

Market Implementation Committee
PJM Conference & Training Center, Audubon, PA
September 11, 2019
9:00 a.m. – 4:00 p.m. EPT

Administration

Ms. Bhavana Keshavamurthy, PJM, and Ms. Lisa Morelli, PJM, provided announcements; reviewed the Antitrust, Code of Conduct, Public Meetings/Media Participation and the WebEx Participant Identification Requirement.

The Committee approved the draft minutes from the August 7, 2019 Market Implementation Committee (MIC) meeting with **0 objections and 0 abstentions**.

- A. Ms. Keshavamurthy, PJM, reviewed the timeline of the PJM Stakeholder Survey which will be open from Monday, September 30, until Friday, October 11 and noted that PJM will be updating its current stakeholder email communication tool later this year. The survey notifications will be sent using the new tool. Stakeholders are being asked to provide their IT departments the IP address, 13.111.63.217, to ensure members receive stakeholder communications from the new tool. If subscribers are unable to whitelist the IP address, they should check the company spam folder to allow communications from “@lists.pjm.com”.
- B. Ms. Morelli, PJM, provided the following updates on open issues at the MIC :
 - i. Education on the Stability Limits in Markets and Operations issue will be deferred to the October MIC due to PJM SME availability for the September MIC.
 - ii. A MIC Special Session: Gas Pipeline Contingencies has been scheduled for September 27, 2019 to continue discussions and solicit feedback from stakeholders. The meeting is open for registration.
 - iii. A MIC Special Session: Five Minute Dispatch and Pricing has been scheduled for October 2, 2019. The meeting is open for registration.
- C. Ms. Keshavamurthy, PJM, provided an update on the MIC Special Session: Fuel Cost Policy. The group will work through the details of the compromise proposal at the MIC Special Session scheduled on September 16, 2019 with the expectation of bringing the proposals for a first read to the October MIC.
- D. Ms. Jennifer Tribulski, PJM, provided an update on the FTR Waiver Order settlement proceedings. PJM and the stakeholders are currently working on a settlement package that is expected to be filed with FERC on October 9, 2019. The parties will schedule a meeting in advance of when the comments are due on this filing to solicit feedback from the stakeholders.

Endorsements/Approvals

2. Opportunity Cost Calculator

A. Mr. James Davis, Dominion Energy, and Mr. Abhijit Rajan, Dominion Energy, presented a summary of the Panda/Dominion proposal.

B. Mr. Glen Boyle, PJM, presented a summary of the PJM Proposal.

The committee endorsed the Panda/Dominion proposal with 134(84%) in favor, 26(16%) opposed and 27 abstentions.

The committee endorsed the PJM proposal with 61(51%) in favor, 58(49%) opposed and 59 abstentions.

The committee also preferred the Panda/Dominion proposal over the Status Quo with 158(85%) in favor, 28(15%) opposed and 5 abstentions.

The Panda/Dominion proposal moves to the Markets and Reliability Committee as the primary motion with the PJM proposal as the alternate motion.

[Issue Tracking: Opportunity Cost Calculator](#)

3. Load Management Testing Requirements

A. Mr. Pete Langbein, PJM, provided an overview of the five Load Management Test proposals developed at the Demand Response Subcommittee.

B. Mr. Bruce Campbell, CPower, and Mr. Dave Mabry, PJM Industrial Customer Coalition, provided an overview of the CSP1 proposal.

C. Mr. Brian Kaufman, Enel X, provided an overview of the CSP2 proposal.

D. Mr. Jack O'Neill, PJM, provided an overview of PJM's proposals.

The committee did not endorse the CSP1 proposal with 62(34%) in favor, 122(66%) opposed and 8 abstentions.

The committee endorsed the CSP2 proposal with 95(53%) in favor, 84(47%) opposed and 5 abstentions.

The committee endorsed the PJM1a proposal with 125(75%) in favor, 42(25%) opposed and 29 abstentions.

The committee did not endorse the PJM3 proposal with 28(15%) in favor, 160(85%) opposed and 5 abstentions.

The committee did not endorse the IMM proposal with 46(26%) in favor, 134(74%) opposed and 2 abstentions.

The committee also preferred the PJM1a proposal over the Status Quo with 128(67%) in favor, 62(33%) opposed and 2 abstentions.

The PJM1a proposal moves to the Markets and Reliability Committee as the primary motion with the CSP2 proposal as the alternate motion.

[Issue Tracking: Load Management Testing Requirements](#)

First Readings

4. ARR/FTR Market Review

Mr. Howard Haas, Monitoring Analytics, provided a first read of a problem statement and issue charge related to the review of the ARR/FTR Market Construct. Stakeholders provided feedback and requested clarifications be added to clearly define the deliverables listed in the issue charge. Stakeholders also

requested that the expected duration of the work timeline be extended from six months to twelve months. The committee will be asked to vote on a revised issue charge at the October MIC.

Working Items

5. Five Minute Dispatch and Pricing

- A. Ms. Catherine Tyler, Monitoring Analytics, presented education on how other RTOs/ISOs align dispatch and pricing for a given interval.
- B. Mr. Angelo Marcino, PJM, presented education on current PJM alignment of dispatch and pricing for a given interval.

6. Interregional Incremental Auction Revenue Rights

Mr. Brian Chmielewski, PJM, reviewed the Interregional Incremental Auction Revenue Rights (IARR) issue and presented three potential paths forward. Absent any feedback from stakeholders, PJM will recommend status quo. Members are encouraged to review the posted materials and provide additional proposals to the FTRGroup@pjm.com.

[Issue Tracking: Interregional Incremental Auction Revenue Rights](#)

Additional Updates

7. FERC Form No. 715 Updates

Ms. Pauline Foley, PJM, provided a high level overview of the recent FERC orders issued on Form 715 transmission projects.

8. 2020 PJM Project Budget

Mr. Jim Snow, PJM, provided an overview of the preliminary 2020 PJM project budget.

9. nGEM Project Update

Mr. Todd Keech, PJM, provided an update on the Next Generation Energy Markets (nGEM) markets software replacement project. PJM will provide periodic updates at the MIC to keep the stakeholders informed of the project's progress.

10. Manual 11 revisions

Mr. Michael Olaleye, PJM, provided an update on changes made to Manual 11: Energy & Ancillary Services associated with regulation historical performance scores based on stakeholder feedback at the August Markets and Reliability Committee (MRC). The MRC will vote on these manual changes at the September MRC.

11. CP Unit Specific Parameter update

Ms. Lauren Strella Wahba, PJM, provided an update on CP Unit Specific Parameters process and the implementation of soak time parameter.

Informational Section

Credit Subcommittee (CS)

Meeting materials will be posted to the [CS website](#).

Demand Response Subcommittee (DRS)

Meeting materials will be posted to the [DRS web site](#).

Intermittent Resources Subcommittee (IRS)

Meeting materials will be posted to the [IRS web site](#).

Interregional Coordination Update

Materials are posted as informational only.

Market Settlements Subcommittee (MSS)

Meeting materials are posted to the [MSS web site](#).

Report on Market Operations

The Report on Market Operations will be reviewed during the [MC Webinar](#).

Future Meeting Dates

October 16, 2019	9:00 a.m.	PJM Conference & Training Center/ WebEx
November 13, 2019	9:00 a.m.	PJM Conference & Training Center/ WebEx
December 11, 2019	9:00 a.m.	PJM Conference & Training Center/ WebEx

Author: Bhavana Keshavamurthy

In-Person Meeting Attendees

Names	Company Name	Sector
Morelli, Lisa (Chair)	PJM Interconnection, LLC	Not Applicable
Keshavamurthy, Bhavana (Secretary)	PJM Interconnection, LLC	Not Applicable
Baizman, Aaron	PJM Interconnection, LLC	Not Applicable
Benчек, Jim	American Transmission Systems, Inc.	Transmission Owner
Bleiweis, Bruce	DC Energy LLC	Other Supplier
Boyle, Glen	PJM Interconnection, LLC	Not Applicable
Bruno, Patrick	PJM Interconnection, LLC	Not Applicable
Campbell, Bruce	EnergyConnect, Inc.	Other Supplier
Carroll, Rebecca	PJM Interconnection, LLC	Not Applicable
Chmielewski, Brian	PJM Interconnection, LLC	Not Applicable
Ciabattoni, Joe	PJM Interconnection, LLC	Not Applicable
Colbert, Cathleen	NRG Power Marketing LLC	Generation Owner
Croop, Danielle	PJM Interconnection, LLC	Not Applicable
D'Alessandris, Lou	FirstEnergy Solutions Corp.	Transmission Owner
Davis, Elizabeth	PJM Interconnection, LLC	Not Applicable
Davis, Jim	Dominion Energy	Transmission Owner
DeVita, Thomas	PJM Interconnection, LLC	Not Applicable
Fernandez, Ray	PJM Interconnection, LLC	Not Applicable
Filomena, Guy	Customized Energy Solutions, Ltd.	Not Applicable
Foldare, Kenneth	Tangible	Not Applicable

Ford, Adrien	Old Dominion Electric Cooperative	Electric Distributor
Fuess, Christian	PBF Power Marketing	Generation Owner
Fuess, James	PBF Power Marketing	Generation Owner
Giacomoni, Anthony	PJM Interconnection, LLC	Not Applicable
Greening, Michele	PJM Interconnection, LLC	Transmission Owner
Greiner, Gary	PSEG Energy Resources and Trade LLC	Other Supplier
Haas, Howard	Monitoring Analytics, LLC	Not Applicable
Herel, Suzanne	PJM Interconnection, LLC	Not Applicable
Horger, Tim	PJM Interconnection, LLC	Not Applicable
Horning, Lynn Marie	Customized Energy Solutions, Ltd.*	Not Applicable
Horton, Dana	Appalachian Power Company	Transmission Owner
Hyzinski, Tom	GT Power Group	Not Applicable
Johnson, Carl	Customized Energy Solutions, Ltd.*	Not Applicable
Kauffman, Brian	EnerNOC, Inc.	Other Supplier
Keech, Adam	PJM Interconnection, LLC	Not Applicable
Kogut, George	New York Power Authority	Other Supplier
Langbein, Pete	PJM Interconnection, LLC	Not Applicable
Lieberman, Steve	American Municipal Power, Inc.	Electric Distributor
Lowe, Connie	Virginia Electric & Power Company	Transmission Owner
Lu, Chenchao	PJM Interconnection, LLC	Not Applicable
Mabry, David	McNees Wallace & Nurick LLC	Not Applicable
Manno, Dean	PJM Interconnection, LLC	Not Applicable
Marcino, Angelo	PJM Interconnection, LLC	Not Applicable
Marzewski, Skyler	Monitoring Analytics, LLC	Not Applicable
Midgley, Sharon	Exelon Business Services Company, LLC	Transmission Owner
Monzon, Stephanie	PJM Interconnection, LLC	Not Applicable
Noonan, Casey	PJM Interconnection, LLC	Not Applicable
Olaleye, Michael	PJM Interconnection, LLC	Not Applicable
Patel, Anita	PJM Interconnection, LLC	Not Applicable
Philips, Darlene	PJM Interconnection, LLC	Not Applicable
Poulos, Greg	CAPS	Not Applicable
Powers, Sean	Linde, LLC	End User Customer
Rohrbach, John	ACES Power	Not Applicable
Sasser, Jonathan	Customized Energy Solutions, Ltd.*	Not Applicable
Scarpignato, David	Calpine Energy Services, L.P	Generation Owner
Sheilds, Jeff	PJM Interconnection, LLC	Not Applicable
Smith, Christen	RTO Insider	Not Applicable
Snow, Jim	PJM Interconnection, LLC	Not Applicable
Strella, Lauren	PJM Interconnection, LLC	Not Applicable
Sturgeon, John	Duke Energy Carolinas, LLC	Other Supplier
Suh, Jung	Calpine Energy Services, L.P	Generation Owner
Sweeney, Rory	GT Power Group	Not Applicable
Tribulski, Jennifer	PJM Interconnection, LLC	Not Applicable
Tyler, Catherine	Monitoring Analytics, LLC	Not Applicable
Wadsworth, Joseph	Vitol Inc.	Other Supplier
Whitehead, Jeffrey	GT Power Group	Not Applicable

Webex Meeting Attendees

Names	Company Name	Sector
Ainspan, Malcolm	Energy Curtailment Specialists, Inc.	Other Supplier
Anders, David	PJM Interconnection, LLC	Not Applicable
Anderson, Jared	SPG Global	Not Applicable
Barker, Jason	Exelon Business Services Company, LLC	Transmission Owner
Bazar, Kevin	PJM Interconnection, LLC	Not Applicable
Beatty, Aron	The Pennsylvania Office of Consumer Advocate	Not Applicable
Bernstein, Matthew	PJM Interconnection, LLC	Not Applicable
Binder, Gerry	SESCO Enterprises LLC	Other Supplier
Brodbeck, John	EDP Renewables North America, LLC	Other Supplier
Brown, Rich	PJM Interconnection, LLC	Not Applicable
Bryson, Mike	PJM Interconnection, LLC	Not Applicable
Burdis, Tim	PJM Interconnection, LLC	Not Applicable
Canchi, Devendra	Monitoring Analytics, LLC	Not Applicable
Canter, David	Appalachian Power Company	Transmission Owner
Carrier, Ron	Direct Energy Business, LLC	Other Supplier
Catanach, Jim	FirstEnergy Solutions Corp.	Transmission Owner
Chandler, Kent	Public Utilities Commission of Kentucky	Not Applicable
Chang, Sean	Shell Energy North America (US), LP	Other Supplier
Chen, Hong	PJM Interconnection, LLC	Not Applicable
Chintapalli, Raj	BP Energy Company	Power Marketer
Cocco, Michael	Old Dominion Electric Cooperative	Electric Distributor
Conn, Jeff	Big Bend Trading	Other Supplier
Coyne, Suzanne	PJM Interconnection, LLC	Not Applicable
Crystle, Gil	UGI Development Company	Transmission Owner
Cummings, Bridgid	PJM Interconnection, LLC	Not Applicable
DeLosa, Joe	NJ Board of Public Utilities	Not Applicable
Denby, Brett	Northern Virginia Electric Cooperative	Electric Distributor
DePillo, Ray	PSEG Energy Resources and Trade LLC	Transmission Owner
Dolan, Jim	PJM Interconnection, LLC	Not Applicable
Domian, Christin	Mitsubishi Electric Power Products Inc.	Not Applicable
Duensing, Allison	Saracen Energy	Other Supplier
Dugan, Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Durinsky, Mike	FirstEnergy Solutions Corp.	Transmission Owner
Evrard, David	The Pennsylvania Office of Consumer Advocate	Not Applicable
Fabiano, Janell	PJM Interconnection, LLC	Not Applicable
Fan, Zhenyu	PJM Interconnection, LLC	Not Applicable
Fares, Robert	FERC	Not Applicable
Feller, John	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Garnett, Bryan	Duke Energy	Transmission Owner
Genuario, Gabrielle	PJM Interconnection, LLC	Not Applicable
Gilani, Rehan	ConEdison Energy, Inc.	Other Supplier
Gluck, Jim	PJM Interconnection, LLC	Not Applicable
Gorman, Kevin	Highlands Energy Group LLC (The)	Other Supplier
Grau, Patrick	Roscommon Analytics	Not Applicable
Guler, Teoman	Roscommon Analytics	Not Applicable
Hanser, Erik	Michigan Public Service Commission	Not Applicable
Harmon, Mike	Union Electric Company d/b/a Ameren Missouri	Other Supplier
Hastings, David	Market Interconnection LLC	Not Applicable

Hayik, Seth	Monitoring Analytics, LLC	Not Applicable
Heinle, Erik	D.C. Office of the People's Counsel	Not Applicable
Heisey, Bradley	Wolf Hills Energy, LLC	Generation Owner
Hohenshilt, Jennifer	Talen Energy Marketing, LLC	Generation Owner
Holdbrook, Ruth	Northern Virginia Electric Cooperative	Electric Distributor
Holland, Risa	PJM Interconnection, LLC	Not Applicable
Holter, Natasha	PJM Interconnection, LLC	Not Applicable
Horstmann, John	Dayton Power & Light Company (The)	Transmission Owner
Hurwich, Mark	Elliott Bay Energy Trading, LLC	Other Supplier
Janicki, Diane	Boston Energy Trading & Marketing, LLC	Generation Owner
Jardot, Gina	Nautilus Power, LLC	Generation Owner
Jens, Tom	Blackoak Capital	Other Supplier
Jett, William	Duke Energy Business Services LLC	Generation Owner
Josyula, Siva	Monitoring Analytics, LLC	Not Applicable
Kelly, Stephen	Brookfield Energy Marketing LP	Other Supplier
Kenney, Susan	PJM Interconnection, LLC	Not Applicable
Kilgallen, Kevin	Avangrid Renewables, LLC	Generation Owner
Laymon, Angelita	FirstEnergy Solutions Corp.	Transmission Owner
Lejcar, Jamie	Allegheny Electric Cooperative, Inc.	Electric Distributor
Liang-Nicol, Cecilia	Monongahela Power Company d/b/a Allegheny Power	Transmission Owner
Libbos, Robin	FirstEnergy Solutions Corp.	Transmission Owner
Logan, Sharon	The Federal Energy Regulatory Commission	Not Applicable
Long, Matthew	Appalachain Power Company	Transmission Owner
Lowe, Connie	Dominion Virginia Power	Not Applicable
Luna, Joel	Monitoring Analytics, LLC	Not Applicable
Mancuso, Melanie	FirstEnergy Solutions Corp.	Transmission Owner
Mariam, Yohannes	Office of the Peoples Counsel for the District of Columbia	End User Customer
Miller, John	Commonwealth Edison Company	Transmission Owner
Mooney, Jeff	FirstEnergy Solutions Corp.	Transmission Owner
O'Boyle, Brian	Consolidated Edison Solutions, Inc.	Transmission Owner
Ondayko, Brock	Appalachain Power Company	Transmission Owner
Pakela, Gregory	DTE Energy Trading, Inc.	Other Supplier
Park, Jinny	PJM Interconnection, LLC	Not Applicable
Patel, Keyurbhai	PJM Interconnection, LLC	Not Applicable
Peoples, John	Duquesne Light Company	Transmission Owner
Perera, Asanga	PJM Interconnection, LLC	Not Applicable
Price, Mark	DC Energy Mid-Atlantic, LLC	Other Supplier
Rajan , Abhijit	Dominion Resources	Not Applicable
Ramsey, James	Suffolk Fund LLC	Other Supplier
Redwine, Arlo	FERC	Not Applicable
Robson, Matt	SESCO Enterprises LLC	Other Supplier
Scheidecker, Paul	PJM Interconnection, LLC	Not Applicable
Schum, Alice	Illinois Municipal Electric Agency	Electric Distributor
Schuyler, Ken	PJM Interconnection, LLC	Not Applicable
Shah, Vijay	PJM Interconnection, LLC	Not Applicable
Shanker , Roy	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Singer, Chad	Fellon McCord	Not Applicable
Singh, Harliv	PJM Interconnection, LLC	Not Applicable
Solomon, Greg	NextEra Energy Marketing, LLC	Other Supplier
Squibb, Bill	Ohio Valley Electric Corporation	Generation Owner



Draft Minutes

Stone, Andy	PJM Interconnection, LLC	Not Applicable
Stotesbury, Christina	PJM Interconnection, LLC	Not Applicable
Thompson, Matthew	XO Energy MA	Other Supplier
Tibbetts, Maeve	Pierce Atwood	Not Applicable
Toomey, Megan	Talen Energy Marketing, LLC	Generation Owner
Vayda, Brian	Borough of Park Ridge, NJ	Electric Distributor
Ward, Michael	PJM Interconnection, LLC	Not Applicable
Wei, Jane	Monitoring Analytics, LLC	Not Applicable
Wilhite, Chad	FirstEnergy Solutions Corp.	Transmission Owner
Williams, Stanley	PJM Interconnection, LLC	Not Applicable
Wilmoth ES, Emily	Dominion Virginia Power	Not Applicable
Xenopoulous, Damon	N/A	Not Applicable
Xu,Xu	PJM Interconnection, LLC	Not Applicable
Yeaton, Andrea	PJM Interconnection, LLC	Not Applicable
Zadlo, Thomas	PJM Interconnection, LLC	Not Applicable
Zhang, Michael	PJM Interconnection, LLC	Not Applicable
Keshavamurthy, Bhavana (Secretary)	PJM Interconnection, LLC	Not Applicable