

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

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
Hohenshiit, 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
<b>Webex Attendance</b>		
<b>Name</b>	<b>Company</b>	<b>Sector</b>
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

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

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

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.

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to Mute/Unmute

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