Markets & Reliability Committee

Webex Only

December 15, 2021

9:00 a.m. – ~~12:00~~ 12:45 p.m. EPT

***\*Operator assisted phone lines will be opened 30 minutes prior to the start of the meeting. Due to the high volume of remote participation, stakeholders are asked to connect early to allow additional time for operator queue processing.***

Administration (9:00-9:05)

Welcome, announcements and Anti-trust, Code of Conduct, and Public Meetings/Media Participation – Stu Bresler and Dave Anders

Consent Agenda (9:05-9:10)

1. **Approve** minutes of the November 17, 2021 meeting of the Markets and Reliability Committee (MRC).
2. Endorse proposed revisions to Manual 06: Financial Transmission Rights conforming to the AFMTF PJM/Joint Stakeholder package endorsed at the October MRC.

[Issue Tracking: ARR/FTR Market Review](https://www.pjm.com/committees-and-groups/issue-tracking/issue-tracking-details.aspx?Issue=83fce36d-af05-4ed7-8231-ee8f41c74e0c)

1. Endorse proposed revisions to Manual 10: Pre-Scheduling Operations resulting from its periodic review.
2. Endorse proposed Manual 14B revisions resulting from its biennial review.
3. Endorse proposed revisions to Manual 14D: Generator Operational Requirements resulting from its periodic review.
4. **Endorse** proposed revisions to Tariff Attachment DD as endorsed by the Governing Document Enhancement and Clarification Subcommittee (GDECS).

Endorsements (9:10-10:10)

1. Undefined Regulation Mileage Ratio Calculation (9:10-9:30)
2. Adam Keech will provide an update regarding the Regulation Mileage Ratio Calculation and potential mathematical issue.
3. Danielle Croop will review a Problem Statement and Issue Charge addressing broader Regulation Market redesign. **The committee will be asked to approve the proposed Issue Charge.**

[Issue Tracking: Undefined Regulation Mileage Ratio Calculation](https://www.pjm.com/committees-and-groups/issue-tracking/issue-tracking-details.aspx?Issue=8f567a45-cd61-4d1c-97dd-cc2d3bd772ee)

1. Solar-Battery Hybrid Resources (9:30-9:50)

Andrew Levitt and Thomas DeVita will review a proposed solution package to address various aspects of market participation by solar-battery hybrid resources. **The committee will be asked to endorse the proposed solution and corresponding Tariff and Operating Agreement (OA) revisions.**

[Issue Tracking: Solar-Battery Hybrid Resources](https://www.pjm.com/committees-and-groups/issue-tracking/issue-tracking-details.aspx?Issue=3423b18c-59c2-49dd-84c5-af42b1ba0256)

1. Synchronous Reserve Deployment Stakeholder Initiative (9:50-10:10)

Ilyana Dropkin will review a proposed solution package addressing synchronous reserve deployment. **The committee will be asked to endorse the proposed solution and corresponding Tariff and OA revisions.**

[Issue Tracking: Synchronized Reserve Event Actions and Expectations](https://www.pjm.com/committees-and-groups/issue-tracking/issue-tracking-details.aspx?Issue=88b492a5-1547-4558-a242-456d99b87a37)

First Readings (10:10-12:00)

1. Fuel Cost Policy Standards and Schedule 2 Penalties (10:10-10:35)

Melissa Pilong will review the PJM/IMM Package elaborating upon and addressing clarifications to Fuel Cost Policy standards and Schedule 2 Penalty revisions. The committee will be asked to endorse the proposed solution and corresponding Manual and OA revisions at its next meeting.

[Issue Tracking: Fuel Cost Policy](https://www.pjm.com/committees-and-groups/issue-tracking/issue-tracking-details.aspx?Issue=507b0c86-d058-4d4b-8f8f-79008c49126b)

1. Regulation for Virtual Combined Cycles (10:35-10:55)

Michael Olaleye will review the proposed solution addressing Regulation for Virtual Combined Cycles. The committee will be asked to endorse the proposal and corresponding Manual revisions at its next meeting.

[Issue Tracking: Regulation for Virtual Combined Cycles](https://www.pjm.com/committees-and-groups/issue-tracking/issue-tracking-details.aspx?Issue=4156560d-cfb4-45e6-aacd-33ec5c9447ed)

1. Resource Adequacy Senior Task Force (RASTF) Issue Charge (10:55-11:20)
2. Alex Scheirer and Pat Bruno will review a proposed Issue Charge as endorsed by the RASTF. The committee will be asked to approve the proposed Issue Charge at its next meeting.
3. Bruce Campbell, C Power, and Brian Kauffman, Enel X North America, will discuss perspectives regarding DR as a supply resource.
4. Energy Price Formation Senior Task Force (EPFSTF) Charter (11:20-11:40)

Susan Kenney will review proposed Charter revisions as endorsed by the EPFSTF. The committee will be asked to approve the proposed Charter revisions at its next meeting.

[Issue Tracking: Operating Reserve Demand Curve & Transmission Constraint Penalty Factors](https://www.pjm.com/committees-and-groups/issue-tracking/issue-tracking-details.aspx?Issue=783a272c-b870-4e19-a44f-b5c92e806512)

1. Manuals (11:40-12:00)
   1. Vijay Shah will review conforming revisions to Manual 11: Energy and Ancillary Services Market Operations addressing enhancements to the Dead Bus Replacement logic for assigning prices to de-energized pricing nodes. The committee will be asked to endorse the proposed revisions at its next meeting.
   2. Liem Hoang will review proposed revisions to Manual 38: Operations Planning resulting from its periodic review. The Committee will be asked to endorse the proposed revisions at its next meeting.

Informational Reports (12:00-12:45)

1. PJM Renewable Integration Study (12:00-12:45)

Emanuel Bernabeu will discuss PJM’s Renewable Integration Study (RIS) report.

Future Agenda Items (~~12:00~~ 12:45)

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| **Future Meeting Dates and Materials** | | | | **Materials Due  to Secretary** | **Materials Published** |
| Date | Time | Location | |  |  |
| January 26, 2022 | 9:00 a.m. | | TBD | January 14, 2022 | January 19, 2022 |
| February 24, 2022 | 9:00 a.m. | | TBD | February 14, 2022 | February 17, 2022 |
| March 23, 2022 | 9:00 a.m. | | TBD | March 11, 2022 | March 16, 2022 |
| April 27, 2022 | 9:00 a.m. | | TBD | April 15, 2022 | April 20, 2022 |
| May 25, 2022 | 9:00 a.m. | | TBD | May 13, 2022 | May 18, 2022 |
| June 29, 2022 | 9:00 a.m. | | TBD | June 17, 2022 | June 22, 2022 |

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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 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.

Public Meetings/Media Participation:

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