

**Market Implementation Committee
PJM Conference & Training Center/Webex
December 4, 2024
9:00 a.m. – 3:00 p.m. EPT**

Administration (9:00 – 9:05)

Stefan Starkov, PJM, reviewed the Antitrust, Code of Conduct, Public Meetings/Media Participation and WebEx Participant Identification Requirements.

The committee approved the draft minutes from the November 8, 2024 Market Implementation Committee meeting.

Endorsements (9:05 – 9:35)

1. Manual 27 & 29 Revisions (9:05 – 9:15)
Susan Kenney, PJM, presented conforming changes to Manual 27: Open Access Transmission Tariff Accounting and Manual 29: Billing as part of the periodic review.
The committee endorsed the revisions by acclamation with 0 objections and 0 abstentions.
2. Black Start Base Formula Rate (9:15 – 9:35)
Glen Boyle, PJM, reviewed a problem statement and issue charge on the Black Start Base Formula Rate.
The committee approved the issue charge by acclamation with 0 objections and 0 abstentions.

Additional Items (9:35 – 10:35)

3. Distributed Resources Subcommittee Update (9:35 – 9:40)
Ilyana Dropkin, PJM, provided a Distributed Resources Subcommittee update.
4. Reactive Power Compensation [FERC Order 904] (9:40 – 10:10)
 - a. Thomas DeVita, PJM, presented redlines to PJM's proposal for an FPA section 205 filing around the Energy & Ancillary Services Offset in conjunction with FERC's recent Reactive Power Final Rule in RM22-2 and an update regarding the related filing.
 - b. Joe Bowring, Monitoring Analytics, presented education on FERC Order 904 on reactive revenues.
5. Synchronized Reserve Deployment Enhancement Update (10:10 – 10:25)
Michael Olaleye, PJM, presented an update on Synchronized Reserve Deployment Enhancements.
6. Operating Reserve Clarification (10:25 – 10:35)

Nick Disciullo, PJM, presented an informational update on the Operating Reserve Clarification MIC Special Session issue regarding a PJM/IMM proposal.

Working Items (10:35 – 12:00)

7. Demand Response Availability Window (10:35 – 11:30)
 - a. Pat Bruno, PJM, reviewed an ELCC analysis and solution options regarding DR Availability.
 - b. Foluso Afelumo, PJM, asked stakeholders to provide solution packages within the matrix prior to the January MIC.
 - c. Additional materials are posted as informational only.

[Issue Tracking: DR Availability Window](#)
8. Black Start Base Formula Rate (11:30 – 12:00)
 - a. Glen Boyle, PJM, presented education on Net CONE impacts on Black Start revenues.

Lunch (12:00 – 1:00)

Working Items (1:00 – 3:00)

Black Start Base Formula Rate (1:00 – 1:50)

- b. Joe Bowring, Monitoring Analytics, presented education on the Black Start Base Formula Rate.
 - c. Foluso Afelumo, PJM, will led a discussion on interest identification within the matrix.
9. External Resource Capacity Clearing (1:50 – 3:00)
 - a. Nebiat Tesfa, Tim Bachus and Mike Handlin, PJM, presented education on External Resource Capacity Clearing.
 - b. Joe Bowring, Monitoring Analytics, presented education on Capacity Imports and Performance Assessment Interval Risk.

[Issue Tracking: External Resource Capacity Clearing](#)

Attendance

In-Person		
Name	Company	Sector
Afelumo, Foluso (Chair)	PJM Interconnection	None
Starkov, Stefan (Secretary)	PJM Interconnection	None
Barker, Jason	Vitol Inc.	Generation Owner
Boyle, Glen	PJM Interconnection	None
Bruno, Patrick	PJM Interconnection	None
Carroll, Rebecca	PJM Interconnection	None
Chmielewski, Brian	PJM Interconnection	None
Croop, Danielle	PJM Interconnection	None
Davis, James	Dominion Energy Generation Marketing, Inc.	Generation Owner
DeVita, Thomas	PJM Interconnection	None

Downs, Jere	PJM Connect	None
Dropkin, Ilyana	PJM Interconnection	None
Filomena, Guy	Customized Energy Solutions, Ltd.	None
Fuess, Christian	PBF Power Marketing, LLC	End-Use Customer
Gledhill, Andrew	PJM Interconnection	None
Graf, Walter	PJM Interconnection	None
Greening, Michele	PJM Interconnection	None
Hall, Mary	PJM Interconnection	None
Hauske, David	PJM Interconnection	None
Helm, Gary	PJM Interconnection	None
Hoatson, Tom	West Deptford Energy, LLC	Generation Owner
Hohenshilt, Jennifer	Talen Energy Marketing, LLC	Generation Owner
Hooker, Marquette	Dominion Virginia Power	Transmission Owner
Horger, Tim	PJM Interconnection	None
Keech, Adam	PJM Interconnection	None
Kogut, George	New York Power Authority	Other Supplier
Lacek, Mollie	PJM Interconnection	None
Langbein, Peter	PJM Interconnection	None
Mabry, David	McNees Wallace & Nurick LLC	None
Marzewski, Skyler	PJM Interconnection	None
Olaleye, Michael	PJM Interconnection	None
Poulos, Greg	PJM Committee Voting Generic Account	None
Rohrbach, John	Wabash Valley Power Association, Inc.	Electric Distributor
Rumsey, Amanda	PPL Electric Utilities Corp. dba PPL Utilities (TO)	Transmission Owner
Scarp, David	Calpine Energy Services, L.P.	Generation Owner
Selick, Sam	Customized Energy Solutions, Ltd.	None
Stadelmeyer, Rebecca	Jersey Green Energy LLC	Other Supplier
Swalwell, Brad	Tangent Energy Solutions, Inc.	Other Supplier
Sweeney, Rory	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Tutino, Joseph	PJM Interconnection	None
Vinnik, Daniel	PJM Interconnection	None
Zhang, Mike	PJM Interconnection	None

Webex

Name	Company	Sector
Abdur-Rahman, Muhsin	Dynegy Marketing and Trade, LLC (DECAM)	Generation Owner
Afelumo, Foluso	PJM Interconnection	None
Ahuja, Manan	RiverCrest Power-South, LLC	Other Supplier
Allen, Gerald	Non-Member	None
Ament, Todd	Cube Hydro Partners, LLC	Generation Owner
Anderson, Juliet	Constellation Energy Generation, LLC	Generation Owner
Anderson, Juliet	Constellation Energy Generation, LLC	Generation Owner
Arkatin, Tyler	PJM Interconnection	None
Bachus, Tim	PJM Interconnection	None
Baizman, Aaron	PJM Interconnection	None
Barker, Jason	Vitol Inc.	Generation Owner
Belenky, Maria	PJM Interconnection	None
Belenky, Maria	PJM Interconnection	None
Benitez, Rick	BE&C	None
Bennett, Stephen	PJM Interconnection	None
Bhat, Ashwini	PJM Interconnection	None
Bleiweis, Bruce	DC Energy, LLC	Other Supplier
Boehnlein, Andrew	Virginia State Corporation Commission	None
Bondi, Greg	Constellation Energy Generation, LLC	Generation Owner
Bowker, Shannon	PJM Interconnection	None
Bowring, Joseph	Monitoring Analytics	None
Boyle, Glen	PJM Interconnection	None
Branch, John	Enel Trading North America, LLC	Other Supplier
Breidenbaugh, Aaron	Enerwise Global Technologies, LLC	Other Supplier
Breidenbaugh, Aaron	Cpower Energy Management	None
Brodbeck, John	EDP Renewables	None

Bryson, Michael	PJM Interconnection	None
Callen, Zachary	Illinois Commerce Commission	None
Campbell, Bruce	Enerwise Global Technologies, LLC	Other Supplier
Canchi, Devendra	Monitoring Analytics	None
Cao, Roger	PJM Interconnection	None
Carmean, Gregory	Organization of PJM States, Inc.	None
Carrier, Ron	Big Lake Consulting	None
Carroll, Rebecca	PJM Interconnection	None
Cerchio, Gerard	Monitoring Analytics	None
Chang, Sean	Shell Energy North America (US), L.P.	Other Supplier
Chappelle, Laura	Potomac Law Group	None
Chee, Yee Hong	MCG Energy Solutions, LLC	None
Chintapalli, Raj	BP Energy Company	Other Supplier
Chmielewski, Brian	PJM Interconnection	None
Christopher, Mahila	Public Utilities Commission of Ohio	None
Ciabattoni, Joseph	PJM Interconnection	None
Cocco, Michael	Old Dominion Electric Cooperative	Electric Distributor
Collier, Oliver	Virginia State Corporation Commission	None
Concina, Wendell	Commonwealth Edison Company	Transmission Owner
Corash, Richard	PSEG Energy Resources and Trade LLC	Other Supplier
Coyle, Billy	Dominion Virginia Power	Transmission Owner
Coyne, Suzanne	PJM Interconnection	None
Croop, Danielle	PJM Interconnection	None
Currier, Jeff	Dominion Virginia Power	Transmission Owner
Cusick, Kerinia	Center for Renewables Integration	None
Daley, Faith	PJM Interconnection	None
Dantonio, Phil	PJM Interconnection	None
Davis, David	Apex Clean Energy Holdings, LLC	None
Davis, James	Dominion Energy Generation Marketing, Inc.	Generation Owner
Davis, Elizabeth	PJM Interconnection	None
DiMartino, Denise	PJM Interconnection	None
DiNicola, Laura	American Transmission Systems, Inc.	Transmission Owner
Disciullo, Nicholas	PJM Interconnection	None
Domian, Christin	Duquesne Light Company	Transmission Owner
Donohue, Erin	Enel X North America, Inc.	Other Supplier
Dossin, Sophia	Big Sandy Peaker Plant, LLC	Generation Owner
Dugan, Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Esterly, Theresa	PJM Interconnection	None
fan, zhenyu	PJM Interconnection	None
Farrell, James	Eastern Generation LLC	Generation Owner
Fee, George	Appalachian Power Company (AEP Generation)	Transmission Owner
Ferguson, Mike	InDeck Energy Services, Inc.	None
Filomena, Guy	Customized Energy Solutions, Ltd.	None
Fink, Sari	MAREC Action	None
Fitch, Neal	NRG Business Marketing LLC (NRGPM)	Generation Owner
Flamm, Sean	PJM Interconnection	None
Foladare, Kenneth	Geenex Solar LLC	Other Supplier
Frede, Shannon	Maryland Energy Administration	None
Fuess, Christian	PBF Power Marketing, LLC	End-Use Customer
Garnett, Bryan	Duke Energy Business Services LLC	Transmission Owner
Gates, Terry	Appalachian Power Company (AEP Generation)	Transmission Owner
Ghosh, Josh	CC Renewables	None
Gilani, Rehan	RWE Clean Energy Wholesale Services, Inc.	Other Supplier
Glattfelder, Matt	Virginia State Corporation Commission	None
Gorman, Bradley	American Transmission Systems, Inc.	Transmission Owner
Grabow, Bruce	SheppardMullin	None
Granstrand, Luke	Dominion Virginia Power	Transmission Owner
Greene, Benjamin	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Greening, Michele	PJM Interconnection	None
Guntle, Vince	American PowerNet Management, L.P.	End-Use Customer
Hanawa, Angie	Enel North America	None
Handlin, Mike	PJM Interconnection	None

Haque, Asim	PJM Interconnection	None
Hastings, David	Long Island Lighting Company dba LIPA	Other Supplier
Hauske, David	PJM Interconnection	None
Heinle, Frederick	Dynegy Marketing and Trade, LLC	Generation Owner
Heisey, Bradley	Tenaska Pennsylvania Partners, LLC	Generation Owner
Helms, Joseph	Commonwealth Chesapeake Company, LLC	Generation Owner
Hoatson, Tom	West Deptford Energy, LLC	Generation Owner
Hoffman, Jeff	PJM Interconnection	None
Hohenshilt, Jennifer	Talen Energy Marketing, LLC	Generation Owner
Holland, Risa	PJM Interconnection	None
Holter, Natasha	PJM Interconnection	None
Hooker, Marquette	Dominion Virginia Power	Transmission Owner
Horger, Tim	PJM Interconnection	None
Horning, Lynn Marie	American Municipal Power, Inc.	Electric Distributor
Horstmann, John	Dayton Power & Light Company (The)	Transmission Owner
How, Madalin	PJM Interconnection	None
Hsia, Eric	PJM Interconnection	None
Hudis, Gabriella	Gabel Associates	None
Hugee, Jacqui	Dominion Virginia Power	Transmission Owner
Hull, Gerit	American Municipal Power, Inc.	Electric Distributor
Hunter, Scott	Other	None
Hurd, Shawn	FirstEnergy Corporation	Transmission Owner
Hyzinski, Tom	GT Power Group, LLC	None
Iler, Arthur	Indiana Office of Utility Consumer Counselor	None
Isaac, Robert	LS Power	None
Janicki, Diane	Boston Energy Trading and Marketing LLC	Other Supplier
Johnson, Carl	Customized Energy Solutions, Ltd.	None
Johnston, David	Other	None
Kalle, Ibrahima	Leidos Engineering LLC	None
Kelly, Stephen	Brookfield Renewable Trading and Marketing LP (BSMH)	Other Supplier
Kenney, Susan	PJM Interconnection	None
Keshavamurthy, Bhavana	PJM Interconnection	None
Kimmel, David	PJM Interconnection	None
Kirk, Ryan	Appalachian Power Company (AEP Generation)	Transmission Owner
Klingensmith, Laurel	American Transmission Systems, Inc.	Transmission Owner
Konowal, Richard	PJM Interconnection	None
Korandovich, Robert	KOR Energy, Ltd.	None
Kosner, Bob	Illinois Municipal Electric Agency	None
Lacek, Mollie	PJM Interconnection	None
Laios, Takis	Appalachian Power Company (AEP Transmission)	Transmission Owner
Langbein, Peter	PJM Interconnection	None
Lee, Ray	PJM Interconnection	None
Lee, Ray	PJM Interconnection	None
Lee, Aristotle	Grays Ferry Cogeneration Partnership	Generation Owner
LeithYessian, Devin	RTO Insider	None
Leith-Yessian, Devin	RTO Insider	None
Leon, Miguel	PJM Interconnection	None
Lieberman, Steven	American Municipal Power, Inc.	Electric Distributor
Lu, Chenchao	PJM Interconnection	None
Mariam, Yohannes	Office of the People's Counsel for the District of Columbia	None
Marshall-Torres, Emma	Elevate Renewables	None
Marzewski, Skyler	PJM Interconnection	None
Mascarenhas, Sandeep	Brookfield Renewable Trading and Marketing LP	Other Supplier
Mason, Gary	Monongahela Power Company	Transmission Owner
Massarelli, Eva	Dominion Virginia Power	Transmission Owner
McCorry, Hannah	Illinois Commerce Commission	None
McDaniel, John	Baltimore Gas and Electric Company	Transmission Owner
McDowell, Christian	Pennsylvania Public Utility Commission	None
McElwaine, Kathy	PJM Interconnection	None
McNeil, Justin	Kentucky Public Service Commission	None
Melkonich, Hannah	PJM Interconnection	None
Mendez Perez, Victor	Commonwealth Edison Company	Transmission Owner

Mihaly, Imola	Cogentrix Energy Power Management	None
Miller, John	Clearway Energy	None
Miller, John	Calico Energy	None
Mooney, Jeffrey	Monongahela Power Company (MonPwr Gen)	Transmission Owner
Morelli, Lisa	PJM Interconnection	None
Moscovitz, Daniel	PJM Interconnection	None
Mroz, David	PJM Interconnection	None
Ndikwani, Priscilla	EDF Renewable Development, Inc.	None
Newman, Sarah	Stone Mattheis Xenopoulos & Brew, PC	None
Nix Simon, Emma	EDF Renewable Development, Inc.	None
Noonan, Casey	PJM Interconnection	None
Norton, Chris	American Municipal Power, Inc.	Electric Distributor
O'Hara, Bernie	Sargent & Lundy	Generation Owner
Olaleye, Michael	PJM Interconnection	None
O'Leary, Christopher	PSEG Energy Resources and Trade LLC	Other Supplier
Ondayko, Brock	AEP Energy Partners, Inc. (AEP Gen Resources)	Transmission Owner
Osborn, Eric	EDF Trading North America, LLC	Other Supplier
Packer, Joseph	MCG Energy Solutions, LLC	None
Pakela, Greg	DTE Energy Trading, Inc.	Other Supplier
Patel, Anita	PJM Interconnection	None
Patel, Harshil	PJM Interconnection	None
Peoples, John	Duquesne Light Company	Transmission Owner
Petrov, Matt	PJM Interconnection	None
Phenix, Michael	Red Oak Power, LLC	Generation Owner
Phillips, Darlene	PJM Interconnection	None
Pilong, Christopher	PJM Interconnection	None
Pilong, Melissa	PJM Interconnection	None
Pincus, Steven	PJM Interconnection	None
Rasmussen, Jay	Duke Energy Business Services LLC	Transmission Owner
Reagan, Ryann	New Jersey Board of Public Utilities	None
Robinson, Paul	Federal Energy Regulatory Commission	None
Rode, Advait	Michigan Public Service Commission	None
Rohrbach, John	Wabash Valley Power Association, Inc.	Electric Distributor
Rutigliano, Tom	Natural Resources Defense Council	None
Rutledge, Craig	Appalachian Power Company (AEP Generation)	Transmission Owner
Salaneck, Alexandra	Monitoring Analytics	None
Samuel, Allison	Virginia State Corporation Commission	None
Sasser, Jonathan	Customized Energy Solutions, Ltd.	None
Schavrien, Nicholas	Silver Run Electric, LLC	Transmission Owner
Scheirer, Alex	Gabel Associates	None
Schmatz, Peter	PSEG Energy Resources and Trade LLC	Other Supplier
Schuyler, Ken	PJM Interconnection	None
Shah, Vijay	PJM Interconnection	None
Shah, Pulin	PECO Energy Company	Transmission Owner
Shelor, Jeremiah	Dominion Energy Generation Marketing, Inc.	Generation Owner
Sikora, Cliff	Lincoln Generating Facility, LLC	Generation Owner
Sims, Ryan	IGS Energy	None
Sloan, Ben	Organization of PJM States, Inc.	None
Smith, Kara	Buckeye Power, Inc.	Electric Distributor
Sotkiewicz, Paul	E-Cubed Policy Associates	None
Sprinkle, Dan	Louisville Gas and Electric Company/Kentucky Utilities Company	Transmission Owner
Stadlmeyer, Rebecca	Jersey Green Energy LLC	Other Supplier
Starkov, Stefan	PJM Interconnection	None
Stinner, Doug	RWE Clean Energy, LLC	Generation Owner
Stone, Andy	Kleinman Center for Energy Policy	None
Strange, Rob	Applied Energy Group	None
Stupar, Rob	Invenergy Energy Management LLC	Generation Owner
Sturgeon, John	Duke Energy Business Services LLC	Transmission Owner
Sussler, Phillip	Office of People's Counsel	None
Swalwell, Bradley	Tangent Energy Solutions, Inc.	Other Supplier
Talebi, Tessa	Federal Energy Regulatory Commission	None
Tangvald, Rainor	Duke Energy Ohio, Inc.	Transmission Owner

Tell, Shawn	Black Coat Capital	None
Tesfa, Nebiat	PJM Interconnection	None
Theodore, Sharon	Other	None
Tribulski, Jennifer	PJM Interconnection	None
Tutino, Joseph	PJM Interconnection	None
Unger, Matthew	Virginia State Corporation Commission	None
Ushijima, Hiroaki	Elwood Energy, LLC	Generation Owner
VanderLaan, William	Illinois Commerce Commission	None
Wagar, Benjamin	Jersey Central Power and Light (Yards Creek)	Transmission Owner
Walker, Wesley	Dominion Virginia Power	Transmission Owner
Waweru, James	PJM Interconnection	None
Wehnes, Kathleen	Maryland Department of the Environment	None
Wharton, Matthew	PJM Interconnection	None
Whitehead, Jeffrey	GT Power Group	None
Wolff, John	PJM Interconnection	None
Xang, Kate	Non-Member	None
Xu, Xu	PJM Interconnection	None
Yasutake, Sarah	Jersey Green Energy LLC	Other Supplier
Yeh, Li	Dominion Virginia Power	Transmission Owner
Youth, Michael	North Carolina Electric Membership Corporation	Electric Distributor
Zaheen, Maisha	Enel Trading North America, LLC	Other Supplier
Zemanek, Kevin	Buckeye Power, Inc.	Other Supplier
Zhang, Mike	PJM Interconnection	None
Zhao, Tong	PJM Interconnection	None
Zhou, Ming	DXT Commodities	None

Informational Section

[FERC Docket ER 24-98 Update](#)

Adam Keech, PJM, presented an update to FERC Docket ER 24-98 regarding implementing a must offer requirement for intermittent, storage and hybrid resources as part of proposed capacity market adjustments.

Interregional Coordination Update

Materials are posted as informational only.

Unit Specific Parameters

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](#).

Cost Development Subcommittee (CDS)

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

Distributed Resources Subcommittee (DISRS)

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

Market Settlements Subcommittee (MSS)

Meeting materials are posted to the [MSS 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	5:00 p.m. EPT deadline*	
January 8	9 a.m.	WebEx / Conference & Training Center	December 27	January 1
February 5	9 a.m.	WebEx / Conference & Training Center	January 24	January 29
March 5	9 a.m.	WebEx / Conference & Training Center	February 21	February 26

*Materials received after 12:00 p.m. EPT are not guaranteed timely posting by 5:00 p.m. EPT on the same day.

Author: Stefan Starkov

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 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. Expectations for participating in PJM activities are further detailed in the [PJM Code of Conduct](#).

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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On the Phone, Dial



to Mute/Unmute

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