

As of December 8, 2021

Market Implementation Committee (MIC) WebEx Only December 1, 2021 9:00 a.m. – 12:25 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 November 3, 2021 Market Implementation Committee meeting with **0 objections and 0 abstentions**.

Nicholas DiSciullo reviewed the 2022 MIC Work Plan.

Nicholas DiSciullo provided an update on the Start-Up Cost Offer Development issue. Alternative solutions than those covered during the November MIC meeting will be reviewed at the December 2, 2021 Cost Development Subcommittee meeting and brought back to a future MIC meeting.

Endorsements/Approvals

2. Fuel Cost Policy Standards and Schedule 2 Penalties

Melissa Pilong reviewed the PJM/IMM proposal, elaborating upon and addressing clarifications to Fuel Cost Policy standards and Schedule 2 Penalty language developed through the Cost Development Subcommittee.

The committee endorsed the PJM/IMM proposal with 221 (95%) in favor, 11 (5%) opposed, and 14 abstentions.

A second vote showed stakeholders preferred the PJM/IMM proposal over status quo with 192 (95%) in favor, 11 (5%) opposed, and 5 abstentions. Issue Tracking: Fuel Cost Policy

3. Manual 6 Revisions

Emmy Messina reviewed conforming changes to Manual 6: Financial Transmission Rights resulting from the endorsement of the AFMTF PJM/Joint Stakeholder package at the October MRC. The committee endorsed the Manual 6 revisions by acclamation with 0 objections and 0 abstentions.

Issue Tracking: ARR/FTR Market Review

4. Regulation for Virtual Combined Cycles

Michael Olaleye reviewed Package A addressing Regulation for Virtual Combined Cycles. The committee endorsed Package A by acclamation with 0 objections and 0 abstentions. A second acclamation vote showed stakeholders support the proposal over status quo with 0 objections and 0 abstentions.

Issue Tracking: Regulation for Virtual Combined Cycles



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First Readings

5. Pseudo Modeled Combined Cycle Minimum Run Time Guidance

Tom Hauske provided education and a first read of a Problem Statement and Issue Charge addressing Pseudo Modeled Combined Cycle Minimum Run Time Guidance. The committee will be asked to approve the issue charge as part of the "CBIR Lite" process outlined in Section 8.6.2 of Manual 34 at its next meeting. If the issue charge is approved, the committee will begin interest identification and developing design components and solution options as part of the CBIR process at its next meeting.

6. De-Energized Bus Replacement

Vijay Shah provided a first read of conforming 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 will be asked to endorse the Manual revisions at its next meeting.

13. Capacity Offer Opportunities for Generation with Co-Located Load

Jason Barker, Exelon, provided a first read of a new Problem Statement and Issue Charge addressing the treatment of generation with co-located load. The committee will be asked to approve the issue charge at its next meeting.

Working Items

7. Market Suspension

Stefan Starkov, PJM, and David Scarpignato, Calpine, provided an update on the additional considerations related to the Market Suspension issue.

Lisa Morelli facilitated a discussion to review and identify additional interests, design components and solution options on the Market Suspension matrix as part of the Consensus Based Issue Resolution process, and updates were provided during the meeting. A Post-Meeting version of the matrix has been posted to the meeting materials. The committee will continue the CBIR process by beginning to develop straw man proposals at its next meeting. Issue Tracking: Rules Related to Market Suspension

Additional Items

8. Offer Verification

Vijay Shah provided an informational update on an upcoming Offer Verification education session to be held on January 12, 2022.

- Fuel Requirements for Black Start Resources Update Dan Bennett provided a status update on FRBSR hiatus work. Issue Tracking: Rules Related to Market Suspension
- 10. Rules for Siting New Load behind POI of Existing Generation



Jeff Bastian provided an informational update on a Frequently Asked Questions document on PJM rules regarding the siting of new host load directly behind the meter of an existing generation resource.

- 11. **Cost Development Subcommittee Update** Nicole Scott provided an informational update on the work to be performed at the Cost Development Subcommittee.
- 12. **DER and Inverter-Based Resources Subcommittee Update** Scott Baker provided an informational update on the FERC Order 2222 compliance.

Informational Section

Unit Specific Parameter Adjustment Process Materials are posted as informational only.

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 <u>RPCTF website</u>.

Cost Development Subcommittee (CDS)

Meeting materials are posted to the <u>CDS website</u>.

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 2 to Secretary	Materials Published
Date	Time	Location	5 p.m.	4 p.m.
February 9	9 a.m.	WebEx	January 28	February 2



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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

Lisa Morelli (Chair) DiSciullo, Nicholas (Secretary) Aguilar, Fabiano Silveira Anders, David Anderson, Jared Baizman, Aaron Baker, Scott Barker, Jason Bastian. Jeff Benchek, Jim Bennett, Daniel (Dan) Borgatti, Michael Bowring, Joseph Boyle, Glen Bresler. Stu Brodbeck, John Bruno, Patrick Callaghan, Chris Canter, David Cao, Roger Carmean, Gregory Carrier, Ronald (Ron) Caven, Augustine Chang, Sean Chen, Hong Chmielewski, Brian Christopher, Mahila Chu, George Cocco, Michael Conklin, Tyler Coyle, Billy Coyne, Suzanne Croop, Danielle D'Alessandris, Lou Davis, James (Jim) Davis, Mike DeVita, Thomas Dillon, Matthew DiNicola, Laura

Company Name

PJM Interconnection, LLC PJM Interconnection, LLC Strom Power, LLC PJM Interconnection, LLC S&P Global Inc. PJM Interconnection, LLC PJM Interconnection, LLC Exelon Business Services Company, LLC PJM Interconnection, LLC American Transmission Systems, Inc. PJM Interconnection, LLC Gabel and Associates Monitoring Analytics, LLC PJM Interconnection, LLC PJM Interconnection. LLC EDP Renewables North America, LLC PJM Interconnection, LLC PJM Interconnection, LLC AEP Appalachian Transmission Company, Inc. PJM Interconnection, LLC OPSI **Big Lake Consulting** PJM Interconnection, LLC Shell Energy North America (US), L.P. PJM Interconnection, LLC PJM Interconnection, LLC Public Utilities Commission of Ohio (The) PJM Interconnection, LLC Old Dominion Electric Cooperative Public Utilities Commission of Ohio **Dominion Virginia Power** PJM Interconnection, LLC PJM Interconnection, LLC FirstEnergy Corporation Dominion Energy Generation Marketing, Inc. Northern Virginia Electric Cooperative PJM Interconnection, LLC UGI Development Company FirstEnergy Corporation

Sector Not Applicable Not Applicable Other Supplier None None None None Transmission Owner None Transmission Owner None None None None None Generation Owner None None Transmission Owner None None None None Other Supplier None None None None **Electric Distributor** None None None None Transmission Owner Generation Owner Electric Distributor None Generation Owner Transmission Owner



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Domian, Christin Dorko, Keri Downs, Jere Duensing, Allison Dugan, Chuck Esterly, Theresa Fan, Zhenyu Farhat. Michelle Fazio. Danielle Fereshetian, Damon Fernandez, Ray Filomena, Guy Fink, Regan Fishback. Luke Fitzpatrick, Brian Flagler, Grant Foladare, Kenneth (Ken) Ford, Adrien Frogg, Darrell Fuess, Christian Gates, Terry Gilani, Rehan Gorman, Brad Graham, Sophie Greening, Michele Greiner, Gary Hagaman, Derek Hanser. Erik Hastings, David Hauske, Thomas Heinle, Frederick (Erik) Heisey, Bradley Heitmeyer, Chad Herel. Suzanne Hicks, Colleen Hoatson, Thomas (Tom) Hohenshilt, Jennifer Horger, Tim Horning, Lynn Marie Horstmann. John Hsia, Eric Hull, Gerit Hurwich, Mark Hussing, Greg Hyzinski, Tom Janicki. Diane Jardot, Gina Jett, William (Bill) Johnson, Carl Josyula, Siva

Duquesne Light Company Monitoring Analytics, LLC PJM Interconnection, LLC Saracen Energy East LP East Kentucky Power Cooperative, Inc. PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection. LLC Noble Americas Gas & Power Corp. PJM Interconnection, LLC PJM Interconnection, LLC Customized Energy Solutions, Ltd.* Pine Gate Mid-Atlantic, LLC Affirmed Energy LLC PJM Interconnection, LLC 0 Geenex Solar LLC Old Dominion Electric Cooperative PJM Interconnection, LLC PBF Power Marketing, LLC AEP Appalachian Transmission Company, Inc. ConEdison Energy, Inc. American Transmission Systems, Inc. Adapt2 Solutions, Inc. PJM Interconnection, LLC **PSEG Energy Resources & Trade LLC GT** Power Group Michigan Public Service Commission Market Interconnection Consulting Services (MICS) PJM Interconnection, LLC Office of the Peoples Counsel for the District of Columbia Wolf Hills Energy, LLC AEP Appalachian Transmission Company, Inc. PJM Interconnection. LLC PJM Interconnection, LLC Riverside Generating, LLC Talen Energy Marketing, LLC PJM Interconnection, LLC Customized Energy Solutions, Ltd.* Dayton Power & Light Company (The) PJM Interconnection, LLC American Municipal Power, Inc. Elliott Bay Energy Trading, LLC None GT Power Group Boston Energy Trading & Marketing, LLC Essential Power Rock Springs, LLC Duke Energy Business Services LLC Customized Energy Solutions, Ltd.* Monitoring Analytics, LLC

Transmission Owner None None Other Supplier Transmission Owner None None None Other Supplier None None None Other Supplier Other Supplier None 0 Other Supplier **Electric Distributor** None Generation Owner Transmission Owner Other Supplier Transmission Owner None None Other Supplier None None None None End-Use Customer Generation Owner Transmission Owner None None Generation Owner Generation Owner None None Transmission Owner None **Electric Distributor** Other Supplier None None Other Supplier Generation Owner Transmission Owner None None



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Kalle, Ibrahima Keech. Adam Keenan, Matthew Kelly, Stephen Kenney, Susan Khan, Bakhtawar Kilgallen, Kevin Kogut, George Lai, Erin Laios, Takis Langbein, Pete LaRocque, Matthew Lejcar, Jamie Levitt. Andrew Libbos. Robin Litchfield, Matthew Lu, Chenchao Mabry, David Malcolm, Kimberly Mariam, Yohannes Markiewicz, Cindy Matuszak, Alex McArdle, Brian McCormick, Katharine McLaverty, Megan McNeil, Justin Mendelsohn, Mark Messina. Emmv Midgley, Sharon Militello, Nicole Miller, John Nix, Emma O'Hara, Bernard (Bernie) Olaleye, Michael Ondayko, Brock Pakela, Greg Patel, Keyur Pelletier, Eveline Peoples, John Perera, Asanga Phillips, Darlene Phillips, Jennifer Pilong, Christopher Pilong, Melissa Pratt, Nicholas (Nick) Procuniar. Jason Rahimi, Farrokh Robinson, Becky Rodriguez, Tomas Rohrbach, John

Tibiri Energies PJM Interconnection. LLC Jpower USA Brookfield Energy Marketing LP PJM Interconnection, LLC Gabel and Associates Avangrid Renewables LLC New York Power Authority PJM Interconnection, LLC AEP Appalachian Transmission Company, Inc. PJM Interconnection, LLC PJM Interconnection, LLC Allegheny Electric Cooperative, Inc. PJM Interconnection. LLC FirstEnergy Corporation CPV Shore, LLC PJM Interconnection, LLC McNees Wallace & Nurick LLC FirstEnergy Corporation Office of the Peoples Counsel for the District of Columbia FirstEnergy Corporation UGI Energy Services, LLC NextEra Energy Power Marketing, LLC Illinois Commerce Commission PJM Interconnection, LLC Office of the Attorney General, Kentucky Noble Americas Gas & Power Corp. PJM Interconnection. LLC Exelon Business Services Company, LLC PJM Interconnection, LLC Commonwealth Edison Company Gable and Associates Sargent & Lundy PJM Interconnection. LLC AEP Appalachian Transmission Company, Inc. DTE Energy Trading, Inc. PJM Interconnection, LLC Hydro-Quebec **Duquesne Light Company** PJM Interconnection. LLC PJM Interconnection, LLC C.P. Crane LLC PJM Interconnection, LLC PJM Interconnection, LLC PPL Electric Utilities Corp. dba PPL Utilities Davton Power & Light Company (The) Open Access Technology International, Inc. Vista Energy Marketing, L.P. OPSI Southern Maryland Electric Cooperative, Inc.

None None None Other Supplier None None Generation Owner Other Supplier None Transmission Owner None None Electric Distributor None Transmission Owner Generation Owner None None Transmission Owner End-Use Customer Transmission Owner Other Supplier Other Supplier None None End-Use Customer Other Supplier None Transmission Owner None Transmission Owner None None None Transmission Owner Other Supplier None None Transmission Owner None None Generation Owner None None Transmission Owner Transmission Owner None Other Supplier None Electric Distributor



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Rooney, Alexa Ruck. Andrew Sasser, Jonathan Scarpignato, David (Scarp) Schreim, Morris Schuyler, Ken Schweizer, David Scott. Nicole Seirig, Bahaa Shah, Vijay Shaikh, Mohammed Shanker, Roy Sorrels, James Sotkiewicz. Paul Souder. Michelle Squibb, Bill Stadelmeyer, Rebecca Starkov, Stefan Stefanowicz, Vincent Stone, Andy Stuchell, Jeff Sturgeon, John Suh, Jung Svenson, Heather Sweeney, Rory Tibbetts, Maeve Wadsworth, Joseph Ward. Michael Warner-Freeman, Jennifer Warshel, Kim Wehnes, Kathleen Whitehead, Jeffrey

PPL Electric Utilities Corp. dba PPL Utilities PSEG Energy Resources & Trade LLC Customized Energy Solutions, Ltd.* Calpine Energy Services, L.P. Maryland Public Service Commission PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection. LLC Con Edison Co. of NY PJM Interconnection, LLC Plus Power, LLC H.Q. Energy Services (U.S.), Inc. AEP Appalachian Transmission Company, Inc. E-Cubed Policy Associates PJM Interconnection, LLC Ohio Valley Electric Corp PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC FirstEnergy Corporation Duke Energy Carolinas, LLC Calpine Energy Services, L.P. Public Service Electric & Gas Company GT Power Group K & L Gates Vitol Inc. PJM Interconnection. LLC PJM Interconnection, LLC PJM Interconnection, LLC Maryland Public Service Commission GT Power Group PJM Interconnection, LLC **RTO** Insider PJM Interconnection, LLC PJM Interconnection, LLC

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Transmission Owner Other Supplier None Generation Owner None None None None None None None Other Supplier Transmission Owner None None Transmission Owner None None None None Transmission Owner Other Supplier **Generation Owner** Transmission Owner None None Other Supplier None None None None None None None None

None

Widom, Stuart

Yoder, Michael

Zhao, Tong

Yovanovich, Laura