



Market Implementation Committee
PJM Conference & Training Center, Audubon, PA
January 10, 2018
9:00 a.m. – 2:25 p.m. EPT

Administration

- 1. Ms. Christina Stotesbury, PJM, provided announcements, reviewed the Antitrust, Code of Conduct, Public Meetings/Media Participation Guidelines, and the new Participant Identification requirement in WebEx. Ms. Stotesbury also provided a brief update on the MIC issues on Issue Tracking.
- 2. The committee approved the draft minutes from the December 13, 2017 Market Implementation Committee meeting by acclamation with 0 objections and 0 abstentions.

3. Administrative Updates:

- A. Mr. Tim Horger, PJM, provided an update on the FERC's action to withdrawal its proposal [NOPR RM17-3-000] to amend its regulations to require that each RTO/ISO incorporate market rules to meet certain requirements when pricing fast-start resources.
- B. Mr. Horger also provided an update on the recent notification and recall of Day-Ahead Market LMP reposting.

Endorsements/Approvals

4. FTR Nodal Remapping - Problem Statement & Issue Charge Mr. Brian Chmielewski, PJM, reviewed a problem statement and issue charge to address FTR nodal remapping. The committee approved the problem statement and issue charge by acclamation with 0 objections and 0 abstentions.

5. RERRA Review of Energy Efficiency Participation

Mr. Pete Langbein, PJM, reviewed the Demand Response Subcommittee proposal for the RERRA review of Energy Efficiency resource participation in the Capacity Market. The committee endorsed the proposal and governing document language by acclamation with 0 objections and 3 abstentions.

First Readings

6. Revisions to Manual 11: Energy & Ancillary Services Market Operations Mr. Rami Dirani, PJM, presented a first read of conforming revisions to Manual 11: Energy & Ancillary Services Market Operations to clarify the Energy Offer Verification process. The committee will be asked to endorse the Manual 11 revisions at the February meeting.

7. Revisions to Manual 12: Balancing Operations

Ms. Nicole Militello, PJM, presented a first read of revisions to Manual 12: Balancing Operations. The committee will be asked to endorse the Manual 12 revisions at the February meeting.





8. Tariff Revisions to address Overlapping Congestion

Ms. Nicole Militello, PJM, presented a first read of revisions to the PJM Tariff to address overlapping congestion. The committee will be asked to endorse the Tariff revisions at the February meeting.

9. Market Path/Interface Pricing Point Alignment

Mr. Tim Horger, PJM, presented a first read of updated proposals to address the Market Path/Interface Pricing Point Alignment issue. The committee will be asked to endorse a proposal at the February MIC meeting.

Working Issues

10. Long Term FTR Issue Education

Mr. Brian Chmielewski, PJM, and Mr. Seth Hayik, Monitoring Analytics, presented education on the Long Term FTR problem statement and issue charge that was approved at the October 11, 2017 MIC meeting.

Additional Updates

11. Cold Weather Operations

During the administrative updates, Mr. Joe Ciabattoni, PJM, provided a summary of operations during the extreme cold weather recently experienced in the PJM region.

12. Operationalizing Gas Pipeline Contingencies

Mr. Rich Brown, PJM, reviewed a draft problem statement and issue charge to address costs associated with the operationalizing gas pipeline contingencies initiative. Stakeholders were given an opportunity to provide feedback before the problem statement and issue charge are presented for a first read, and possible endorsement, at the January 25 MRC meeting.

13. Interregional Coordination Update

Mr. Tim Horger, PJM, provided an update on interregional coordination activities.

14. RTO Wide Black Start RFP Update

Mr. Vincent Stefanowicz, PJM, provided an update on the Black Start RFP process that impacts operational requirements and compensation for new black start generators.

Informational Section

Credit Subcommittee (CS)

Meeting materials will be posted to the CS website.

Demand Response Subcommittee (DRS)

Meeting materials will be posted to the <u>DRS web site.</u>

Intermittent Resources Subcommittee (IRS)

Meeting materials will be posted to the IRS web site.





Market Settlements Subcommittee (MSS)

Meeting materials are posted to the MSS web site.

Report on Market Operations

The Report on Market Operations will be reviewed during the MC Webinar.

Revisions to Manual 02: Transmission Service Request

Manual 02: Transmission Service Request revisions were posted as informational-only. Mr. Jeff McLaughlin, PJM, was available at the MIC to answer questions. These revisions were presented at the Planning Committee for endorsement on January 11, 2018.

Future Meeting Dates

February 7, 2018	9:00 a.m.	PJM Conference & Training Center/ WebEx
March 7, 2018	9:00 a.m.	PJM Conference & Training Center/ WebEx
April 4, 2018	9:00 a.m.	PJM Conference & Training Center/ WebEx
May 2, 2018	9:00 a.m.	PJM Conference & Training Center/ WebEx
June 6, 2018	9:00 a.m.	PJM Conference & Training Center/ WebEx
July 11, 2018	9:00 a.m.	PJM Conference & Training Center/ WebEx
August 8, 2018	9:00 a.m.	PJM Conference & Training Center/ WebEx
September 12, 2018	9:00 a.m.	PJM Conference & Training Center/ WebEx
October 10, 2018	9:00 a.m.	PJM Conference & Training Center/ WebEx
November 7, 2018	9:00 a.m.	PJM Conference & Training Center/ WebEx
December 12, 2018	9:00 a.m.	PJM Conference & Training Center/ WebEx

In-Person Attendees

Hendrzak, Chantal (Chair)	PJM Interconnection, LLC	Not Applicable
Stotesbury, Christina (Secretary)	PJM Interconnection, LLC	Not Applicable
Anders, David	PJM Interconnection, LLC	Not Applicable
Benchek, Jim	FirstEnergy Solutions Corp.	Transmission Owner
Bleiweis, Bruce	DC Energy LLC	Other Supplier
Borgatti, Michael	Gabel and Associates	Not Applicable
Bowring, Joe	Monitoring Analytics, LLC	Not Applicable
Bryson, Michael	PJM Interconnection, LLC	Not Applicable
Carroll, Rebecca	PJM Interconnection, LLC	Not Applicable
Chmielewski, Brian	PJM Interconnection, LLC	Not Applicable
Ciabattoni, Joseph	PJM Interconnection, LLC	Not Applicable
Dadourian, John	Monitoring Analytics, LLC	Not Applicable
Dirani, Rami	PJM Interconnection, LLC	Not Applicable
Driscoll, Mary Ellen	PJM Interconnection, LLC	Not Applicable
Fabiano, Janell	PJM Interconnection, LLC	Not Applicable
Fernandez, Ray	PJM Interconnection, LLC	Not Applicable
Fitch, Neal	NRG Power Marketing LLC	Generation Owner
Foladare, Kenneth	Tangibl	Not Applicable
Ford, Adrien	Old Dominion Electric Cooperative	Electric Distributor





ruess, James
Giacomoni, Anthony
Crainer Cons

Greiner, Gary Hauske, Thomas

Funce James

Hayik, Seth Holland, Risa Holter, Natasha Horger, Tim Horstmann, John

Horstmann, John

Hyzinski, Tom Johnson, Carl Keech, Adam Kelly, Steve Kenney, Susan King, Kendra

Kogut, George Langbein, Peter Lieberman, Steven

Lu, Chen Mabry, David Midgley, Sharon Militello, Nicole Morelli, Lisa Nix, Emma Noonan, Casey

O'Connell, Robert Pilong, Melissa Sasser, Jonathan Scarpignato, David Schmitt, Jeffrey

Schmitt, Jeffrey Sweeney, Rory Trayers, Barry Tribulski, Jennifer Tyler, Catherine Wadsworth, Joseph

Whitehead, Jeffrey Williams, Stanley

PBF Power Marketing LLC PJM Interconnection, LLC

PSEG Energy Resources and Trade LLC

PJM Interconnection, LLC Monitoring Analytics, LLC PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC

Dayton Power & Light Company (The)

GT Power Group

Customized Energy Solutions, Ltd.*
PJM Interconnection, LLC
Brookfield Energy Marketing LP
PJM Interconnection, LLC
PJM Interconnection, LLC
New York Power Authority
PJM Interconnection, LLC
American Municipal Power, Inc.
PJM Interconnection, LLC

McNees Wallace & Nurick LLC
Exelon Business Services Company, LLC

PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC

Public Service Electric & Gas Company

PJM Interconnection, LLC

Customized Energy Solutions, Ltd.*
Calpine Energy Services, L.P.
PJM Interconnection, LLC

RTO Insider

Citigroup Energy, Inc. PJM Interconnection, LLC Monitoring Analytics

Vitol Inc. GT Power Group

PJM Interconnection, LLC

Generation Owner

Not Applicable
Other Supplier

Not Applicable

Not Applicable

Not Applicable Not Applicable

Not Applicable

Transmission Owner

Not Applicable Not Applicable Not Applicable Other Supplier

Not Applicable
Not Applicable
Other Supplier

Not Applicable
Electric Distributor
Not Applicable
Not Applicable

Transmission Owner

Not Applicable
Not Applicable
Not Applicable
Not Applicable
Not Applicable

Transmission Owner

Not Applicable

Not Applicable
Generation Owner
Not Applicable
Not Applicable

Other Supplier
Not Applicable
Not Applicable
Other Supplier
Not Applicable
Other Supplier

Not Applicable

WebEx Attendees

Achaab, Edward Ainspan, Malcolm Anderson, Jared

Barker, Jason

AEP Energy Partners, Inc. Energy Curtailment Specialists, Inc. SPGlobal

Exelon Business Services Company, LLC

Other Supplier Other Supplier

Not Applicable
Transmission Owner





Bazar, Kevin		
Bennett, Stephen		
Bolan, Martin		
Bonanni, John		
Boyle, Glen		
Britt, Debbie		
Brodbeck, John		
Brown, Rich		
Bruno, Patrick		
Budney, Dave		
Callaghan, Chris		
Campbell, Bruce		
Canter, David		

Cerchio, Gerard Chen, Jennifer Chintapalli, Raj Cocco, Michael Coyne, Suzanne Croop, Danielle Crystle, Gil Dalessandris, Lou

Carmean, Gregory

Dasher, Brett Daugherty, Suzanne

Davis, James DeLosa, Joseph Depillo, Raymond Dillon, Matthew DiNicola, Laura Dolan, James Dolan, Ryan

Domian, Christin Dotter, Ray Drauschak, Lisa Drom, Richard Dugan, Chuck Feierabend, Rick Filomena, Guy

Fox, Angela Fuhr, Gretchen Gahimer, Mike Gebolys, Debbie PJM Interconnection, LLC PJM Interconnection, LLC FirstEnergy Solutions Corp. NRG Power Marketing LLC PJM Interconnection, LLC

North Carolina Electric Membership Corporation EDP Renewables North America, LLC

PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC EnergyConnect, Inc.

Appalachian Power Company

OPSI

Monitoring Analytics, LLC

Natural Resources Defense Council

Galt Power Inc.

Old Dominion Electric Cooperative

PJM Interconnection, LLC PJM Interconnection, LLC **UGI** Development Company FirstEnergy Solutions Corp. Energy Authority, Inc. (The) PJM Interconnection, LLC Dominion Energy Marketing, Inc. **DE Public Service Commission**

PSEG Energy Resources and Trade LLC

UGI Development Company FirstEnergy Solutions Corp. PJM Interconnection, LLC AEP Energy Partners, Inc.

Mitsubishi Electric Power Products Inc.

PJM Interconnection, LLC PJM Interconnection, LLC

Eckert Seamans

East Kentucky Power Cooperative, Inc.

Dominion Virginia Power

Customized Energy Solutions, Ltd.

Wylan Energy, L.L.C. Commerce Energy, Inc.

IN Office of Utility Consumer Counselor Public Utilities Commission of Ohio (The)

Not Applicable Not Applicable

Transmission Owner Generation Owner

Not Applicable **Electric Distributor**

Other Supplier

Not Applicable Not Applicable Not Applicable Not Applicable

Other Supplier

Transmission Owner

Not Applicable Not Applicable Not Applicable Other Supplier Electric Distributor Not Applicable

Not Applicable **Transmission Owner Transmission Owner** Other Supplier Not Applicable Generation Owner Not Applicable Other Supplier Generation Owner Transmission Owner

Not Applicable Other Supplier Not Applicable Not Applicable Not Applicable Not Applicable

Transmission Owner

Not Applicable Not Applicable Not Applicable Other Supplier **End User Customer** Not Applicable

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Genuario, Gabrielle Gerber, Rebecca Gilani, Rehan Glazer, Craig Gorman, Kevin Greening, Michele Guerry, Katie Guntle, Vince

Haas, Howard Hanser, Erik Harmon, Mike Hastings, David Heinle, Frederick Heisey, Bradley Helms, Joseph Hoatson, Tom Hohenshilt, Jennifer Holdbrook, Ruth

Hudis, Gabriella Hudson, Wesley Hugee, Jacqulynn Hurwich, Mark Janicki, Diane Jardot, Gina Jett, William Johnson, Nick Jones, Ryan

Kaczanowski, Marek Kauffman, Brian Kazerooni, Hamid Keeney, Jerry Kelly, Stephen Kilgallen, Kevin Kimmel, David Kinser, Cynthia LaRocque, Matthew Lee, Lori Murphy Lejcar, Jamie Leopold, Chris Lewis, Cara

Liang-Nicol, Cecilia Libbos, Robin

PJM Interconnection, LLC PJM Interconnection, LLC ConEdison Energy, Inc. PJM Interconnection, LLC

Highlands Energy Group LLC (The) PPL Electric Utilities Corp. dba PPL Utilities

EnerNOC, Inc.

UGI Development Company Monitoring Analytics, LLC

Michigan Public Service Commission

Union Electric Company d/b/a Ameren Missouri

Market Interconnection LLC Office of the People's Counsel Wolf Hills Energy, LLC

Rainbow Energy Marketing Corporation

Riverside Generating, LLC Talen Energy Marketing, LLC

Northern Virginia Electric Cooperative

Jersey Green Energy LLC **Dominion Virginia Power** PJM Interconnection, LLC Elliott Bay Energy Trading, LLC

Boston Energy Trading & Marketing, LLC Essential Power Rock Springs, LLC **Duke Energy Business Services LLC** Tenaska Power Services Co. Allegheny Electric Cooperative, Inc.

Baltimore Gas and Electric Company

NRG Curtailment Solutions Talen Energy Marketing, LLC Dynegy Marketing & Trade, LLC Brookfield Energy Marketing LP Avangrid Renewables LLC PJM Interconnection, LLC

Tennessee Department of Agriculture

PJM Interconnection, LLC PJM Interconnection, LLC

Allegheny Electric Cooperative, Inc. Appalachian Power Company

Public Service Electric & Gas Company

Monongahela Power Company d/b/a Allegheny Power

FirstEnergy Solutions Corp.

Not Applicable Not Applicable Other Supplier Not Applicable Other Supplier **Transmission Owner**

Other Supplier **Generation Owner** Not Applicable Not Applicable Other Supplier Not Applicable

End User Customer Generation Owner Other Supplier Other Supplier **Generation Owner** Electric Distributor Other Supplier Not Applicable

Not Applicable Other Supplier **Generation Owner Transmission Owner Generation Owner Generation Owner** Electric Distributor **Transmission Owner** Other Supplier **Generation Owner Generation Owner**

Other Supplier Generation Owner Not Applicable Not Applicable Not Applicable Not Applicable Electric Distributor **Transmission Owner Transmission Owner Transmission Owner Transmission Owner**

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Logan, Sharon

Lokhandwalla, Faizmin

Long, Glenn Long, Matt Loomis, Harold Lowe, Connie Mae Velasco, Cheryl

Mancuso, Melanie Marcino, Angelo Mariam, Yohannes Markiewicz, Cindy

Markiewicz, Cindy Martin, Valerie Marton, David Marzewski, Skyler Matheson, Doug Maxwell, Melissa McLaverty, Megan Merola, Becky

Miller, John
Nawaz, Zainab
Nguyen, Doris
Norton, Chris
OHara, Christopher
Olaleye, Michael
Olenick, Cory
Ondayko, Brock
Pacella, Chris

Pakela, Greg
Park, Jinny
Patel, Anita
Patel, Keyur
Pelletier, Eveline
Peoples, John
Philips, Marjorie

Picardi, Matthew Pilong, Chris Poulos, Greg Powers, Sean Pratzon, David

Price, Ruth Prokop, Brenda

Price, Mark

The Federal Energy Regulatory Commission

Dynegy

PJM Interconnection, LLC AEP Energy Partners, Inc. PJM Interconnection, LLC

Public Service Electric & Gas Company

PJM Interconnection, LLC FirstEnergy Solutions Corp. PJM Interconnection, LLC

Office of the Peoples Counsel for the District of Columbia

FirstEnergy Solutions Corp.

The Federal Energy Regulatory Commission

FirstEnergy Solutions Corp. Monitoring Analytics, LLC

EnerNOC, Inc.

PJM Interconnection, LLC PJM Interconnection, LLC

Noble Americas Energy Solutions LLC Commonwealth Edison Company

NJ Board of Public Utilities

Dynegy Marketing and Trade, LLC
American Municipal Power, Inc.
PJM Interconnection, LLC
PJM Interconnection, LLC
West Oaks Energy, LP
Appalachain Power Company
PJM Interconnection, LLC
DTE Energy Trading, Inc.
PJM Interconnection, LLC
PJM Interconnection, LLC
PJM Interconnection, LLC

Hydro-Quebec

Duquesne Light Company Direct Energy Business, LLC

Shell Energy North America (US), LP

PJM Interconnection, LLC

CAPS

Linde Energy Services, Inc.

GT Power Group

DC Energy Mid-Atlantic, LLC

Division of the Public Advocate of the State of Delaware

ITC Mid-Atlantic Development LLC

Not Applicable

Generation Owner

Not Applicable
Other Supplier

Not Applicable

Transmission Owner

Not Applicable

Transmission Owner

Not Applicable

End User Customer

Transmission Owner

Not Applicable

Transmission Owner

Not Applicable
Other Supplier
Not Applicable
Not Applicable
Other Supplier

Transmission Owner
Not Applicable

Generation Owner
Electric Distributor
Not Applicable
Not Applicable
Other Supplier

Transmission Owner

Not Applicable
Other Supplier
Not Applicable
Not Applicable
Not Applicable
Not Applicable

Transmission Owner

Other Supplier
Other Supplier
Not Applicable
Not Applicable
End User Customer
Not Applicable

Not Applicable
Other Supplier
End User Customer

Other Supplier





Rajan, Abhijit Ramsey, James Rayhorn, Carolyn Reams, William Reeping, Bob Ritchie, Sandra Robinson, Maria Robson, Matt Rohrbach, John Rothey, Kristin Ruck, Andrew Rushing, Joseph Rutigliano, Tom Saini, Ishwar Scheidecker, Paul Schneider, Jon Schreim, Morris Schuyler, Ken Scott, Hugh Shah, Vijay Shanker, Roy Sillin, John Skucas, Ruta Snyder, Sue Sock, Bryan

Stadelmeyer, Rebecca Stefanowicz, Vincent Stern, Alexander Stewart, Travis Stone, Andy Suh, Jung Tatum, Edward Tibbetts, Maeve Tique, John Tsao, Stephanie Vayda, Brian

Velasco, Cheryl Mae Villeneuve, Alexandre Vitiello, Jacqueline Walter, Laura Ward, Michael Webster, John

Dominion Resources Suffolk Fund LLC **Dominion Virginia Power**

Allegheny Electric Cooperative, Inc. Ohio Edison Company

PJM Interconnection, LLC Advanced Energy Economy, Inc. SESCO Enterprises LLC

Southern Maryland Electric Cooperative American Municipal Power, Inc.

PSEG Energy Resources and Trade, LLC

PJM Interconnection, LLC Achieving Equilibrium LLC Macquarie Energy LLC PJM Interconnection, LLC FirstEnergy Solutions Corp.

Maryland Public Service Commission

PJM Interconnection, LLC

Baltimore Gas and Electric Company

PJM Interconnection, LLC H.Q. Energy Services (U.S.), Inc.

The Federal Energy Regulatory Commission

Pierce Atwood

PJM Interconnection, LLC

PSEG Energy Resources and Trade, LLC

PJM Interconnection, LLC PJM Interconnection, LLC

Public Service Electric & Gas Company

Gable and Associates PJM Interconnection, LLC

Noble Americas Energy Solutions LLC

American Municipal Power

Pierce Atwood

New York State Electric & Gas Corporation

SPGlobal

Borough of Park Ridge, NJ PJM Interconnection, LLC MAG Energy Solutions, Inc. Dominion Energy Marketing, Inc. PJM Interconnection, LLC PJM Interconnection, LLC

Icetec.com, Inc.

Not Applicable Other Supplier Not Applicable Electric Distributor **Transmission Owner**

Not Applicable Not Applicable Other Supplier Electric Distributor **Electric Distributor** Other Supplier

Not Applicable Other Supplier Other Supplier Not Applicable Transmission Owner Not Applicable

Not Applicable **Transmission Owner**

Not Applicable Other Supplier Not Applicable Not Applicable Not Applicable

Transmission Owner Not Applicable Not Applicable

Transmission Owner

Not Applicable Not Applicable Other Supplier **Electric Distributor** Not Applicable Other Supplier Not Applicable **Electric Distributor**

Not Applicable Other Supplier **Generation Owner** Not Applicable Not Applicable Other Supplier

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Wei, Jane
Wilhite, Chad
Wilkie, Brian
Williams, Amber
Wilmoth, Emily
Wilson, James
Wolfe, Alice
Wood, Gordon

Monitoring Analytics, LLC
FirstEnergy Solutions Corp.
Consolidated Edison Solutions, Inc.
New York State Electric & Gas Corporation
Dominion Virginia Power
Wilson Energy Economics
Blue Ridge Power Agency, Inc.

ETC Endure Energy L.L.C.

Not Applicable
Transmission Owner
Other Supplier
Other Supplier
Not Applicable
Not Applicable
Electric Distributor
Other Supplier

Author: Christina Stotesbury

Provide feedback on the progress of this group: <u>Facilitator Feedback Form</u>
Visit <u>learn.pim.com</u>, an easy-to-understand resource about the power industry and PJM's role.