

**Market Implementation Committee**  
**WebEx Only / Conference & Training Center**  
**June 8, 2022**  
**9:00 a.m. – 3:45 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 May 11, 2022 Market Implementation Committee with **0 objections and 0 abstentions**.

## Endorsements/Approvals

- 2. Manuals 18 and 28: Load Management / Price Responsive Demand Testing Changes**  
Jack O'Neill reviewed 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 2023/2024 Delivery Year.  
**The committee endorsed the Manual 18 and Manual 28 revisions by acclamation with 0 objections and 0 abstentions.**  
[Issue Tracking: Load Management Testing Requirements](#)

## First Readings

- 3. Variable Environmental Costs and Credits**  
Melissa Pilog provided a second 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. The committee will be asked to endorse the package at its next meeting.  
[Issue Tracking: Variable Environmental Costs and Credits](#)
- 4. Market Suspension**  
Stefan Starkov provided a second first read of the revised PJM/IMM Package addressing the treatment of long-term market suspensions. The committee will be asked to endorse the package at its next meeting.  
[Issue Tracking: Rules Related to Market Suspension](#)
- 5. Manual 6 Revisions**  
Emmy Messina provided a first read of 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). An update on the implementation plans for the first phase of ARR FTR Market Task Force-based conforming changes (Docket No. ER22-797-000) was provided. The committee will be asked to endorse the revisions at its next meeting.
- 6. Manual 18 Revisions: Hybrid Resources**

Andrew Levitt provided an update on the recent hybrids filing (Docket No. ER22-1420) and provided a first read of conforming revisions to Manual 18: PJM Capacity Market. The committee will be asked to endorse the revisions at its next meeting.

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

## 7. **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 will be asked to endorse the revisions at its next meeting.

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

## 8. **DR/PRD Compliance Construct for Weather Sensitive Load**

Sharon Midgley, Exelon, provided a first read of a Problem Statement and Issue Charge addressing the exploration of an alternative DR/PRD compliance construct for weather sensitive load. Exelon and PJM will work offline to evaluate the proposed stakeholder group assignment and timing. This issue will return to the July MIC for endorsement if the Demand Response Subcommittee remains the proposed stakeholder group assignment, or for an update to the extent there is a recommendation to move it to another forum.

## Working Items

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

Lisa Morelli facilitated a discussion to gather solution options from the committee 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 revisiting solution options and reviewing initial packages at its next meeting. Additional interests, design components, and solution options, as well as specific requests for education are encouraged in advance of the next meeting.

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

### 10. **Operating Reserve Clarification for Resources Operating as Requested by PJM**

Janell Fabiano facilitated a discussion to review and identify additional interests for the Operating Reserve Clarification for Resources Operating as Requested by PJM Matrix. Lisa Morelli reviewed the Design Component Details and Status Quo. No updates were made to the Matrix during the meeting. Stakeholders are encouraged to provide additional interests and design components 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](#)

### 11. **Quadrennial Review**

Rebecca Carroll facilitated a discussion to begin developing proposals for the Quadrennial Review matrix.

- a) Melissa Piong provided additional design components and solution options and reviewed PJM's initial proposal resulting from the Quadrennial Review of the capacity market.
- b) Joe Bowring, IMM, provided an update on the IMM Proposal resulting from the Quadrennial Review of the capacity market.

Additional proposals were captured during the meeting and 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 on this issue at its next meeting.

[Issue Tracking: 2022 Quadrennial Review](#)

## Additional Items

### 12. nGEM Project Update

Ray Fernandez provided an update on the Next Generation Energy Market (nGEM) project.

### 13. Intelligent Reserve Deployment Deficiency Notice

Ilyana Dropkin provided an update on the deficiency notice from FERC related to the Intelligent Reserve Deployment (IRD) filing (Docket No. ER22-1200-000).

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

### 14. Cost Development Subcommittee Update

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

### 15. Order Directing Reports on Energy and Ancillary Service Market Reforms

Dennis Hough and Rebecca Carroll provided an overview of the FERC order directing reports on energy and ancillary service market reforms (FERC Docket No. AD21-10) and reviewed the plan for soliciting stakeholder input.

### 16. PJM Comments on Proposed Securities & Exchange Commission Rule Changes

Gary Helm updated stakeholders on PJM's intent to file comments on the Securities and Exchange Commission's (SEC) proposed rule changes that would require registrants to provide certain climate-related information in their registration statements and annual reports. (SEC File No. S7-10-22).

### 17. Voting Application: Active Voter Registration Changes

Amanda Egan provided a demonstration of upcoming changes to the process of registering as an Active Voter within the Voting Application, which will go-live on June 15<sup>th</sup>.

## Informational Section

### Interregional Coordination Update

Materials are posted as informational only.

### Fast Start Pricing Monthly Metrics Update

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.
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

## In-Person Meeting Attendees

Names	Company Name	Sector
Morelli, Lisa (Chair)	PJM Interconnection, LLC	Not Applicable
Anders, David	PJM Interconnection, LLC	None
Anderson, Bob	Tenaska Power Services Co.	Generation Owner
Brodbeck, John	EDP Renewables North America LLC	Generation Owner
Chang, Sean	Shell Energy North America (US), L.P.	Other Supplier
Fabiano, Janell	PJM Interconnection, LLC	None
Graham, Sophie	Adapt2 Solutions, Inc.	None

Greening, Michele	PJM Interconnection, LLC	None
Helm, Gary	PJM Interconnection, LLC	None
Hudis, Gabriella	Jersey Green Energy LLC	Other Supplier
Kogut, George	New York Power Authority	Other Supplier
Messina, Emmy	PJM Interconnection, LLC	None
Midgley, Sharon	Exelon Business Services Company, LLC	Transmission Owner
Mohler, Tina	PJM Interconnection, LLC	None
Muhl, Nancy	PJM Interconnection, LLC	None
Pilong, Melissa	PJM Interconnection, LLC	None
Scarpignato, David	Calpine Energy Services, L.P.	Generation Owner
Souder, Michelle	PJM Interconnection, LLC	None
Sweeney, Rory	GT Power Group, LLC	None
Terranova, Chris	PJM Interconnection, LLC	None

## WebEx Meeting Attendees

<b>Names</b>	<b>Company Name</b>	<b>Sector</b>
DiSciullo, Nicholas (Secretary)	PJM Interconnection, LLC	Not Applicable
Baizman, Aaron	PJM Interconnection, LLC	None
Barker, Jason	Constellation Energy Generation, LLC	Generation Owner
Bastian, Jeff	PJM Interconnection, LLC	None
Beban, Madalyn	PJM Interconnection, LLC	None
Benckek, Jim	American Transmission Systems, Inc.	Transmission Owner
Bleiweis, Bruce	DC Energy LLC	Other Supplier
Bloom, David	Baltimore Gas and Electric Company	Transmission Owner
Bowker, Shannon	PJM Interconnection, LLC	None
Bowring, Joseph	Monitoring Analytics, LLC	None
Boyle, Glen	PJM Interconnection, LLC	None
Bruno, Patrick	PJM Interconnection, LLC	None
Callaghan, Chris	PJM Interconnection, LLC	None
Callen, Zachary (Zac)	Illinois Commerce Commission	None
Canter, David	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Cao, Roger	PJM Interconnection, LLC	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
Chu, George	PJM Interconnection, LLC	None
Colaresi, Chandra	Cpower Energy Management	None
Corash, Richard (Rich)	PSEG Energy Resources & Trade LLC	Other Supplier
Coyne, Suzanne	PJM Interconnection, LLC	None
Croop, Danielle	PJM Interconnection, LLC	None
Dailey, Michael	Northern Virginia Electric Cooperative	Electric Distributor
D'Antonio, Phil	PJM Interconnection, LLC	None
Davis, David	Strata Solar	None
Di Iorio, Michelle	PSEG Energy Resources & Trade LLC	Other Supplier
DiNicola, Laura	FirstEnergy Corporation	Transmission Owner
Domian, Christin	Duquesne Light Company	Transmission Owner
Dorko, Keri	Monitoring Analytics, LLC	None
Dorner, Amber	Consolidated Edison Company of New York, Inc	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
Edgar-Smith, Collin	PJM Interconnection, LLC	None
Egan, Amanda	PJM Interconnection, LLC	None
Elkins, Rachel	FirstEnergy Corporation	Transmission Owner
Esquivel, Manuel	Enel X North America, Inc.	Other Supplier
Fan, Zhenyu	PJM Interconnection, LLC	None
Fazio, Danielle	Noble Americas Gas & Power Corp.	Other Supplier
Fernandez, Ray	PJM Interconnection, LLC	None
Filomena, Guy	Customized Energy Solutions, Ltd.*	None
Fink, Regan	Pine Gate Mid-Atlantic, LLC	Other Supplier
Fitzpatrick, Brian	PJM Interconnection, LLC	None
Foladare, Kenneth (Ken)	Geenex Solar LLC	Other Supplier
Franks, Christine	PJM Interconnection, LLC	None
Fuess, Christian	PBF Power Marketing, LLC	Generation Owner
Garnett, Bryan	Duke Energy Ohio, Inc.	Transmission Owner
Gilani, Rehan	ConEdison Energy, Inc.	Other Supplier
Gorman, Brad	American Transmission Systems, Inc.	Transmission Owner
Graf, Walter	PJM Interconnection, LLC	None
Greiner, Gary	PSEG Energy Resources & Trade LLC	Other Supplier
Guntle, Vince	American PowerNet Management	End-Use Customer
Halay, Alina	The Federal Energy Regulatory Commission	None
Hatch, Kevin	PJM Interconnection, LLC	None
Hauske, Thomas	PJM Interconnection, LLC	None
Heinle, Frederick (Erik)	Office of the Peoples Counsel for the District of Columbia	End-Use Customer
Hepplewhite, Peter	Wrigley Capital LLC	Other Supplier
Hoatson, Thomas (Tom)	Riverside Generating, LLC	Generation Owner
Hohenshilt, Jennifer	Talen Energy Marketing, LLC	Generation Owner
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
Hsia, Eric	PJM Interconnection, LLC	None
Hull, Gerit	American Municipal Power, Inc.	Electric Distributor
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
Jardot, Gina	Essential Power Rock Springs, LLC	Generation Owner
Johnson, Carl	Customized Energy Solutions, Ltd.*	None
Johnston, David	Indiana Utility Regulatory Commission	None
Kalaskar, Rahul	AES Ohio Generation, LLC	Generation Owner
Karnik, Rashmi	Hartigen Solutions, LLC	None
Kauffman, Brian	Enel X North America, Inc.	Other Supplier
Kazerooni, Hamid	PJM Interconnection, LLC	None
Keech, Adam	PJM Interconnection, LLC	None
Kelly, Stephen	Brookfield Energy Marketing LP	Other Supplier
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
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
LaRocque, Matthew (Matt)	PJM Interconnection, LLC	None
Lejcar, Jamie	Allegheny Electric Cooperative, Inc.	Electric Distributor
Levitt, Andrew	PJM Interconnection, LLC	None
Liang-Nicol, Cecilia	Monongahela Power Company d/b/a Allegheny Power	Transmission Owner
Libbos, Robin	FirstEnergy Corporation	Transmission Owner
Loftus, Chad	PJM Interconnection, LLC	None
Lu, Chen	PJM Interconnection, LLC	None
Luna, Joel	Monitoring Analytics, LLC	None
Mabry, David	McNees Wallace & Nurick LLC	None
Marcino, Angelo	PJM Interconnection, LLC	None
Matheson, Eric	Pennsylvania Public Utility Commission	None
Matuszak, Alex	UGI Energy Services, LLC	Other Supplier
McDaniel, John	Baltimore Gas and Electric Company	Transmission Owner
McGill, Susan	PJM Interconnection, LLC	None
McLaverty, Megan	PJM Interconnection, LLC	None
Miller, John	Commonwealth Edison Company	Transmission Owner
Mooney, Jeff	FirstEnergy Corporation	Transmission Owner
Moye, Bob	Rainbow Energy Marketing Corporation	Other Supplier
Nix, Emma	Gable and Associates	None
Okenfuss, James	Savion, LLC	None
Ondayko, Brock	AEP Appalachian Transmission Company, Inc.	Transmission Owner
O'Neill, Jack	PJM Interconnection, LLC	None
Pacella, Chris	PJM Interconnection, LLC	None
Patel, Keyurbhai (Keyur)	PJM Interconnection, LLC	None
Peoples, John	Duquesne Light Company	Transmission Owner
Picarelli, David	PJM Interconnection, LLC	None
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
Raghavan, Vijay	BioUrga Trading LLC	Other Supplier
Rahimi, Farrokh	OATI Energy Trading	None
Reagan, Ryann	New Jersey Board of Public Utilities	None
Redwine, Arlo	The Federal Energy Regulatory Commission	None
Roberts, Casey	Sierra Club	None
Robinson, Becky	Vista Energy Marketing, L.P.	Other Supplier
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
Schuyler, Ken	PJM Interconnection, LLC	None
Schwarz, Stephanie	PJM Interconnection, LLC	None
Scott, Nicole	PJM Interconnection, LLC	None
Servera, Max	Unicia Energy LP	Other Supplier

Shanker, Roy	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Shegarfi, Roozbeh	Exelon Business Services Company, LLC	Transmission Owner
Smith, Kara	Buckeye Power, Inc.	Electric Distributor
Sorrels, James	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Sotkiewicz, Paul	E-Cubed Policy Associates	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
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
Tacka, Natalie	PJM Interconnection, LLC	None
Theodore, Sharon	Electric Power Supply Association	None
Tyler, Catherine	Monitoring Analytics, LLC	None
Vayda, Brian	Borough of Park Ridge, NJ	Electric Distributor
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
Whitehead, Jeffrey (Jeff)	GT Power Group	None
Wilson, James	Wilson Energy Economics	None
Wray, Gizelle	Solar Energy Industries Association	None
Xu, Xu	PJM Interconnection, LLC	None
Yoder, Michael	RTO Insider	None
Yoo, Kyungjin	PJM Interconnection, LLC	None
Yovanovich, Laura	PJM Interconnection, LLC	None
Zhang, Michael (Mike)	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.

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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><b>*1</b></p> <p>To enter the question queue (does not work during a vote)</p> </div> <div style="text-align: center;"> <p><b>*2</b></p> <p>To be removed from the question queue</p> </div> </div> <div style="text-align: center; margin-top: 20px;"> <p><b>*0</b></p> <p>To signal for PJM support staff assistance</p> </div>	<p>Please log in to the voting application at <a href="https://voting.pjm.com">voting.pjm.com</a>, 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><b>*7</b></p> <p>Yes</p> </div> <div style="text-align: center;"> <p><b>*8</b></p> <p>No</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p><b>*9</b></p> <p>Abstain</p> </div> <div style="text-align: center;"> <p><b>*0</b></p> <p>To signal for PJM support staff assistance</p> </div> </div>
<p><b>Asking A Question</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• Questions are taken during the meeting when natural breaks occur and are asked in the order they are received.</li> </ul>	
<p><b>Linking Teleconference Connection to Webex</b></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><b>Join a Meeting</b></p>	<ol style="list-style-type: none"> <li>1. Join meeting in the WebEx desktop client</li> <li>2. Enter name (<i>First and Last*</i>) and corporate email</li> <li>3. Call in to the operator-assisted number</li> </ol>

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

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 Visit [learn.pjm.com](https://learn.pjm.com), an easy-to-understand resource about the power industry and PJM’s role.