

## Market Implementation Committee (MIC)

WebEx Only

January 12, 2022

9:00 a.m. – 12:15 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 December 1, 2021 Market Implementation Committee meeting with **0 objections and 0 abstentions**.

Stephen Bennett, PJM, provided an update on the status of Pennsylvania's participation in the Regional Greenhouse Gas Initiative (RGGI) as it relates to the offers of Pennsylvania generators in the energy market.

#### 1. **Weak Encryption Retirement**

Amanda Egan provided an update on the retirement of Weak Encryption and its impact to the Voting Application.

#### 2. **FERC Order on Voluntary Remand (Reserve Price Formation)**

PJM provided an overview of the FERC's December 22, 2021 order on voluntary remand (Reserve Price Formation – dockets EL19-58-006, ER19-1486-003) and next steps for the required compliance filings. The discussion included an overview of the draft capacity market base residual auction (BRA) schedule, treatment of the Energy & Ancillary Services offset for the upcoming BRA and application of offer capping in the reserve market.

### Endorsements/Approvals

#### 3. **De-Energized Bus Replacement**

Vijay Shah reviewed revisions to Manual 11: Energy and Ancillary Services Market Operations as part of 5 Minute Dispatch and Pricing. The changes address enhancements to the Dead Bus Replacement logic for assigning prices to de-energized pricing nodes.

**The committee endorsed the Manual 11 revisions by acclamation with 0 objections and 0 abstentions.**

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

Jason Barker, Exelon, reviewed a problem statement and issue charge addressing the treatment of generation with co-located load. Revisions were made to the Key Work Activities and Scope section of the Issue Charge during the meeting to address federal and state jurisdictional bounds impacting co-located load configurations and the potential impact of co-located load configurations on generator capacity capability. A "Post-Meeting" version of the Issue Charge has been posted to the meeting materials.

**The committee approved the revised Issue Charge with 207 (92%) in favor, 17 (8%) opposed, and 29 abstentions.**

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

5. **Pseudo Modeled Combined Cycle Minimum Run Time Guidance**

Tom Hauske reviewed education and a Problem Statement and Issue Charge addressing Pseudo Modeled Combined Cycle Minimum Run Time Guidance. **The committee approved the 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.**

Upon Issue Charge approval, the committee began interest identification and work on the Consensus Based Issue Resolution matrix. PJM provided draft design components, options and a solution package to jump start the discussion in this CBIR Lite process. Additional design components and solution options can be provided in advance of the next meeting. If no additional design components or solution options are provided in advance of nor during its next meeting, the discussion at the January committee meeting will be treated as a first read of the proposal and the committee will be asked to vote on the proposal at its next meeting.

[Issue Tracking: Pseudo Modeled Combined Cycle Minimum Run Time Guidance](#)

## First Readings

6. **Manual 18 Revisions – MOPR and MSOC**

This issue was removed from the agenda. Additional revisions to Manual 18: PJM Capacity Market are required as a result of FERC’s December 22, 2021 order directing PJM to reinstate the historic net EAS methodology. The Manual 18 revisions that were to be provided as a first read during this meeting remain posted to the meeting materials as the edited sections are still accurate. PJM will provide a first read of the updated Manual 18 revisions at the next MIC meeting.

7. **Manual 27 Revisions – PJM Administrative Rate**

Rebecca Stadelmeyer provided a first read of conforming revisions to Manual 27: Open Access Transmission Tariff Accounting resulting from PJM’s recent formula rate filing (Docket No. ER22-26).

## Working Items

8. **Market Suspension**

- a) Stefan Starkov provided an overview of the marginal price method addressing Market Suspension.
- b) Joe Bowring, IMM, provided an overview of alternative approaches addressing Market Suspension.

PJM and the IMM will work offline to create a joint proposal and the committee will continue the CBIR process at its next meeting.

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

## Additional Items

9. **Unit Specific Parameter Adjustment Process**

Lauren Strella Wahba provided an update on the Unit Specific Parameter Adjustment Process.

## 10. Cost Development Subcommittee Update

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

### January 11<sup>th</sup> Pricing Discussion

In response to stakeholder requests during the meeting, Phil D’Antonio, PJM, provided a verbal update on the factors contributing to some high energy market prices observed on January 11<sup>th</sup>.

## Informational Section

### 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](#).

### 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.
February 9	9 a.m.	WebEx	January 28	February 2
March 9	9 a.m.	WebEx	February 25	March 2
April 13	9 a.m.	WebEx	April 1	April 6
May 11	9 a.m.	WebEx	April 29	May 4
June 8	9 a.m.	WebEx	May 26	June 1

Author: Nicholas DiSciullo

## WebEx Meeting Attendees

Names	Company Name	Sector
Lisa Morelli (Chair)	PJM Interconnection, LLC	Not Applicable
DiSciullo, Nicholas (Secretary)	PJM Interconnection, LLC	Not Applicable
Adams, Chris	East Kentucky Power Cooperative, Inc.	Transmission Owner
Anders, David	PJM Interconnection, LLC	None
Anderson, Jared	S&P Global Inc.	None
Baizman, Aaron	PJM Interconnection, LLC	None
Baker, Scott	PJM Interconnection, LLC	None
Barker, Jason	Exelon Business Services Company, LLC	Transmission Owner
Bastian, Jeff	PJM Interconnection, LLC	None
Beban, Madalyn	PJM Interconnection, LLC	None
Benchek, Jim	American Transmission Systems, Inc.	Transmission Owner
Bennett, Stephen	PJM Interconnection, LLC	None
Berg, William	Exelon Generation Co., LLC	Generation Owner
Bernstein, Matthew	PJM Interconnection, LLC	None
Birnholtz, Zach	Voltus, Inc.	Other Supplier
Bleiweis, Bruce	DC Energy LLC	Other Supplier
Bloom, David	Baltimore Gas and Electric Company	Transmission Owner
Bowring, Joe	Monitoring Analytics, LLC	None
Bowring, Joseph	Monitoring Analytics, LLC	None
Boyle, Glen	PJM Interconnection, LLC	None
Breidenbaugh, Aaron	Rodan Energy Solutions (USA) Inc.	Other Supplier
Bresler, Stu	PJM Interconnection, LLC	None
Brodbeck, John	EDP Renewables North America, LLC	Generation Owner
Brouillette, Kyle	Indiana Municipal Power Agency	Electric Distributor
Bruno, Joshua	PJM Interconnection, LLC	None
Bruno, Patrick	PJM Interconnection, LLC	None
Bryson, Michael (Mike)	PJM Interconnection, LLC	None
Burdis, Tim	PJM Interconnection, LLC	None
Burnham, Kat	Advanced Energy Economy (AEE)	None
Callaghan, Chris	PJM Interconnection, LLC	None
Callen, Zachary (Zac)	Illinois Commerce Commission	None
Campbell, Bruce	EnergyConnect, Inc.	Other Supplier
Canter, David	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Cao, Roger	PJM Interconnection, LLC	None
Carrier, Ronald (Ron)	Big Lake Consulting	None
Chang, Sean	Shell Energy North America (US), L.P.	Other Supplier
Chen, Hong	PJM Interconnection, LLC	None
Chintapalli, Raj	BP Energy Company	Other Supplier
Chmielewski, Brian	PJM Interconnection, LLC	None
Christopher, Mahila	Public Utilities Commission of Ohio (The)	None
Chu, Michael	Forest Investment Group, LLC	Other Supplier
Colaresi, Chandra	Enerwise Global Technologies, Inc.	Other Supplier
Corash, Richard	PSEG Energy Resources & Trade LLC	Other Supplier
Cox, Jason	Dynegy Power Marketing, Inc.	Generation Owner
Coyle, Billy	Dominion Virginia Power	None
Croop, Danielle	PJM Interconnection, LLC	None

D'Alessandris, Lou	FirstEnergy Corporation	Transmission Owner
D'antonio, Phil	PJM Interconnection, LLC	None
Davis, Elizabeth (Becky)	PJM Interconnection, LLC	None
Davis, James (Jim)	Dominion Energy Generation Marketing, Inc.	Generation Owner
Davis, Mike	Northern Virginia Electric Cooperative	Electric Distributor
DeVita, Thomas	PJM Interconnection, LLC	None
Di Iorio, Michelle	PSEG Energy Resources & Trade LLC	Other Supplier
Dillon, Matthew	UGI Development Company	Generation Owner
Dolan, James	PJM Interconnection, LLC	None
Domian, Christin	Duquesne Light Company	Transmission Owner
Dorko, Keri	Monitoring Analytics, LLC	None
Douglass, Robert	Exelon Generation Co., LLC	Generation Owner
Downs, Jere	PJM Interconnection, LLC	None
Drom, Richard (Rick)	Eckert Seamans	None
Dropkin, Ilyana	PJM Interconnection, LLC	None
Dugan, Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Dumitriu, Nicolae	PJM Interconnection, LLC	None
Egan, Amanda	PJM Interconnection, LLC	None
Elkins, Rachel	FirstEnergy Corporation	Transmission Owner
Ericson, Christine	Illinois Commerce Commission	None
Esterly, Theresa	PJM Interconnection, LLC	None
Fabiano, Janell	PJM Interconnection, LLC	None
Farhat, Michelle	PJM Interconnection, LLC	None
Fereshetian, Damon	PJM Interconnection, LLC	None
Fernandes, Zeenath	PJM Interconnection, LLC	None
Fernandez, Ray	PJM Interconnection, LLC	None
Filomena, Guy	Customized Energy Solutions, Ltd.*	None
Fishback, Luke	Affirmed Energy LLC	Other Supplier
Fitch, Neal	NRG Power Marketing LLC	Generation Owner
Fitzpatrick, Brian	PJM Interconnection, LLC	None
Foladare, Kenneth (Ken)	Geenex Solar LLC	Other Supplier
Foley, Sheila	PJM Interconnection, LLC	None
Ford, Adrien	Old Dominion Electric Cooperative	Electric Distributor
Foster Cronin, Denise	East Kentucky Power Cooperative, Inc.	Transmission Owner
Fox, Angela	Wylan Energy, L.L.C.	None
Freeman, Jennifer	PJM Interconnection, LLC	None
Fuerst, Gary	American Transmission Systems, Inc.	Transmission Owner
Fuess, Christian	PBF Power Marketing, LLC	Generation Owner
Gagen, Rod	Dominion Virginia Power	None
Garnett, Bryan	Duke Energy Ohio, Inc.	Transmission Owner
Gates, Jill	PJM Interconnection, LLC	None
Gates, Terry	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Gibbons, Jaret	ARIPPA	None
Gilani, Rehan	ConEdison Energy, Inc.	Other Supplier
Glazer, Craig	PJM Interconnection, LLC	None
Good, Megan	Pennsylvania Public Utility Commission	None
Graf, Walter	PJM Interconnection, LLC	None
Graham, Sophie	Adapt2 Solutions, Inc.	None
Granstrand, Luke	Dominion Virginia Power	None
Greening, Michele	PJM Interconnection, LLC	None



Guistwhite, Jeffrey	EnergyConnect, Inc.	Other Supplier
Hagaman, Derek	GT Power Group	None
Hanser, Erik	Michigan Public Service Commission	None
Hastings, David	Market Interconnection Consulting Services (MICS)	None
Hauske, Thomas	PJM Interconnection, LLC	None
Heinle, Frederick (Erik)	Office of the Peoples Counsel for the District of Columbia	End-Use Customer
Helms, Joseph	Rainbow Energy Marketing Corporation	Other Supplier
Herel, Suzanne	PJM Interconnection, LLC	None
Hoatson, Thomas (Tom)	Riverside Generating, LLC	Generation Owner
Hohenshilt, Jennifer	Talen Energy Marketing, LLC	Generation Owner
Horger, Tim	PJM Interconnection, LLC	None
Horning, Lynn Marie	Customized Energy Solutions, Ltd.*	None
Horstmann, John	Dayton Power & Light Company (The)	Transmission Owner
Hsia, Eric	PJM Interconnection, LLC	None
Hudis, Gabriella	Jersey Green Energy LLC	Other Supplier
Huff, Alex	Aces Power Marketing Inc.	None
Hull, Gerit	American Municipal Power, Inc.	Electric Distributor
Huntoon, Stephen	Chesapeake Transmission LLC	Other Supplier
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
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
Jett, Jason	BYHM Capital LLC	None
Johnson, Carl	Customized Energy Solutions, Ltd.*	None
Johnston, David	Indiana Utility Regulatory Commission	None
Josyula, Siva	Monitoring Analytics, LLC	None
Kauffman, Brian	Enel X North America, Inc.	Other Supplier
Kayne, Samuel	State of Delaware	None
Keech, Adam	PJM Interconnection, LLC	None
Keenan, Matthew	Jpower USA	None
Kelly, Stephen	Brookfield Energy Marketing LP	Other Supplier
Kenney, Susan	PJM Interconnection, LLC	None
Kilgallen, Kevin	Avangrid Renewables LLC	Generation Owner
Kimmel, David	PJM Interconnection, LLC	None
Kogut, George	New York Power Authority	Other Supplier
Lai, Erin	PJM Interconnection, LLC	None
Laios, Takis	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Langbein, Pete	PJM Interconnection, LLC	None
Lawson, Ryen	Dominion Virginia Power	None
Leasure, Jill	Keystone Projects	None
Lejcar, Jamie	Allegheny Electric Cooperative, Inc.	Electric Distributor
Liang-Nicol, Cecilia	Monongahela Power Company d/b/a Allegheny Power	Transmission Owner
Libbos, Robin	FirstEnergy Corporation	Transmission Owner
Lieberman, Steven	American Municipal Power, Inc.	Electric Distributor
Lu, Chenchao	PJM Interconnection, LLC	None
Mabry, David	McNees Wallace & Nurick LLC	None
Marcino, Angelo	PJM Interconnection, LLC	None
Markiewicz, Cindy	FirstEnergy Corporation	Transmission Owner

Martin, Valerie	The Federal Energy Regulatory Commission	None
Marzewski, Skyler	Monitoring Analytics, LLC	None
Matheson, Eric	Pennsylvania Public Utility Commission	None
Matuszak, Alex	UGI Energy Services, LLC	Other Supplier
McArdle, Brian	NextEra Energy Power Marketing, 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
Militello, Nicole	PJM Interconnection, LLC	None
Miller, John	Commonwealth Edison Company	Transmission Owner
Mitchell, Colten	IMPA	Generation Owner
Mok, Alan	Duke Energy Kentucky, Inc.	Transmission Owner
Mooney, Jeffrey	FirstEnergy Corporation	Transmission Owner
Moye, Bob	Rainbow Energy Marketing Corporation	Other Supplier
Mroz, David	PJM Interconnection, LLC	None
Muhl, Nancy	PJM Interconnection, LLC	None
Nix, Emma	Gable and Associates	None
Nowell, Cynthia	Delmarva Power & Light Company	Electric Distributor
Olaleye, Michael	PJM Interconnection, LLC	None
Olinger, Robert	Keystone Projects	None
Ondayko, Brock	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Orphanides, Lindsay	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Pakela, Greg	DTE Energy Trading, Inc.	Other Supplier
Patel, Keyur	PJM Interconnection, LLC	None
Peebles, Andy	Saracen Energy East LP	Other Supplier
Pelletier, Eveline	Hydro-Quebec	None
Peoples, John	Duquesne Light Company	Transmission Owner
Perera, Asanga	PJM Interconnection, LLC	None
Philips, Marji	Direct Energy Business Marketing, LLC	Other Supplier
Phillips, Darlene	PJM Interconnection, LLC	None
Pilong, Christopher	PJM Interconnection, LLC	None
Pilong, Melissa	PJM Interconnection, LLC	None
Poulos, Greg	CAPS	None
Pratt, Nicholas (Nick)	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Proconiar, Jason	Dayton Power & Light Company (The)	Transmission Owner
Pungaliya, Rajat	Pine Gate Mid-Atlantic, LLC	Other Supplier
Redwine, Arlo	The Federal Energy Regulatory Commission	None
Robinson, Becky	Vista Energy Marketing, L.P.	Other Supplier
Rocha-Garrido, Patricio	PJM Interconnection, LLC	None
Rodriguez, Tomas	OPSI	None
Rogers, Aaron	East Kentucky Power Cooperative, Inc.	Transmission Owner
Rohrbach, John	Southern Maryland Electric Cooperative, Inc.	Electric Distributor
Rorie, Lezael	Southern Maryland Electric Cooperative, Inc.	Electric Distributor
Rumsey, Amanda	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Rutledge, Craig	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Salaneck, Alexandra	Monitoring Analytics, LLC	None
Sander, Eric	Michigan Public Service Commission	None
Sasser, Jonathan	Customized Energy Solutions, Ltd.*	None

Scheidecker, Paul	PJM Interconnection, LLC	None
Schisler, Ken	Enel X North America, Inc.	Other Supplier
Schreim, Morris	Maryland Public Service Commission	None
Schroeder, Connie	Dominion Virginia Power	None
Schuyler, Ken	PJM Interconnection, LLC	None
Scott, Nicole	PJM Interconnection, LLC	None
Seirig, Bahaa	Con Edison Co. of NY	None
Servera, Max	Unicia Energy LP	Other Supplier
Shah, Vijay	PJM Interconnection, LLC	None
Shaikh, Mohammed	Plus Power, LLC	None
Shanker, Roy	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Sorrels, James	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Sotkiewicz, Paul	E-Cubed Policy Associates	None
Souder, Michelle	PJM Interconnection, LLC	None
Squibb, Bill	Ohio Valley Electric Corp	Transmission Owner
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
Strella Wahba, Lauren	PJM Interconnection, LLC	None
Stuchell, Jeff	FirstEnergy Corporation	Transmission Owner
Stupar, Rob	Invenergy, LLC	Generation Owner
Sturgeon, John	Duke Energy Carolinas, LLC	Other Supplier
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
Terranova, Chris	PJM Interconnection, LLC	None
Theodore, Sharon	Electric Power Supply Association	None
Tribulski, Jennifer (Jen)	PJM Interconnection, LLC	None
Tutino, Joseph	PJM Interconnection, LLC	None
Tyler, Catherine	Monitoring Analytics, LLC	None
VanderLaan, D. William	Illinois Commerce Commission	None
Vayda, Brian	Borough of Park Ridge, NJ	Electric Distributor
Wadsworth, Joseph	Vitol Inc.	Other Supplier
Walcavich, Colin	National Grid	None
Wannop, Allison	Voltus, Inc.	Other Supplier
Ward, Michael	PJM Interconnection, LLC	None
Warshel, Kim	PJM Interconnection, LLC	None
Watkin, Erik	PJM Interconnection, LLC	None
Whitehead, Jeffrey	GT Power Group	None
Widom, Stuart	PJM Interconnection, LLC	None
Wilson, James	Wilson Energy Economics	None
Wisersky, Megan	Madison Gas & Electric Company	Other Supplier
Yoder, Michael	RTO Insider	None
Zemanek, Kevin	Buckeye Power, Inc.	Electric Distributor
Zhang, Michael (Mike)	PJM Interconnection, LLC	None
Zhao, Tong	PJM Interconnection, LLC	None