



Market Implementation Committee
PJM Conference & Training Center, Audubon, PA
June 7, 2017
9:00 a.m. – 4:15 p.m. EPT

## Administration

- 1. Ms. Christina Stotesbury, PJM, provided announcements and reviewed the Antitrust, Code of Conduct, and Public Meetings/Media Participation Guidelines.
- 2. The committee approved the draft minutes from the May 3, 2017 Market Implementation Committee meeting by acclamation with 0 objections and 0 abstentions.
- 3. Ms. Christina Stotesbury, PJM, reviewed the active MIC issues on <u>Issue Tracking</u>. Direct links the issues being worked in MIC Special Sessions are now available on the <u>MIC page</u>.
- 4. Administrative Updates:
  - A. Mr. Thomas Zadlo, PJM, provided a brief update on data posting impacts associated with Data Miner 2.
  - B. Mr. Eric Hsia, PJM, provided a brief update on the Reg D control change analysis. Stakeholders requested additional analysis on this topic to be provided at a future meeting.

A stakeholder also requested an update on Order 825 - Shortage Pricing to be presented at the July MIC.

#### **Endorsements/Approvals**

## 5. Energy Efficiency Participation in Capacity Markets – Problem Statement and Issue Charge

- A. Ms. Denise Foster, PJM, presented a problem statement and issue charge that addresses state restrictions on energy efficiency resources participating in capacity markets.
- B. Mr. Rick Drom, Eckert Seamans Cherin & Mellot, LLC, presented concerns with the proposed problem statement and issue charge on behalf of the Advanced Energy Economy (AEE).
- Mr. Bruce Campbell, EnergyConnect, Inc., (OR C Power) moved that the vote on the Problem Statement be deferred until the earlier of resolution of the jurisdiction issues, or January 1, 2018. Mr. Tom Rutigliano, ACHVEQ, seconded the motion. This motion failed by 59%.
- While there was discussion around amending the Issue Charge, the Committee moved forward with voting the original problem statement and issue charge, which was approved with 85 in favor (51%), 81 opposed (49%) and 14 abstentions.

## 6. Demand Response Open Registration Window

Mr. Pete Langbein, PJM, reviewed the proposed solution packages to address the DR Open Registration Window issue. **The committee did not endorse any of the packages.** 

Package A failed with 47 in favor (32%), 100 opposed (68%) and 22 abstentions.

Package B failed with 40 in favor (33%), 81 opposed (67%) and 19 abstentions.

Package C failed with 10 in favor (8%), 116 opposed (92%) and 19 abstentions.





## 7. Price Responsive Demand Problem Statement and Issue Charge

Mr. Pete Langbein, PJM, reviewed a problem statement and issue charge that addresses Price Responsive Demand. A friendly amendment to the Issue Charge to remove Key Work Activity #2 was accepted. The updated Issue Charge is posted with the June MIC materials.

The committee approved the problem statement and issue charge by acclamation with 0 objections and 1 abstention.

## 8. FTR Balancing Congestion and Manual 28 Revisions

Mr. Ray Fernandez, PJM, reviewed Manual 28: Operating Agreement Accounting revisions associated with FTR Balancing Congestion.

The committee approved the Manual 28 revisions by acclamation with 0 objections and 0 abstentions.

## 9. FTR Surplus Funds – Problem Statement and Issue Charge

Mr. Jeff Whitehead, Direct Energy, reviewed an updated problem statement and issue charge that addresses Day Ahead Surplus Congestion Funds and FTR Auction Revenue Surplus Funds. A friendly amendment to the Issue Charge Key Work Activity #2 to change "appropriate" to "alternate" was accepted. The updated Issue Charge is posted with the June MIC materials.

The committee approved the problem statement and issue charge by acclamation with 1 objection and 1 abstention.

## 10. Default Liquidation Provisions – Problem Statement and Issue Charge

Ms. Laura Walter, PJM, reviewed a problem statement and issue charge related to default liquidation with a net gain and provisions for liquidating RPM positions. A minor amendment to the Issue Charge to assign this issue to the Credit Subcommittee was accepted. The updated Issue Charge is posted with the June MIC materials.

The committee approved the problem statement and issue charge by acclamation 0 objections and 0 abstentions.

## 11. FTR Auction Posting Delay – Problem Statement and Issue Charge

Mr. Asanga Perera, PJM, reviewed an updated problem statement and issue charge related to delayed FTR Auction postings. To accommodate stakeholder requests to broaden the discussion on this issue, the original problem statement and issue charge was brought back and voted for approval.

The committee approved the original problem statement and issue charge by acclamation with 0 objections and 0 abstentions.

## Working Issues

## 12. Annual Revenue Requirements for new Black Start Units – Phase 2

- A. Mr. Tom Hauske, PJM, presented education on Minimum Tank Suction Levels (MTSL) as part of Phase 2 for the Annual Revenue Requirements for new Black Start units.
- B. Dr. Joseph Bowring, Monitoring Analytics, presented additional MTSL education on behalf of the IMM.





## First Readings

## 13. Manual Revisions for Capacity Performance & Performance Assessment Hours

Ms. Rebecca Stadelmeyer, PJM, presented a first read of revisions to Manual 11: Energy & Ancillary Services, and Manual 18: PJM Capacity Market, for revisions associated with Capacity Performance Shortfall and Bonus MW calculations. The committee will be asked to endorse the manual revisions at the July MIC meeting.

## 14. Manual Revisions for Intraday Offers

Ms. Lisa Morelli, PJM, presented a first read of conforming revisions to Manual 11: Energy & Ancillary Services, associated with the implementation of Intraday Offers. The committee will be asked to endorse the manual revisions at the July MIC meeting.

## 15. Governing Document Revisions to the Limitation on Claims

Mr. Steven Shparber, PJM, presented Tariff and Operating Agreement revisions related to the Limitation on Claims. The committee will be asked to endorse the Tariff revisions at the July MIC meeting.

## Additional Updates

## 16. Fuel Cost Policy Annual Review Process Update

- A. Mr. Jeff Schmitt, PJM, provided an update on the Annual Review period, and deadline to confirm all Market Seller's Fuel Cost Policies are still applicable, or submit an updated Fuel Cost Policy for review by June 15. Emission and VOM sample calculations must be submitted as part of the Annual Review by August 1, 2017.
- B. Dr. Joseph Bowring, Monitoring Analytics, provided an update on Fuel Cost Policies and a new MIRA module.

#### 17. Order 831: Offer Cap Update

Ms. Alpa Jani, PJM, provided an update on timelines and implementation details supporting Order 831.

## 18. 2017/2018 ARR/FTR Market Results and Projections

Mr. Asanga Perera, PJM, provided an update on the 2017/2018 ARR/FTR Market results and projections.

#### 19. PJM Markets Certification Training

Ms. Rebecca Gerber, PJM, provided an update on a voluntary PJM Markets Certification Program offered by State and Member Training.

#### 20. Inter-Regional Coordination Activity

Mr. Tim Horger, PJM, provided an update on Inter-Regional Coordination efforts.

## **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 DRS web site.

## **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.

## Future Meeting Dates

July 12, 2017	9:00 a.m.	PJM Interconnection – Conference & Training Center
August 9, 2017	9:00 a.m.	PJM Interconnection – Conference & Training Center
September 13, 2017	9:00 a.m.	PJM Interconnection – Conference & Training Center
October 11, 2017	9:00 a.m.	PJM Interconnection – Conference & Training Center
November 8, 2017	9:00 a.m.	PJM Interconnection – Conference & Training Center
December 13, 2017	9:00 a.m.	PJM Interconnection – Conference & Training Center

## **Members in Attendance**

Hendrzak, Chantal Stotesbury, Christina Benchek, Jim Bleiweis, Bruce Brodbeck, John Dillon, Matthew Dugan, Chuck Filomena, Guy Greiner, Gary Guerry, Katie Horstmann, John Jablonski, James Jardot, Gina Johnson, Carl Kauffman, Brian Kilgallen, Kevin Kogut, George Midgley, Sharon Rutigliano, Tom Sasser, Jonathan Scarpignato, David	PJM Interconnection, LLC PJM Interconnection, LLC FirstEnergy Solutions Corp. DC Energy LLC EDP Renewables North America, LLC UGI Development Company East Kentucky Power Cooperative, Inc. Customized Energy Solutions, Ltd.* PSEG Energy Resources and Trade LLC EnerNOC, Inc. Dayton Power & Light Company (The) Borough of Butler, Butler Electric Division Essential Power Rock Springs, LLC Customized Energy Solutions, Ltd.* NRG Curtailment Solutions Avangrid Renewables LLC New York Power Authority Exelon Business Services Company, LLC Achieving Equilibrium LLC Customized Energy Solutions, Ltd.* Calpine Energy Services, L.P.	Not Applicable Not Applicable Transmission Owner Other Supplier Other Supplier Generation Owner Transmission Owner Not Applicable Other Supplier Other Supplier Transmission Owner Electric Distributor Transmission Owner Not Applicable Other Supplier Generation Owner Other Supplier Transmission Owner Other Supplier Transmission Owner Other Supplier Transmission Owner Other Supplier Not Applicable Generation Owner
Sasser, Jonathan	Customized Energy Solutions, Ltd.*	Not Applicable
Scarpignato, David Trayers, Barry	Calpine Energy Services, L.P. Citigroup Energy, Inc.	Generation Owner Other Supplier
Wadsworth, Joseph	Vitol Inc.	Other Supplier
Whitehead, Jeffrey	Direct Energy Business Marketing, LLC	Other Supplier

## Also in Attendance

Anders, David	PJM Interconnection, LLC	Not Applicable
Borgatti, Mike	Gable and Associates	Not Applicable
Bowring, Joe	Monitoring Analytics, LLC	Not Applicable
Campbell, Bruce	CPower Corp	Not Applicable
Carroll, Rebecca	PJM Interconnection, LLC	Not Applicable





Dirani, Rami PJM Interconnection, LLC Drom, Richard **Eckert Seamans** PJM Interconnection, LLC Egan, Amanda Fernandez, Ray PJM Interconnection, LLC Foladare, Kenneth Tangibl LLC PJM Interconnection, LLC Foster, Denise White Pine Energy Consulting Fuess, Jay Gerber, Rebecca PJM Interconnection, LLC Hauske, Thomas PJM Interconnection, LLC Horger, Tim PJM Interconnection, LLC PJM Interconnection, LLC Hsia, Eric Hyzinski, Tom **GT Power Group** Jani, Alpa PJM Interconnection, LLC Kenney, Susan PJM Interconnection, LLC Langbein, Peter PJM Interconnection, LLC Loomis, Harold PJM Interconnection, LLC Mabry, David McNees Wallace & Nurick LLC Marzewski. Skyler Monitoring Analytics, LLC McGlynn, Paul PJM Interconnection, LLC Mooney, Catherine Monitoring Analytics, LLC Morelli, Lisa PJM Interconnection, LLC Perera, Asanga PJM Interconnection, LLC Pilong, Chris PJM Interconnection, LLC CAPS Poulos, Greg Pratzon, David **GT Power Group** Schmitt, Jeffrey PJM Interconnection, LLC Shparber, Steven PJM Interconnection, LLC

Stadelmeyer, Rebecca PJM Interconnection, LLC Stewart, Travis Gable and Associates Sweeney, Rory RTO Insider Advanced Energy Economy Inc Swigonski, Frank Tribulski, Jennifer PJM Interconnection, LLC Walter, Laura PJM Interconnection, LLC

Not Applicable Not Applicable

Not Applicable

Other Supplier

#### In Attendance via WebEx / Teleconference

Zadlo, Thomas

Ainspan, Malcolm Energy Curtailment Specialists, Inc. Atkins, Blain **Duke Energy Business Services LLC** Austin, Larry PJM Interconnection, LLC Bazar, Kevin PJM Interconnection, LLC Eastern Generation, LLC Bentele, Matt Bhavaraju, Murty PJM Interconnection, LLC Bolan, Martin FirstEnergy Solutions Corp.

North Carolina Electric Membership Corporation Britt, Debbie Brown, Rich PJM Interconnection, LLC Budney, Dave PJM Interconnection, LLC Carmean, Gregory **OPSI** Chao, Hung-po PJM Interconnection, LLC

Chen, Jennifer Natural Resources Defense Council

Chocarro Aguirrebengoa, Iker E.ON Climate & Renewables North America, Inc.

PJM Interconnection, LLC

Old Dominion Electric Cooperative Cocco, Michael Coyne, Suzanne PJM Interconnection, LLC

Crews, David East Kentucky Power Cooperative, Inc. PJM Interconnection, LLC Croop, Danielle

UGI Utilities. Inc. Crystle, Gil Cummings, Bridgid PJM Interconnection, LLC Currier, Jeff Dominion Virginia Power Daugherty, Suzanne PJM Interconnection, LLC Transmission Owner Not Applicable Not Applicable Generation Owner Not Applicable Transmission Owner Electric Distributor Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Generation Owner Electric Distributor Not Applicable Transmission Owner Not Applicable Transmission Owner Not Applicable Not Applicable Not Applicable

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Davis, James DeLosa, Joseph Dickson, Douglas Dillon, Matt DiNicola, Laura Domian, Christin Ellen Driscoll, Mary Esposito, Pati Evrard. David Falin, Tom

Fan, Zhenyu Farber, John Feierabend, Rick Fitch, Neal Foster, Dana Fox, Angela

Gagen, Roderick Garnett, Bryan Gebolys, Debbie Genuario, Gabby Gilani, Rehan Godson, Gloria

Gorman, Kevin Hagaman, Derek Hanser, Erik

Hastings, David Hayik, Seth Haynes, Gregory Heisey, Bradley Helm, Gary

Helms, Joseph HIggins, Sharon Hoatson, Tom Horton, Dana

Hsia, Eric Hugee, Jacqulynn Hyzinski, Tom Janicki, Diane Johnston, Dave Kaczanowski, Marek

Karrasch, Kim Keech, Todd Kelly, Kyo Kenney, Susan

Keshavamurthy, Bhavana

Kimmel, David Kraemer, Neil Kuhn, Tyler LaRocque, Matthew Leasure, Jill Leicar, Jamie Leopold, Chris Liang-Nicol, Cecilia Libbos, Robin Logan, Sharon

Long, Matt Lowe, Connie Mancus, Melanie Manning, James

Dominion Energy Marketing, Inc. DE Public Service Commission New Jersey Board of Public Utilities

UGI Utilities, Inc.

FirstEnergy Solutions Corp

Mitsubishi Electric Power Products Inc. PJM Interconnection, LLC

TransCanada Power Marketing Ltd. Pennsylvania Office of Consumer Advocate

PJM Interconnection, LLC PJM Interconnection, LLC DE Public Service Commission Dominion Virginia Power NRG Power Marketing, LLC

Wylan Energy, L.L.C. Dominion Virginia Power Duke Energy Ohio, Inc.

Public Utilities Commission of Ohio (The)

PJM Interconnection, LLC ConEdison Energy, Inc. Exelon/Pepco

Highlands Energy Group LLC (The)

**GT Power Group** 

Michigan Public Service Commission

Dhastco

Monitoring Analytics, LLC Energy Authority, Inc. (The) Tenaska Power Services Co. PJM Interconnection. LLC

Rainbow Energy Marketing Corporation

Duke Energy Commercial Asset Management, Inc.

Riverside Generating, LLC Appalachian Power Company PJM Interconnection, LLC PJM Interconnection, LLC **GT Power Group** 

Boston Energy Trading & Marketing, LLC Indiana Utility Regulatory Commission Baltimore Gas and Electric Company

Interstate Gas Supply, Inc. PJM Interconnection, LLC

Southern Company Services, Inc. as agent for Alabama Power Co. Other Supplier

PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC XO Energy MA, L.P. DC Energy, LLC PJM Interconnection, LLC Keystone Projects

Allegheny Electric Cooperative, Inc. Appalachian Power Company

Monongahela Power Company d/b/a Allegheny Power

FirstEnergy Solutions Corp.

The Federal Energy Regulatory Commission

AEP Energy Partners, Inc. **Dominion Virginia Power** 

Allegheny Energy Supply Company, L.L.C. North Carolina Electric Membership Corporation **Generation Owner** Not Applicable Not Applicable

Transmission Owner Transmission Owner Not Applicable Not Applicable Other Supplier

**End-use Customer** Not Applicable Not Applicable Not Applicable Not Applicable Generation Owner

Not Applicable Not Applicable Not Applicable Transmission Owner Not Applicable

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

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

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

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

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

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Mariam, Yohannes Martin, Valeria Marzewski, Skyler Matzen, Jeff McDaniel, John McEachern, Ben Midgley, Sharon Mihaly, Imola Miller, John Mork, Robb O'Connell, Robert Olenick, Cory

Ondayko, Brock O'Neill, Jack Pakela, Gregory Patel, Keyur Patten, Kevin Peoples, John Picarelli, David Pilong, Melissa Poprocki, Jim Powers, Sean Price, Mark Rajan, Abhijit Ramsey, James Reeping, Bob Riehl, John Robins, Pip

Rohrbach, John Rothey, Kristin Sasser, Jonathan Schmatz, Peter Schneider, Jon Schum, Alice Schuyler, Ken Scoglietti, Barbara Seelaus, Andy Seelaus, Tim Shanker, Roy Shannon, Gary Sitarchyk, Mike Stroup, Kerry Tangirala, Subha

Thompson, Matthew Tsao, Stephanie Vayda, Brian Velasco, Cheryl Mae Ward, Mike

Warner-Freeman, Jennifer

Warshel, Kim Wassil, Paul Wicks, Tonja Wilmoth, Emily Wilson, James Wong, Bryant Yu, Joel

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

Cogentrix Energy Power Management, LLC

**Duquesne Light Company** 

Office of the Peoples Counsel for the District of Columbia Federal Energy Regulatory Commission (The)

Monitoring Analytics, LLC

Dominion Energy Generation Marketing, Inc.

Baltimore Gas and Electric Company

ley Battery Utility, LLC

sharon.midgley@exeloncorp.com

Cogentrix Energy Power Management, LLC

Commonwealth Edison Company

Indiana Office of Utility Consumer Counselor (IN OUCC)

Main Line Electricity Market Consultants, LLC

Inertia Power I, LLC Appalachian Power Company PJM Interconnection, LLC DTE Energy Trading, Inc. PJM Interconnection, LLC Appalachian Power Company **Duquesne Light Company** PJM Interconnection, LLC PJM Interconnection, LLC Interstate Gas Supply, Inc. Linde Energy Services, Inc. DC Energy Mid-Atlantic, LLC

**Dominion Resources** Suffolk Fund LLC Ohio Edison Company

Federal Energy Regulatory Commission (The)

EMC Development Company, Inc. Southern Maryland Electric Cooperative American Municipal Power, Inc. Customized Energy Solutions Ltd\* PSEG Energy Resources and Trade LLC

FirstEnergy Solutions Corp. Illinois Municipal Electric Agency PJM Interconnection, LLC Tangent Energy Solutions, Inc. EMC Development Company, Inc. EMC Development Company, Inc. H.Q. Energy Services (U.S.), Inc. Appalachian Power Company PJM Interconnection, LLC PJM Interconnection, LLC

ABB

XO Energy MA, L.P. **SPGlobal** 

Vineland Municipal Electric Utility

**Dominion Virginia Power** Wilson Energy Economics

EDP Renewables North America, LLC

Rockland Electric Company

**End User Customer** Not Applicable Not Applicable Generation Owner Transmission Owner Other Supplier Transmission Owner Generation Owner

Transmission Owner **End-use Customer** Not Applicable Other Supplier

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

Not Applicable Not Applicable Other Supplier End User Customer Other Supplier

Not Applicable Other Supplier Transmission Owner Not Applicable

Other Supplier Electric Distributor Electric Distributor Not Applicable Transmission Owner

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

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

Generation Owner Transmission Owner Not Applicable Not Applicable Generation Owner Transmission Owner

Author: Christina Stotesbury

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