



Market Implementation Committee WebEx Only April 13, 2022 9:00 a.m. – 3:30 p.m. EPT

#### Administration

Lauren Strella Wahba reviewed the Antitrust, Code of Conduct, Public Meetings/Media Participation and the WebEx Participant Identification Requirements.

The Committee approved the draft minutes from the March 9, 2022 Market Implementation Committee with **0 objections and 0 abstentions**.

- 1. Lisa Morelli provided an update on the MIC Work Plan.
- 2. Foluso Afelumo provided an update on Internet Explorer 11 End of Life support and its impacts to PJM applications.
- X. Dave Anders, PJM, provided an update on the voting protocols for Board elections at the May Members Committee meeting.

#### **Endorsements/Approvals**

#### 3. Start-Up Cost Offer Development

Tom Hauske reviewed the Revised PJM/IMM Proposal addressing Start-Up Cost Offer Development developed through the Cost Development Subcommittee.

The committee endorsed by acclimation the revised PJM/IMM proposal with 0 objections and 0 abstentions. A second acclamation vote showed stakeholders support for the revised PJM/IMM proposal over status quo with 0 objections and 0 abstentions.

Issue Tracking: Start-Up Cost Offer Development

#### First Readings

#### 4. Manual 29 Revisions

Natasha Holter provided a first read of revisions to Manual 29: Billing as part of the periodic review. The committee will be asked to endorse the revisions at its next meeting.

#### 5. Manual 11 and Manual 28: Stability Limit Changes

Zhenyu Fan and Rebecca Stadelmeyer provided education and a first read of conforming updates to Manual 11: Energy & Ancillary Services Market Operations and Manual 28: Operating Agreement Accounting. The committee will be asked to endorse these revisions at its next meeting.

Issue Tracking: Stability Limits in Markets and Operations

#### 6. Manual 11 and Manual 28: Intelligent Reserve Deployment Changes

Damon Fereshetian and Rebecca Stadelmeyer provided education and a first read of updates to Manual 11: Energy & Ancillary Services Market Operations and Manual 28: Operating Agreement Accounting. The committee will be asked to endorse these revisions at its next meeting.





Issue Tracking: Synchronized Reserve Event Actions and Expectations

#### Working Items - Part 1

#### 7. Market Suspension

- a) Stefan Starkov provided an update on the PJM/IMM Package.
- b) Lisa Morelli facilitated a discussion to review and develop additional proposals on the Market Suspension matrix as part of the Consensus Based Issue Resolution process. No additional proposals were offered beyond the PJM/IMM package at this meeting. Follow up will be conducted with the sponsor of Package B between meetings to determine if that package is still being offered for the committee's consideration. Morelli suggested to the committee that the April MIC discussion be treated as the first read for this item if follow up conversations confirm that Package B is no longer being offered and the PJM/IMM package is the only package remaining. The committee did not object to this approach and will therefore be asked to vote on the PJM/IMM package at the May MIC pending the outcome of that discussion.

Issue Tracking: Rules Related to Market Suspension

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

Lisa Morelli facilitated a discussion to identify additional interests and design components 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 on this issue at its next meeting.

Issue Tracking: Capacity Offer Opportunities for Generation with Co-Located Load

#### **Additional Items**

#### 9. Energy Market Must Offer Requirement Education

Roger Cao, PJM, provided education on the energy must offer requirement for committed Generation Capacity Resources. The intention of this education was to ensure that market participants understand the energy must offer rules and how to comply with them.

#### 10. Cost Development Subcommittee Update

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

#### Working Items – Part 2

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

- a) Brian Weathers provided education on the current Tariff, Operating Agreement and Manual requirements regarding the calculation of Balancing Operating Reserve Credits, specifically as it relates to eligibility for Balancing Operating Reserve Credits and the MW level to which resources are made whole.
- b) Joel Luna, IMM, provided education on examples of situations where resources do not follow dispatch and receive uplift.





The committee will continue working the Consensus Based Issue Resolution (CBIR) process on this issue at its next meeting with additional education and interest identification.

Issue Tracking: Operating Reserve Clarification for Resources Operating as Requested by PJM

#### **Informational Section**

#### **Interregional Coordination Update**

Materials are posted as informational only.

#### **Fast Start Pricing Monthly Metrics Update**

Materials are posted as informational only.

#### Manual 3: Transmission Operations Periodic Review Update

Materials are posted as informational only.

#### nGEM Project 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.
May 11	9 a.m.	WebEx	April 29	May 4
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

Last Name	First Name	Company	Sector
Morelli (Chair)	Lisa	PJM Interconnection	None
Strella Wahba (Secretary)	Lauren	PJM Interconnection	None
Àfelumo	Foluso	PJM Interconnection	None
Baker	Jeff	Duke Energy Ohio, Inc.	Transmission Owner
Bastian	Jeff	PJM Interconnection	None
Beban	Madalyn	PJM Interconnection	None
Benchek	Jim	American Transmission Systems, Inc.	Transmission Owner
Berg	Bill	Constellation Energy Generation, LLC	Generation Owner
Bowker	Shannon	PJM Interconnection	None
Bowring	Joe	Monitoring Analytics	None
Boyle	Glen	PJM Interconnection	None
Bresler	Stu	PJM Interconnection	None
Brodbeck	John	EDP Renewables North America LLC	Generation Owner
Bruno	Patrick	PJM Interconnection	None
Bryson	Mike	PJM Interconnection	None
Callen	Zachary	Illinois Commerce Commission	None
Campbell	Bruce	EnergyConnect, Inc	Other Supplier
Campbell	Jeff		
Cao	Roger	PJM Interconnection	None
Carmean	Greg	OPSI	None
Carrier	Ron	Big Lake Consulting	None
Carroll	Rebecca	PJM Interconnection	None





Caven	Augustine	PJM Interconnection	None
Chang	Sean	Shell Energy North America (US), L.P.	Other Supplier
Chmielewski	Brian	PJM Interconnection	None
Christopher	Mahila	Public Utilities Commission of Ohio	None
Chu	George	PJM Interconnection	Not Applicable
Cocco	Michael	Old Dominion Electric Cooperative	Electric Distributor
Cochran	Matt	'	
Colaresi	Chandra	Cpower Energy Management	None
Corash	Rich	PSEG Energy Resources & Trade LLC	Other Supplier
Croop	Danielle	PJM Interconnection	None
D'Antonio	Philip	PJM Interconnection	None
Davis	Mike	Northern Virginia Electric Cooperative	Electric Distributor
Davis	Jim	Dominion Energy Generation Marketing, Inc.	Generation Owner
Diiorio	Michelle	PSEG Energy Resources & Trade LLC	Other Supplier
Ding	Yi	PJM Interconnection	None
DiNicola	Laura	FirstEnergy Corporation	Transmission Owner
DiSciullo	Nicholas	PJM Interconnection	None
Downs	Jere	PJM Interconnection	None
Drom	Rick		
Duensing	Allison	Saracen Energy East LP	Other Supplier
Dugan	Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Edgar-Smith	Colin	PJM Interconnection	None
Egan	Amanda	PJM Interconnection	None
Esquivel	Manuel		
Esterly	Theresa	PJM Interconnection	None
Fan	Zhenyu	PJM Interconnection	None
Fazio-Engelhart	Danielle	Noble Americas Gas & Power Corp.	Other Supplier
Fereshetian	Damon	PJM Interconnection	None
Filomena	Guy	Customized Energy Solutions, Ltd.	None
Flamm	Sean	PJM Interconnection	None
Foladare	Kenneth	Geenex Solar LLC	Generation Owner
Foster Cronin	Denise	East Kentucky Power Cooperative, Inc.	Transmission Owner
Fuess	Christian	PBF Power Marketing, LLC	Generation Owner
Gajdowski	Denise	PJM Interconnection	None
Garnett	Bryan	Duke Energy Ohio, Inc	Transmission Owner
Gates	Terry	Appalachian Power Company (AEP Generation)	Transmission Owner
Gilani	Rehan	ConEdison Energy, Inc.	Other Supplier
Graham	Sopie	Adapt2 Solutions, Inc	None
Greening	Michele	PJM Interconnection	None
Halay	Alina	The Federal Energy Regulatory Commission	None
Hastings	David	Market Interconnection Consulting Services (MICS)	None
Hauske	Tom	PJM Interconnection	None
Heisey	Brad	Wolf Hills Energy, LLC	Generation Owner
Helms	Joe	Rainbow Energy Marketing Corporation	Other Supplier





Hicks	Colleen	PJM Interconnection	None
Hoatson	Thomas	Riverside Generating, LLC	Generation Owner
Hohenshilt	Jennifer	Talen Energy Marketing, LLC	Generation Owner
Holter	Natasha	PJM Interconnection	None
Hooker	Marquette	Dominion Energy Generation Marketing, Inc	Generation Owner
Horger	Tim <sup>·</sup>	PJM Interconnection	None
Horning	Lynn	Customized Energy Solutions, Ltd.	None
Horstmann	John	Dayton Power & Light Company (The)	<b>Transmission Owner</b>
Hough	Denny	PJM Interconnection	None
Hsia	Eric	PJM Interconnection	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, LLC	None
ller	Art	Indiana Office of Utility Consumer Counsel	<b>End-Use Customer</b>
Janicki	Diane	Boston Energy Trading & Marketing, LLC	Other Supplier
Jardot	Gina	NRG Power Marketing, LLC	Generation Owner
Jett	Bill	Duke Energy Business Services LLC	Transmission Owner
Johnson	Carl	Customized Energy Solutions, Ltd.	None
Kazerooni	Hamid	PJM Interconnection	None
Keech	Adam	PJM Interconnection	None
Kelly	Stephen	Brookfield Energy Marketing LP	Other Supplier
Kent	Janessa	Duquesne Light Company	Transmission Owner
Kilgallen	Kevin	Avangrid Renewables LLC	Generation Owner
Kingston	Amber	North Carolina Electric Membership Corporation	Electric Distributor
Kogut	George	New York Power Authority	Other Supplier
Lai	Erin	PJM Interconnection	None
Laios	Takis	AEP Appalachian Transmission Company, Inc.	<b>Transmission Owner</b>
Lejcar	Jamie	Allegheny Electric Cooperative, Inc.	Electric Distributor
Liang-Nicol	Cecilia	Monongahela Power Company	Transmission Owner
Lowenthal-Savy	Danielle	Monitoring Analytics	None
Lu	Chen	PJM Interconnection	None
Mabry	David	McNees Wallace & Nurick LLC	None
Marcino	Angelo	PJM Interconnection	None
Markiewicz	Cindy	FirstEnergy Corporation	Transmission Owner
Mathew	Lagy	PJM Interconnection	None
Matuszak	Alex	UGI Energy Services, LLC	Other Supplier
McGlynn	Paul	PJM Interconnection	None
McLaverty	Megan	PJM Interconnection	None
McNeil	Justin	Office of the Attorney General, Kentucky	End-Use Customer
McNicholas	Daniel		
Midgley	Sharon	Exelon Business Services Company, LLC	Generation Owner
Militello	Nikki	PJM Interconnection	None
Miller	John	Commonwealth Edison Company	Transmission Owner



VanderLaan

Bill

# **Draft Meeting Minutes**



None

Monroe	Diane	PJM Interconnection	None
Monzon	Stephanie	PJM Interconnection	None
Mooney	Jeff	FirstEnergy Corporation	Transmission Owner
Mroz	David	PJM Interconnection	None
O'Hara	Bernie	Sargent & Lundy	None
Olaleye	Michael	PJM Interconnection	None
Oliveira de Paiva	Marcelo	1 divi interconnection	None
Ondayko	Brock	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Pakela	Gregory	DTE Energy Trading, Inc.	Other Supplier
Patel	Keyur	PJM Interconnection	None
Peoples	John	Duquesne Light Company	Transmission Owner
Phillips	Amanda	Wabash Valley Power Association, Inc.	Electric Distributor
Pilong	Melissa	PJM Interconnection	None
Poulos	Greg	CAPS	None
Pratt	Nick	PPL Electric Utilities Corp.	Transmission Owner
Purdie	Michael	Dominion Virginia Power	None
Rahimi	Farrokh	OATI Energy Trading	None
Reiter	Heather	PJM Interconnection	None
Robinson	Becky	Vista Energy Marketing, L.P.	Other Supplier
Rohrbach	John	Southern Maryland Electric Cooperative, Inc.	Electric Distributor
Romero Luna	Joel	Monitoring Analytics	None
Ruck	Andrew	Freepoint Commodities LLC	Other Supplier
Rutledge	Craig	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Sasser	Jonathan	Customized Energy Solutions, Ltd.	None
Schisler	Ken	Enel X North America, Inc.	Other Supplier
Schuyler	Ken	PJM Interconnection	None
Schweizer	David	PJM Interconnection	None
Scott	Nicole	PJM Interconnection	None
Servera	Max	Unicia Energy LP	Other Supplier
Shanker	Roy	H.Q. Energy Services (U.S.), Inc	Other Supplier
Silveira	Fabiano	Strom Power, LLC	Other Supplier
Smolanitsky	Yuri	PJM Interconnection	None
Sorrels	Jim	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Souder	Michelle	PJM Interconnection	None
Squibb	Bill	Ohio Valley Electric Corp	Transmission Owner
Starkov	Stefan	PJM Interconnection	None
Stern	Alex	Public Service Electric & Gas Company	Transmission Owner
Stone	Andy	PJM Interconnection	None
Sturgeon	John	Duke Energy Business Services LLC	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

Illinois Commerce Commission



Walcavich	Colin	National Grid Renewables, LLC	None
Ward	Michael	PJM Interconnection	None
Warshel	Kim	PJM Interconnection	None
Wehnes	Kathleen	Maryland Public Service Commission	None
Whitehead	Jeff	GT Power Group	None
Yoder	Michael	RTO Insider	None
Yovanovich	Laura	PJM Interconnection	None
Zhang	Michael	PJM Interconnection	None
Zhao	Tong	PJM Interconnection	None

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#### 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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To enter the question queue (does not work during a vote)



To be removed from the question queue



To signal for PJM support staff assistance

#### **During an Acclamation Vote**

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.



Yes



Abstain



No

To signal for PJM support staff assistance

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- 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.

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