PJM Interconnection, LLC	None
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
Smolanitsky, Yuri	PJM Interconnection, LLC	None
Sorrels, James	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Stem, Alexander (Alex)	Public Service Electric & Gas Company	Transmission Owner
Stone, Andy	PJM Interconnection, LLC	None
Stuchell, Jeff	FirstEnergy Corporation	Transmission Owner
Sturgeon, John	Duke Energy Carolinas, LLC	Other Supplier
Sussler, Philip	State of Maryland	None
Svenson, Heather	Public Service Electric & Gas Company	Transmission Owner
Swalwell, Brad	Tangent Energy Solutions, Inc.	Other Supplier
Sweeney, Rory	GT Power Group	None
Tacka, Natalie	PJM Interconnection, LLC	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
Walcavich, Colin	National Grid Renewables, LLC	None
Ward, Michael	PJM Interconnection, LLC	None
Warshel, Kim	PJM Interconnection, LLC	None
Weathers, Brian	PJM Interconnection, LLC	None
Wehnes, Kathleen	Maryland Public Service Commission	None
Whitehead, Jeffrey (Jeff)	GT Power Group	None
Williams, Fernie	East Kentucky Power Cooperative, Inc.	Transmission Owner
Wilson, James	Wilson Energy Economics	None
Wray, Gizelle	Solar Energy Industries Association	None
Yovanovich, Laura	PJM Interconnection, LLC	None
Zhang, Michael (Mike)	PJM Interconnection, LLC	None
Zhao, Tong	PJM Interconnection, LLC	None



Draft Meeting Minutes

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:

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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>	
<h2>Join a Meeting</h2>	<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

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