

Market Implementation Committee (MIC)

WebEx Only

February 10, 2021

9:00 a.m. – 4:00 p.m. EPT

Administration

Nick 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 January 12, 2021 Market Implementation Committee meeting with **0 objections and 0 abstentions**.

Endorsements/Approvals

2. RPM Capacity Transfer Rights

Kevin Zemanek, Buckeye Power reviewed the Problem Statement and Issue Charge addressing RPM Capacity Transfer Rights. Some stakeholders requested that additional clarity be added to the scope of the Issue Charge as it pertains to historic resources and Incremental Capacity Transfer Rights (ICTRs). The committee vote for approval of the Issue Charge was deferred. The committee will be asked to approve the Issue Charge at its next meeting.

3. Long-Term 5-Minute Dispatch & Pricing Work Plan

Aaron Baizman provided an update on the Long-Term timeline and reviewed the solution package from the Long-Term Five Minute Dispatch & Pricing Matrix that was worked in MIC Special Session meetings. The endorsement vote on the PJM/IMM proposal was removed from the agenda prior to the meeting. Additional discussion will continue on this issue during the March MIC meeting, including a second first read of the PJM/IMM proposal on Long-Term Design. The committee will be asked to endorse the PJM/IMM proposal at its next meeting.

[Issue Tracking: Five Minute Dispatch and Pricing](#)

First Readings

4. Manual 11 Revisions

Nikki Militello provided a first read of revisions to Manual 11: Energy & Ancillary Service Market Operations as part of the biennial cover-to-cover review. The committee will be asked to endorse the revisions at its next meeting.

5. Capital Recovery Factor for Avoidable Project Investment Cost Determinations

Jeff Bastian provided a second first read of the Problem Statement and Issue Charge addressing Capital Recovery Factor for Avoidable Project Investment Cost Determinations. The committee will be asked to approve the issue charge and endorse the solution as part of the Quick Fix process outlined in Section 8.6.1 of Manual 34 at its next meeting.

Working Items

6. **Market Suspension**

- a) Stefan Starkov reviewed PJM's proposed solution option updates on the Market Suspension matrix and provided education to support the proposed updates.
- b) Lisa Morelli facilitated a discussion on the Market Suspension matrix. The committee provided additional design components and solution options. This issue will continue to be worked at the next MIC meeting.

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

7. **Transparency in Performance Assessment Interval Settlements**

Susan Kenney reviewed draft Manual 18: PJM Capacity Market clarifying language associated with two of the areas identified as needing additional transparency in PAI Settlements, both related to resource modeling. Additional discussion on this issue will continue after the conclusion of the Capacity Market workshops.

[Issue Tracking: Transparency in Performance Assessment Interval \(PAI\) Settlements](#)

Additional Items

8. **PPL Dynamic Line Ratings**

Shaun Murphy provided an update on recent Dynamic Line Ratings discussions and PJM's plans to track and coordinate future stakeholder discussions.

9. **2021/22 ARR/FTR Update**

Emmy Messina reviewed the ARR/FTR modeling processes completed to date and upcoming deadlines for the 2021/2022 planning year.

10. **Incremental Auction Revenue Rights for RTEP Upgrades**

Xu Xu provided an update on Incremental Auction Revenue Rights for upgrades in the Regional Transmission Expansion Plan for the 2021/2022 planning year.

11. **Elgin Energy Center and Kincaid SPS/RAS Retirement**

Alan Engelmann, ComEd, reviewed the retirement of the Elgin Energy Center and Kincaid Special Protection Systems (SPS) and Remedial Action Schemes (RAS).

12. **Cost Development Subcommittee**

Nicole Scott provided an overview of the work plan for the recently re-chartered Cost Development Subcommittee.

13. **Fast Start Pricing Order Overview**

Vijay Shah and Rebecca Stadelmeyer provided details of PJM's Fast Start Pricing compliance filing for docket ER19-2722.

14. **Reactive Power in PJM**

Thomas DeVita provided an overview of Reactive Power compensation in PJM, its history and comparison to practices at other ISOs and RTOs.

Informational Section

Q4 2020 Net Energy Injections Quarterly Report

Materials are posted as informational only.

CP Unit Specific Parameter Update

Materials are posted as informational only.

Interregional Coordination Update

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](#).

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

March 10, 2021	9:00 a.m.	WebEx
April 7, 2021	9:00 a.m.	WebEx
May 13, 2021	9:00 a.m.	WebEx
June 9, 2021	9:00 a.m.	WebEx
July 14, 2021	9:00 a.m.	TBD
August 11, 2021	9:00 a.m.	TBD
September 9, 2021	9:00 a.m.	TBD
October 6, 2021	9:00 a.m.	TBD
November 3, 2021	9:00 a.m.	TBD
December 1, 2021	9:00 a.m.	TBD

Author: Nick DiSciullo

WebEx Meeting Attendees

Names	Company Name	Sector
Morelli, Lisa (Chair)	PJM Interconnection, LLC	Not Applicable
DiSciullo, Nicholas (Secretary)	PJM Interconnection, LLC	Not Applicable
Afelumo, Foluso	PJM Interconnection, LLC	Not Applicable
Anders, David	PJM Interconnection, LLC	Not Applicable
Anderson, Jared	S&P Global	Not Applicable
Baizman, Aaron	PJM Interconnection, LLC	Not Applicable
Barker, Jason	Exelon Business Services Company, LLC	Transmission Owner
Bastian, Jeff	PJM Interconnection, LLC	Not Applicable
Benckek, Jim	American Transmission Systems, Inc.	Transmission Owner
Bennett, Stephen	PJM Interconnection, LLC	Not Applicable
Bleiweis, Bruce	DC Energy LLC	Other Supplier
Bockhorn, Tim	Dayton Power & Light Company (The)	Transmission Owner
Bowen, Brandon	Indiana Utility Regulatory Commission	Not Applicable
Bowring, Joseph	Monitoring Analytics, LLC	Not Applicable
Boyle, Glen	PJM Interconnection, LLC	Not Applicable
Brodbeck, John	EDP Renewables North America, LLC	Generation Owner
Brozina, Mark	Tangibl LLC	Not Applicable
Bryson, Mike	PJM Interconnection, LLC	Not Applicable
Carmean, Gregory	OPSI	Not Applicable
Carroll, Rebecca	PJM Interconnection, LLC	Not Applicable
Cerchio, Gerard	Monitoring Analytics, LLC	Not Applicable
Chang, Sean	Shell Energy North America (US), LP	Other Supplier
Chen, Hong	PJM Interconnection, LLC	Not Applicable
Chen, Yang	PJM Interconnection, LLC	Not Applicable
Chmielewski, Brian	PJM Interconnection, LLC	Not Applicable
Christopher, Mahila	Public Utilities Commission of Ohio (The)	Not Applicable
Chu, George	PJM Interconnection, LLC	Not Applicable
Ciabattoni, Joseph	PJM Interconnection, LLC	Not Applicable
Cocco, Michael	Old Dominion Electric Cooperative	Electric Distributor
Coyne, Suzanne	PJM Interconnection, LLC	Not Applicable
Croop, Danielle	PJM Interconnection, LLC	Not Applicable
Crystle, Gil	UGI Development Company	Generation Owner
Dadourian, John	Monitoring Analytics, LLC	Not Applicable
D'Alessandris, Lou	FirstEnergy Solutions Corp.	Transmission Owner
D'Antonio, Phil	PJM Interconnection, LLC	Not Applicable
Davis, Elizabeth (Becky)	PJM Interconnection, LLC	Not Applicable
Davis, James (Jim)	Dominion Energy Marketing, Inc.	Generation Owner
Depillo, Raymond	PSEG Energy Resources and Trade LLC	Other Supplier
Desai, Deep	Exelon Generation Co., LLC	Generation Owner
DeVita, Thomas	PJM Interconnection, LLC	Not Applicable
Dillon, Matthew	UGI Development Company	Generation Owner
Domian, Christin	Duquesne Light Company	Transmission Owner
Downs, Jere	PJM Interconnection, LLC	Not Applicable
Duensing, Allison	Saracen Energy East LP	Other Supplier
Dugan, Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Dumitriu, Nicolae	PJM Interconnection, LLC	Not Applicable
Egan, Amanda	PJM Interconnection, LLC	Not Applicable
Ejebe, Gabriel	OATI	Not Applicable

Elkins, Rachel
 Ellis, Dean
 Engelmann, Alan
 Ericson, Christine
 Evergam, Scott
 Fabiano, Janell
 Fan, Zhenyu
 Fazio, Danielle
 Fernandez, Raymond
 Filomena, Guy
 Foladare, Kenneth
 Ford, Adrien
 Frogg, Darrell
 Fuess, Christian
 Gahimer, Michael
 Garnett, Bryan
 Gates, Terry
 Gebolys, Debbie
 Gilani, Rehan
 Gorman, Kevin
 Graham, Sophie
 Greening, Michele
 Greiner, Gary
 Hanser, Erik
 Harris, Makenna
 Hastings, David
 Hauske, Thomas
 Heinle, Frederick
 Heisey, Bradley
 Hickey, Mike
 Hoatson, Tom
 Hohenshilt, Jennifer
 Holdbrook, Ruth
 Horger, Tim
 Horning, Lynn Marie
 Hsia, Eric
 Hull, Gerit
 Hurwich, Mark
 Hyzinski, Tom
 Janicki, Diane
 Jardot, Gina
 Jens, Thomas
 Jett, William
 Jha, Monica
 Johnson, Carl
 Johnston, David
 Josyula, Siva
 Kauffman, Brian
 Keenan, Matthew
 Kelly, Stephen

First Energy Company
 Dynegy Marketing & Trade, LLC
 Commonwealth Edison Company
 Illinois Commerce Commission
 The Federal Energy Regulatory Commission
 PJM Interconnection, LLC
 PJM Interconnection, LLC
 Noble Americas Gas & Power Corp.
 PJM Interconnection, LLC
 Customized Energy Solutions, Ltd.
 Tangibl
 Old Dominion Electric Cooperative
 PJM Interconnection, LLC
 PBF Power Marketing LLC
 IN Office of Utility Consumer Counselor
 Duke Energy Ohio, Inc.
 Appalachian Power Company
 Public Utilities Commission of Ohio (The)
 ConEdison Energy, Inc.
 Highlands Energy Group LLC (The)
 Adapt2
 PJM Interconnection, LLC
 PSEG Energy Resources and Trade LLC
 Michigan Public Service Commission
 Adapt2
 Market Interconnection Consulting Services (MICS)
 PJM Interconnection, LLC
 Office of the People's Counsel
 Wolf Hills Energy, LLC
 PJM Interconnection, LLC
 Riverside Generating, LLC
 Talen Energy Marketing, LLC
 Northern Virginia Electric Cooperative
 PJM Interconnection, LLC
 Customized Energy Solutions, Ltd.
 PJM Interconnection, LLC
 Jennings, Strouss & Salmon, P.L.C.
 Elliott Bay Energy Trading, LLC
 GT Power Group
 Boston Energy Trading & Marketing, LLC
 Essential Power Rock Springs, LLC
 Black Oak Energy, LLC
 Duke Energy Business Services LLC
 PCI
 Customized Energy Solutions, Ltd.
 Indiana Utility Regulatory Commission
 Monitoring Analytics, LLC
 Enel X North America, Inc.
 Jpower USA
 Brookfield Energy Marketing LP

Transmission Owner
 Generation Owner
 Transmission Owner
 Not Applicable
 Not Applicable
 Not Applicable
 Not Applicable
 Not Applicable
 Not Applicable
 Not Applicable
 Not Applicable
 Electric Distributor
 Not Applicable
 Generation Owner
 End-Use Customer
 Transmission Owner
 Transmission Owner
 Not Applicable
 Other Supplier
 Other Supplier
 Not Applicable
 Not Applicable
 Other Supplier
 Not Applicable
 Not Applicable
 Not Applicable
 Not Applicable
 End-Use Customer
 Generation Owner
 Not Applicable
 Generation Owner
 Generation Owner
 Electric Distributor
 Not Applicable
 Not Applicable
 Not Applicable
 Not Applicable
 Other Supplier
 Not Applicable
 Other Supplier
 Generation Owner
 Other Supplier
 Transmission Owner
 Not Applicable
 Not Applicable
 Not Applicable
 Not Applicable
 Other Supplier
 Not Applicable
 Other Supplier

Kenney, Susan	PJM Interconnection, LLC	Not Applicable
Kilgallen, Kevin	Avangrid Renewables LLC	Generation Owner
Kogut, George	New York Power Authority	Other Supplier
Konowal, Richard (Rich)	PJM Interconnection, LLC	Not Applicable
Kuo, David	DC Energy LLC	Other Supplier
Langbein, Pete	PJM Interconnection, LLC	Not Applicable
Leasure, Jill	Keystone Projects	Not Applicable
Lejcar, Jamie	Allegheny Electric Cooperative, Inc.	Electric Distributor
Libbos, Robin	FirstEnergy Solutions Corp.	Transmission Owner
Long, Glenn	PJM Interconnection, LLC	Not Applicable
Lu, Chenchao	PJM Interconnection, LLC	Not Applicable
Mabry, David	McNees Wallace & Nurick LLC	Not Applicable
Marcino, Angelo	PJM Interconnection, LLC	Not Applicable
Mariam, Yohannes	Office of the Peoples Counsel for the District of Columbia	End-Use Customer
Markiewicz, Cindy	FirstEnergy Solutions Corp.	Transmission Owner
Matuszak, Alex	UGI Energy Services, LLC	Other Supplier
McLavery, Megan	PJM Interconnection, LLC	Not Applicable
Messina, Emmy	PJM Interconnection, LLC	Not Applicable
Midgley, Sharon	Exelon Business Services Company, LLC	Transmission Owner
Militello, Nicole	PJM Interconnection, LLC	Not Applicable
Monzon, Stephanie	PJM Interconnection, LLC	Not Applicable
Murphy, Shaun	PJM Interconnection, LLC	Not Applicable
Olaleye, Michael	PJM Interconnection, LLC	Not Applicable
Ondayko, Brock	Appalachain Power Company	Transmission Owner
Pakela, Greg	DTE Energy Trading, Inc.	Other Supplier
Pasupatham, Ram	Exelon Generation Co., LLC	Generation Owner
Patel, Keyur	PJM Interconnection, LLC	Not Applicable
Pelletier, Eveline	Hydro-Quebec	Not Applicable
Perera, Asanga	PJM Interconnection, LLC	Not Applicable
Phillips, Darlene	PJM Interconnection, LLC	Not Applicable
Phillips, Jennifer	C.P. Crane LLC	Generation Owner
Pilong, Melissa	PJM Interconnection, LLC	Not Applicable
Pizzutelli, Ashley	Monongahela Power Company d/b/a Allegheny Power	Transmission Owner
Poulos, Greg	CAPS	Not Applicable
Pratt, Nick	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Price, Ruth	Division of the Public Advocate of the State of Delaware	End-Use Customer
Purdie, Michael	Dominion Virginia Power	Not Applicable
Rainey, John	Northern Virginia Electric Cooperative	Electric Distributor
Ramsey, James	Suffolk Fund LLC	Not Applicable
Robinson, Becky	Vista Energy Marketing, L.P.	Other Supplier
Robinson, Paul	The Federal Energy Regulatory Commission	Not Applicable
Rodriguez, Tomas	OPSI	Not Applicable
Rohrbach, John	Southern Maryland Electric Cooperative	Electric Distributor
Rooney, Alexa	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Sasser, Jonathan	Customized Energy Solutions, Ltd.*	Not Applicable
Scarpignato, David	Calpine Energy Services, L.P.	Generation Owner
Scheirer, Alexandra	PJM Interconnection, LLC	Not Applicable
Schisler, Ken	Enel X North America, Inc.	Other Supplier
Schmatz, Peter	PSEG Energy Resources and Trade LLC	Other Supplier
Schuyler, Ken	PJM Interconnection, LLC	Not Applicable

Scott, Nicole	PJM Interconnection, LLC	Not Applicable
Seirig, Bahaa	Con Edison Co. of NY	Not Applicable
Shah, Vijay	PJM Interconnection, LLC	Not Applicable
Shanker, Roy	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Skumanich, William (Bill)	RTR Energy Solutions	Not Applicable
Smith, Kara	Buckeye Power, Inc.	Electric Distributor
Sorrels, James	AEP	Transmission Owner
Sotkiewicz, Paul	E-Cubed Policy Associates	Not Applicable
Squibb, Bill	Ohio Valley Electric Corp	Transmission Owner
Stadlmeyer, Rebecca	PJM Interconnection, LLC	Not Applicable
Starkov, Stefan	PJM Interconnection, LLC	Not Applicable
Stefanowicz, Vincent	PJM Interconnection, LLC	Not Applicable
Stern, Alexander (Alex)	Public Service Electric & Gas Company	Transmission Owner
Stone, Andy	PJM Interconnection, LLC	Not Applicable
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
Sweeney, Rory	GT Power Group	Not Applicable
Tangirala, Subha	ABB	Not Applicable
Tibbetts, Maeve	Pierce Atwood	Not Applicable
Tribulski, Jennifer	PJM Interconnection, LLC	Not Applicable
Tunmer, Bea	FirstEnergy Solutions Corp.	Transmission Owner
Tyler, Catherine	Monitoring Analytics	Not Applicable
Warshel, Kim	PJM Interconnection, LLC	Not Applicable
Whitehead, Jeffrey	GT Power Group	Not Applicable
Widom, Stuart	PJM Interconnection, LLC	Not Applicable
Wisersky, Megan	Madison Gas & Electric Company	Other Supplier
Xu, Xu	PJM Interconnection, LLC	Not Applicable
Yoder, Michael	RTO Insider	Not Applicable
Yoo, Kyungjin	PJM Interconnection, LLC	Not Applicable
Zemanek, Kevin	Buckeye Power, Inc.	Electric Distributor
Zhang, Michael (Mike)	PJM Interconnection, LLC	Not Applicable
Zhao, Tong	PJM Interconnection, LLC	Not Applicable