

Market Implementation Committee
WebEx / Conference & Training Center
May 10, 2023
9:00 a.m. – 2:30 p.m. EPT

Administration (9:00 – 9:05)

Amanda Martin reviewed the Antitrust, Code of Conduct, Public Meetings/Media Participation and the WebEx Participant Identification Requirements.

The Committee approved the draft minutes from the April 12, 2023 Market Implementation Committee by acclamation with 0 objections and 0 abstentions.

Endorsements/Approvals (9:05 – 10:50)

2. Base Residual Auction Smooth Supply Curves (9:05 – 9:25)
Skyler Marzewski reviewed a Problem Statement, Issue Charge, and solution concept related to calculating the smooth supply curves for the Base Residual Auctions.
The committee approved the Issue Charge and endorsed the solution concept by acclamation with 0 objections and 0 abstentions.
3. Manual 11 Transmission Constraint Penalty Factor (9:25 – 9:40)
Vijay Shah reviewed conforming revisions to Manual 11: Energy & Ancillary Services Market Operations for the approved Transmission Constraint Penalty Factor solution package.
The committee endorsed the revisions by acclamation with 0 objections and 0 abstentions.
[Issue Tracking: Operating Reserve Demand Curve \(ORDC\) & Transmission Constraint Penalty Factors](#)
4. Hybrid Resources (9:40 – 10:00)
Zhenyu Fan reviewed conforming revisions to Manual 11: Energy & Ancillary Services, Manual 27: Open Access Transmission Tariff Accounting and Manual 28: Operating Agreement Accounting Market Operations for the approved Hybrid Resources Phase I solution package.
The endorsed the revisions at this meeting by acclamation with 0 objections and 0 abstentions.
[Issue Tracking: Solar-Battery Hybrid Resources](#)
5. Manual 15 Heat Input Guidelines and Opportunity Cost Calculator (10:00 – 10:15)
Glen Boyle reviewed proposed revisions to Manual 15: Cost Development Guidelines addressing heat input guidelines and IMM Opportunity Cost Calculator from the Cost Development Subcommittee.
The committee endorsed the revisions at this meeting by acclamation with 0 objections and 0 abstentions.
[Issue Tracking: Opportunity Cost Calculator 2023](#)
[Issue Tracking: Combined Cycles and Specialized Boilers Heat Input Guidelines](#)

First Reads (10:15 – 11:15)

6. Capacity Offer Opportunities for Generation with Co-located Load (10:15 – 11:15)

- a. Sharon Midgley, Exelon, reviewed updates made to Exelon's package.
- b. Tim Horger presented a summary and comparison of all packages.

Packages will return for an additional first read at the June meeting. Stakeholders are encouraged to send packages in advance of the June MIC meeting.

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

0. Reactive Power Compensation Task Force (11:15 – 11:45)

- a. Danielle Croop provided an update on the work being done at the RPCTF.
- b. Greg Poulos, CAPS, presented a proposed amendment to the Reactive Supply and Voltage Control Compensation Issue Charge.

The committee will be asked to endorse this amendment at its next meeting.

[Issue Tracking: Reactive Supply and Voltage Control Compensation](#)

Lunch (11:45 – 12:30)

Working Items (12:30 – 1:30)

7. Local Considerations in Net Cost of New Entry (CONE) (12:30 – 1:30)

Foluso Afelumo lead a discussion to solicit solution options and packages as part of the Consensus-Based Issue Resolution Process (CBIR).

Stakeholders are encouraged to submit packages in advance of the June MIC meeting.

[Issue Tracking: Local Considerations in Net Cost of New Entry](#)

Additional Items (1:30 – 2:15)

8. Cost Development Subcommittee Update (1:30– 1:35)

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

9. Reserve Capability Calculation with Segmented Ramp Rates (1:35 – 2:05)

Joel Luna, IMM, presented an overview of the calculation of the reserve capability of units that use segmented ramp rate curves and recommendations.

10. Distributed Resources Subcommittee Update (2:05 – 2:15)

Ilyana Dropkin provided an informational update on the work to be performed at the Distributed Resources Subcommittee.

Informational Section

Reserve Price Formation Update

Materials are posted as informational only.

Interregional Coordination Update

Materials are posted as informational only.

Stability Limits in Markets and Operations
Materials are posted as informational only.

ARR FTR Market Task Force (AFMTF)
Meeting materials are posted to the [AFMTF website](#).

Regulation Market Design Senior Task Force (RMDSTF)
Meeting materials are posted to the [RMDSTF 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](#).

Distributed Resources Subcommittee (DISRS)
Meeting materials are posted to the [DISRS 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. |
| June 7 | 9 a.m. | WebEx / Conference & Training Center | May 26 | May 31 |
| July 12 | 9 a.m. | WebEx / Conference & Training Center | June 29 | July 5 |
| August 9 | 9 a.m. | WebEx / Conference & Training Center | July 28 | August 2 |
| September 6 | 9 a.m. | WebEx / Conference & Training Center | August 25 | August 30 |
| October 4 | 9 a.m. | WebEx / Conference & Training Center | September 22 | September 27 |
| November 1 | 9 a.m. | WebEx / Conference & Training Center | October 20 | October 25 |
| December 6 | 9 a.m. | WebEx / Conference & Training Center | November 22 | November 29 |

Author: A. Martin

Attendance

| In-person Attendance | | |
|----------------------------|--------------------------------------|------------------|
| Name | Company Name | Sector |
| Afelumo, Foluso (Chair) | PJM Interconnection | None |
| Martin, Amanda (Secretary) | PJM Interconnection | None |
| Anderson, Juliet | Constellation Energy Generation, LLC | Generation Owner |
| bastian, jeffrey | PJM Interconnection | None |

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|-------------------------|---|----------------------|
| Benchek, James | American Transmission Systems, Inc. | Transmission Owner |
| Carroll, Rebecca | PJM Interconnection | None |
| Chmielewski, Brian | PJM Interconnection | None |
| Chu, George | PJM Interconnection | None |
| Ciabattoni, Joseph | PJM Interconnection | None |
| Connolly, Matthew | PJM Interconnection | None |
| Croop, Danielle | PJM Interconnection | None |
| Dantonio, Phil | PJM Interconnection | None |
| Esquivel, Manuel | Enel Trading North America, LLC | Other Supplier |
| fan, zhenyu | PJM Interconnection | None |
| Ford, Adrien | Old Dominion Electric Cooperative | Electric Distributor |
| Greening, Michele | PJM Interconnection | None |
| Helm, Gary | PJM Interconnection | None |
| Hohenshilt, Jennifer | Talen Energy Marketing, LLC | Generation Owner |
| Horger, Tim | PJM Interconnection | None |
| Lai, Erin | PJM Interconnection | None |
| LeithYessian, Devin | RTOinsider | None |
| Lu, Chenchao | PJM Interconnection | None |
| Marzewski, Skyler | PJM Interconnection | None |
| Mason, Gary | Monongahela Power Company d/b/a Allegheny Power | Transmission Owner |
| Midgley, Sharon | Exelon Business Services Company, LLC | Transmission Owner |
| Scarp, David | Calpine Energy Services, L.P. | Generation Owner |
| Stadlmeyer, Rebecca | Jersey Green Energy LLC | Other Supplier |
| Stern, Alexander | Exelon Business Services Company, LLC | Transmission Owner |
| Swalwell, Brad | Tangent Energy Solutions, Inc. | Other Supplier |
| Sweeney, Rory | Power Prose, Inc. | None |
| Vinnik, Daniel | PJM Interconnection | None |
| Webex Attendance | | |
| Name | Company | Sector |
| Akeel, Roddy | Enel Trading North America, LLC | Other Supplier |
| Almonte, Arelis | PJM Interconnection | None |
| Barker, Jason | Vitol Inc. | Generation Owner |
| Belenky, Maria | PJM Interconnection | None |
| Bennett, Daniel | PJM Interconnection | None |
| Berg, William | Constellation Energy Generation, LLC | Generation Owner |
| Bielak, Donnie | PJM Interconnection | None |
| Bleiweis, Bruce | DC Energy, LLC | Other Supplier |
| Borgatti, Mike | Gabel & Associates | None |
| Breeding, Michael | PJM Interconnection | None |
| Brodbeck, John | EDP Renewables North America LLC | Generation Owner |
| Bruno, Josh | PJM Interconnection | None |
| Callen, Zachary | Illinois Commerce Commission | None |
| Campbell, Bruce | Enerwise Global Technologies, LLC | Other Supplier |
| Cao, Roger | PJM Interconnection | None |
| Caven, Augustine | PJM Interconnection | None |
| Chee, Yee Hong | MGC Energy Solutions, LLC | None |
| Chen, Hong | PJM Interconnection | None |
| Christopher, Mahila | Public Utilities Commission of Ohio | None |
| Cocco, Michael | Old Dominion Electric Cooperative | Electric Distributor |
| Cocco, Michael | Old Dominion Electric Cooperative | Electric Distributor |
| Concina, Wendell | Commonwealth Edison Company | Transmission Owner |
| Corash, Richard | PSEG Energy Resources and Trade LLC | Other Supplier |
| Cosby, Sarah | Dominion Virginia Power | Transmission Owner |
| Cox, Jason | EQ Energy Advisors, LLC | None |
| Coyne, Suzanne | PJM Interconnection | None |
| Crystle, Gil | UGI Development Company | Generation Owner |
| Curtis, Kenneth | Envenerus, Inc. | None |
| Davis, James | Dominion Energy Generation Marketing, Inc. | Generation Owner |
| Davis, David | Apex Clean Energy Holdings, LLC | None |
| DeVita, Thomas | PJM Interconnection | None |
| Dillon, Matthew | UGI Development Company | Generation Owner |

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| Ding, Yi | PJM Interconnection | None |
| Douglass, Robert | Constellation Energy Generation, LLC | Generation Owner |
| Downs, Jere | PJM Connect | None |
| Drauschak, Lisa | PJM Interconnection | None |
| Drom, Rick | Rick Drom | None |
| Dropkin, Ilyana | PJM Interconnection | None |
| Duensing, Allison | Saracen Energy East LP | Other Supplier |
| Dugan, Chuck | East Kentucky Power Cooperative, Inc. | Transmission Owner |
| Dumitriu, Nicolae | PJM Interconnection | None |
| Edgar-Smith, Collin | Ohio Edison Company | Electric Distributor |
| Edmonds, Brian | DC Public Service Commission | None |
| Egan, Amanda | PJM Interconnection | None |
| EJEBE, GABRIEL | Open Access Technology International, Inc. | None |
| Ericson, Christine | Illinois Commerce Commission | None |
| Esteppe, Tyler | Dominion Virginia Power | Transmission Owner |
| Esterly, Theresa | PJM Interconnection | None |
| Fabiano, Janell | PJM Interconnection | None |
| Fereshetian, Damon | PJM Interconnection | None |
| Fernandez, Ray | PJM Interconnection | None |
| Filomena, Guy | Customized Energy Solutions, Ltd. | None |
| Fink, Sari | Clean Power | None |
| Fitzpatrick, Brian | PJM Interconnection | None |
| Foladare, Kenneth | Geenex Solar LLC | Other Supplier |
| Frogg, Darrell | PJM Interconnection | None |
| Fultz, McClain | PPL Electric Utilities Corp. dba PPL Utilities (LSE) | Transmission Owner |
| Gaddes, Caleb | Whitetail Solar 1, LLC | Generation Owner |
| Garnett, Bryan | Duke Energy Ohio, Inc. | Transmission Owner |
| Gates, Terry | Appalachian Power Company (AEP Generation) | Transmission Owner |
| Gilani, Rehan | RWE Clean Energy Wholesale Services, Inc | Other Supplier |
| Glazer, Grant | MN8 Energy Operating Company LLC | None |
| Gordon, Jonathan | Advanced Energy Economy | None |
| Guntle, Vince | American PowerNet Management, L.P. | End-Use Customer |
| Halay, Alina | FERC | None |
| Hanser, Erik | Michigan Public Service Commission | None |
| Hauske, David | PJM Interconnection | None |
| Hauske, Thomas | PJM Interconnection | None |
| Heinle, Frederick | Dynegy Marketing and Trade, LLC | Generation Owner |
| Heisey, Bradley | Tenaska Pennsylvania Partners, LLC | Generation Owner |
| Hoey, Edward | PJM Interconnection | None |
| Horning, Lynn Marie | American Municipal Power, Inc. | Electric Distributor |
| Horstmann, John | Dayton Power & Light Company (The) | Transmission Owner |
| Hsia, Eric | PJM Interconnection | None |
| Hu, Yong | PJM Interconnection | None |
| Hudis, Gabriella | Jersey Green Energy LLC | Other Supplier |
| Hull, Gerit | American Municipal Power, Inc. | Electric Distributor |
| Hurwich, Mark | Elliott Bay Energy Trading, LLC | Other Supplier |
| Hyatt, Earl | Monitoring Analytics | None |
| Hyzinski, Tom | GT Power Group, LLC | None |
| Iler, Arthur | Indiana Office of Utility Consumer Counselor | None |
| Janicki, Diane | Boston Energy Trading and Marketing LLC | Other Supplier |
| Jardot, Gina | NRG Curtailment Solutions, Inc. | Other Supplier |
| Johnson, Carl | Customized Energy Solutions, Ltd. | None |
| Johnston, David | Other | None |
| Jones, Scott | Indiana Office of Utility Consumer Counselor | None |
| Kelly, Stephen | Brookfield Renewable Trading and Marketing LP (BSMH) | Other Supplier |
| Kent, Janessa | Duquesne Light Company | Transmission Owner |
| Keshawamurthy, Bhavana | PJM Interconnection | None |
| Kilgallen, Kevin | Avangrid Renewables, LLC | Generation Owner |
| Kimmel, David | PJM Interconnection | None |
| Kirk, Steven | NextEra Energy Marketing, LLC | Other Supplier |
| Kogut, George | New York Power Authority | Other Supplier |

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| Kroh, Jud | Seward Generation, LLC | Generation Owner |
| Laios, Takis | Appalachian Power Company (AEP Transmission) | Transmission Owner |
| LaVista, William | RWE Renewables Americas, LLC | Generation Owner |
| Lejcar, Jamie | Allegheny Electric Cooperative, Inc. | Electric Distributor |
| Luna, Joel | Monitoring Analytics | None |
| Mabry, David | McNees Wallace & Nurick LLC | None |
| Mariam, Yohannes | Office of the People's Counsel for the District of Columbia | None |
| Matuszak, Alex | UGI Energy Services, LLC | Other Supplier |
| Maucher, Andrea | Delaware Division of the Public Advocate | None |
| McClelland, Maura | Public Utilities Commission of Ohio | None |
| McElwaine, Kathy | PJM Interconnection | None |
| McLavery, Megan | PJM Interconnection | None |
| McNeil, Justin | Kentucky Public Service Commission | None |
| Mihaly, Imola | Nautilus Power, LLC | Generation Owner |
| Mok, Alan | Duke Energy Kentucky, Inc. | Transmission Owner |
| Monzon, Stephanie | PJM Interconnection | None |
| Mooney, Jeffrey | Allegheny Power (MonPwr Gen) | Generation Owner |
| Morelli, Lisa | PJM Interconnection | None |
| Morelli, Lisa | PJM Interconnection | None |
| Nix, Emma | Leeward Asset Management, LLC | Generation Owner |
| Noel Jeune, Reynaldo | Orsted Onshore North America, LLC | Generation Owner |
| Norton, Chris | American Municipal Power, Inc. | Electric Distributor |
| Oakes, Brian | PJM Interconnection | None |
| O'Connell, Moira | PJM Interconnection | None |
| ODonnell, Colleen | PUCO | None |
| O'Hara, Bernard | Sargent and Lundy | None |
| Okenfuss, James | Savion, LLC | None |
| Olaleye, Michael | PJM Interconnection | None |
| Olinger, Robert | Keystone-Conemaugh Projects, LLC (Keystone) | Other Supplier |
| Ondayko, Brock | AEP Energy Partners, Inc. (AEP Gen Resources) | Transmission Owner |
| Osborn, Eric | EDF Trading North America, LLC | Other Supplier |
| Pakela, Greg | DTE Energy Trading, Inc. | Other Supplier |
| Parrot, Sarah | Public Utilities Commission of Ohio | None |
| Patel, Anita | PJM Interconnection | None |
| patel, keyurbhai | PJM Interconnection | None |
| Peoples, John | Duquesne Light Company | Transmission Owner |
| Pierpont, Dan | Elgin Energy Center, LLC | Generation Owner |
| Pilong, Melissa | PJM Interconnection | None |
| Poulos, Greg | PJM Committee Voting Generic Account | None |
| Rasmussen, Jay | Duke Energy Business Services LLC | Transmission Owner |
| Reagan, Ryann | New Jersey Board of Public Utilities | None |
| Rode, Advait | Michigan Public Service Commission | None |
| Rutledge, Craig | Appalachian Power Company (APCO Dedicated) | Transmission Owner |
| Sasser, Jonathan | Customized Energy Solutions, Ltd. | None |
| Scheidecker, Paul | Monitoring Analytics LLC | None |
| Schmatz, Peter | PSEG Energy Resources and Trade LLC | Other Supplier |
| Scott, Nicole | PJM Interconnection | None |
| Shah, Vijay | PJM Interconnection | None |
| Shanker, Roy | East Coast Power Linden Holding, L.L.C. | Generation Owner |
| Simpson, Lori | BP Energy Company | Other Supplier |
| Sims, Ryan | Interstate Gas Supply, LLC | Other Supplier |
| Skucas, Ruta | PJM Committee Voting Generic Account | None |
| Sloan, Ben | Organization of PJM States, Inc. | None |
| Smith, Kara | Buckeye Power, Inc. | Electric Distributor |
| Sorrels, James | AEP Appalachian Transmission Company, Inc. | Transmission Owner |
| Sotkiewicz, Paul | E-Cubed Policy Associates | None |
| Souder, Michelle | PJM Interconnection | None |
| Sprinkle, Dan | Louisville Gas and Electric Company/Kentucky Utilities Company | Transmission Owner |
| Stemetzki, Michael | PJM Interconnection | None |
| Stone, Andy | Andy Stone | None |
| Sturgeon, John | Duke Energy Business Services LLC | Transmission Owner |

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| Sussler, Philip | Office of People's counsel | None |
| Sweet, Brian | PJM Interconnection | None |
| Swigonski, Frank | Pine Gate Mid-Atlantic, LLC | Generation Owner |
| Tubridy, Meg | Rockland Electric Company | Transmission Owner |
| Tutino, Joseph | PJM Interconnection | None |
| Tyler, Catherine | Monitoring Analytics | None |
| Ushijima, Hiroaki | Elwood Energy, LLC | Generation Owner |
| VanderLaan, William | Illinois Commerce Commission | None |
| Walcavich, Colin | Green River Holdings, LLC | Generation Owner |
| Wang, Daisy | Enel Trading North America, LLC | Other Supplier |
| Waweru, James | PJM Interconnection | None |
| Whitehead, Jeffrey | GT Power Group, LLC | None |
| Wilson, James | Wilson Energy Economics | None |
| Wray, Gizelle | Savion, LLC | None |
| XU, XU | PJM Interconnection | None |
| Yasutake, Sarah | Jersey Green Energy LLC | Other Supplier |
| Yovanovich, Laura | PPL Electric Utilities Corp. dba PPL Utilities (TO) | Transmission Owner |
| Zhang, Mike | PJM Interconnection | None |

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:

Unless otherwise noted, PJM stakeholder meetings are open to the public and to members of the media. Members of the media are asked to announce their attendance at all PJM stakeholder meetings at the beginning of the meeting or at the point they join a meeting already in progress. Members of the Media are reminded that speakers at PJM meetings cannot be quoted without explicit permission from the speaker. PJM Members are reminded that "detailed transcriptional meeting notes" and white board notes from "brainstorming sessions" shall not be disseminated. Stakeholders are also not allowed to create audio, video or online recordings of PJM meetings. PJM may create audio, video or online recordings of stakeholder meetings for internal and training purposes, and your participation at such meetings indicates your consent to the same.

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On the Phone, Dial



to Mute/Unmute

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Draft Minutes

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