



Market Implementation Committee
PJM Conference & Training Center, Audubon, PA
February 7, 2018
9:00 a.m. – 3:10 p.m. EPT

#### Administration

- 1. Ms. Christina Stotesbury and Ms. Chantal Hendrzak provided announcements; reviewed the Antitrust, Code of Conduct, and Public Meetings/Media Participation Guidelines, and Issue Tracking.
- 2. The committee approved the draft minutes from the January 10, 2018 Market Implementation Committee meeting by acclamation with 0 objections and 0 abstentions.

### **Endorsements/Approvals**

- 3. Revisions to Manual 11: Energy & Ancillary Services Market Operations
  Mr. Rami Dirani, PJM, reviewed conforming revisions to Manual 11: Energy & Ancillary Services Market
  Operations to clarify the Energy Offer Verification process. The committee endorsed the Manual 11
  revisions by acclamation with 0 objections and 0 abstentions.
- 4. Revisions to Manual 12: Balancing Operations

Ms. Nicole Militello, PJM, reviewed conforming revisions to Manual 12: Balancing Operations to address PJM's External Capacity filing. Mr. Stephen Kelly, Brookfield, motioned to delay voting the planning revisions as part of the Manual 12 endorsement. Mr. Barry Trayers, Citibank, seconded the motion. The committee endorsed the Manual 12 revisions with the exception of the planning section, by acclamation with 0 objections and 0 abstentions. The revisions that impact Manual 12 Section F.2 - Planning Eligibility Criteria will be reviewed at the Planning Committee on February 8 for further discussion and possible endorsement. The final revisions are expected to be presented at the March MRC for endorsement,

- 5. Tariff Revisions to address Overlapping Congestion
  - Ms. Militello, PJM, also reviewed revisions to the PJM Tariff and Operating Agreement to address overlapping congestion. The committee endorsed the governing document revisions by acclamation with 7 objections and 0 abstentions.
- 6. Market Path/Interface Pricing Point Alignment

The final solution package proposals to address the Market Path/Interface Pricing Point Alignment issue were reviewed by each package owner.

The committee did not endorse any of the proposed packages and supported maintaining status quo. Package A (PJM & IMM Joint) failed with 39 (17%) in favor, 187 (83%) opposed, and 42 abstentions.

Package B (Brookfield) failed with 74 (38%) in favor, 122 (62%) opposed, and 69 abstentions.

Package C (AEP & Financial Marketers Coalition) failed with 94 (44%) in favor, 120 (56%) opposed, and 51 abstentions.

Package D (PJM) failed with 71(32%) in favor, 151 (68%) opposed, and 34 abstentions.





The Market Implementation Committee supported maintaining Status Quo with 135 (69%) in favor, 62 (31%) opposed, and 58 abstentions.

It is expected this Problem Statement will be closed.

### First Readings

### 7. FTR Forfeiture Rule - Problem Statement & Issue Charge

Ms. Sharon Midgley, Exelon, provided a first read of a problem statement and issue charge to address the FTR Forfeiture Rule. The committee will be asked to approve the problem statement and issue charge at the March MIC meeting.

### 8. Must Offer Exemption Process - Problem Statement & Issue Charge

Ms. Midgley, Exelon, also provided a first read of a problem statement and issue charge to address the Must Offer Exemption process. The committee will be asked to approve the problem statement and issue charge at the March MIC meeting.

### 9. Variable Operations & Maintenance Packages

Mr. Tom Hauske, PJM, provided a first read of the solution packages to address Variable Operations & Maintenance Costs that were proposed in the MIC Special Sessions. There is a MIC Special Session to finalize the VOM packages on Friday, February 16 from 1:00 to 3:30pm. Any changes to the existing packages will be reviewed as a second-First Read at the March MIC meeting.

#### Working Issues

#### 10. FTR Nodal Remapping

Mr. Brian Chmielewski, PJM, presented education on the FTR Nodal Remapping issue that was approved at the January MIC.

#### 11. Long Term FTR Auction

- A. Mr. Brian Chmielewski, PJM, presented follow-up education on the Long Term FTR issue.
- B. Education from the perspective of market participants related to the Long Term FTR Market was also presented.

## 12. Market Seller Offer Cap Balancing Ratio

Mr. Pat Bruno, PJM, provided an overview and education on the Market Seller Offer Cap Balancing Ratio issue approved at the October MRC.

#### Additional Updates

### 13. Cost-Based & Market-based Energy Offers greater than \$1,000/MWh

A. Mr. Jeff Schmitt, PJM, provided a summary of cost-based offers that exceeded \$1,000/MWh during the extreme cold weather experienced in the PJM region the first week of January 2018.

# **pjm**

# **Draft Minutes**



B. Ms. Susan Kenney, PJM, provided an update on a Markets Gateway enhancement to prevent market-based offers greater than cost-based offers exceeding \$1,000/MWh.

### 14. Net Energy Injections Report

Mr. Ken Schuyler, PJM, provided a summary of the 4<sup>th</sup> Quarter 2017 Net Energy Injections Report.

#### 15. Load Management Report

Mr. Jack O'Neill, PJM, provided a summary of the 2017-2018 Load Management Report.

### 16. Regional Transmission Expansion Process Incremental Auction Revenue Rights

Mr. Asanga Perera, PJM, provided an update on the Regional Transmission Expansion Process (RTEP) Incremental Auction Revenue Rights (IARRs) for the 2018/2019 planning period.

#### 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.

#### **Interregional Coordination Update**

Materials were posted as informational only. Mr. Tim Horger, PJM, was available in-person for guestions.

#### 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

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) Stotesbury, Christina (Secretary)

Benchek, Jim Bleiweis, Bruce Borgatti, Michael Bowring, Joe Bruno, Patrick

Chmielewski, Brian Ciabattoni, Joseph

Dadourian, John Dantonio, Phil Dirani, Rami Filomena, Guy

Foladare, Kenneth

Ford, Adrien Fuess, Christian Fuess, James

Greiner, Gary Guerry, Katie Haas, Howard

Habtemichael, Yonas

Hauske, Thomas Horger, Tim Horstmann, John Horton, Dana Hsia, Eric

Hudis, Gabriella Johnson, Carl Josyula, Siva

Kauffman, Brian Keech, Adam Kharod, Ankit King, Kendra Kogut, George Langbein, Pete

Loomis, Harold Lowe, Connie Lu. Chen

Midgley, Sharon Militello, Nicole Morelli, Lisa PJM Interconnection, LLC PJM Interconnection, LLC

FirstEnergy Solutions Corp.

DC Energy LLC
Gabel and Associates
Monitoring Analytics, LLC
PJM Interconnection, LLC
PJM Interconnection, LLC
PJM Interconnection, LLC
Monitoring Analytics, LLC

PJM Interconnection, LLC

PJM Interconnection, LLC

Customized Energy Solutions, Ltd.

Tangibl

Old Dominion Electric Cooperative

PFB Power Marketing PBF Power Marketing LLC

PSEG Energy Resources and Trade LLC

EnerNOC, Inc.

Monitoring Analytics, LLC

Constellation Energy Commodities Group, Inc.

PJM Interconnection, LLC PJM Interconnection, LLC

Dayton Power & Light Company (The)

Appalachian Power Company PJM Interconnection, LLC

Gabel and Associates

Customized Energy Solutions, Ltd.\*

Monitoring Analytics, LLC NRG Curtailment Solutions PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC New York Power Authority PJM Interconnection, LLC PJM Interconnection, LLC Dominion Virginia Power PJM Interconnection, LLC

Exelon Business Services Company, LLC

PJM Interconnection, LLC PJM Interconnection, LLC

Not Applicable Not Applicable

Transmission Owner

Other Supplier

Not Applicable

Not Applicable
Not Applicable

Not Applicable

Not Applicable Not Applicable

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Not Applicable
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Electric Distributor Generation Owner Generation Owner

Other Supplier
Other Supplier
Not Applicable

Other Supplier Not Applicable Not Applicable

Transmission Owner Transmission Owner

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Nix, Emma Noonan, Casey O'Neill, Jack Pakela, Greg Philips, Marjorie Pilong, Melissa Poulos, Greg Pratzon, David Romero-Luna, Joel Scarpignato, David Schmitt, Jeffrey	PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC DTE Energy Trading, Inc. Direct Energy Business, LLC PJM Interconnection, LLC CAPS GT Power Group Monitoring Analytics, LLC Calpine Energy Services, L.P. PJM Interconnection, LLC	Not Applicable Not Applicable Other Supplier Other Supplier Not Applicable Not Applicable Not Applicable Not Applicable Other Supplier Not Applicable Not Applicable Not Applicable Not Applicable Generation Owner Not Applicable
Skucas, Ruta Suh, Jung Sweeney, Rory Trayers, Barry Tribulski, Jennifer Wadsworth, Joseph Whitehead, Jeffrey Wilkie, Brian	Pierce Atwood  Noble Americas Energy Solutions LLC  RTO Insider  Citigroup Energy, Inc.  PJM Interconnection, LLC  Vitol Inc.  GT Power Group  Consolidated Edison Solutions, Inc	Not Applicable Other Supplier Not Applicable Other Supplier Not Applicable Other Supplier Not Applicable Other Supplier

## Web-Ex Attendees

Ainspan, Malcolm	Energy Curtailment Specialists, Inc.	Other Supplier
Anders, David	PJM Interconnection, LLC	Not Applicable
Barker, Jason	Exelon Business Services Company, LLC	Transmission Owner
Bazar, Kevin	PJM Interconnection, LLC	Not Applicable
Beaudin, Anik	Brookfield Energy Marketing LP	Other Supplier
Bennett, Stephen	PJM Interconnection, LLC	Not Applicable
Bolan, Martin	FirstEnergy Solutions Corp.	Transmission Owner
Boyle, Glen	PJM Interconnection, LLC	Not Applicable
Britt, Debbie	North Carolina Electric Membership Corporation	Electric Distributor
Brodbeck, John	EDP Renewables North America, LLC	Other Supplier
Brown, Rich	PJM Interconnection, LLC	Not Applicable
Brown, William	VECO Power Trading	Not Applicable
Bruno, Joshua	PJM Interconnection, LLC	Not Applicable
Bryson, Mike	PJM Interconnection, LLC	Not Applicable
Budney, Dave	PJM Interconnection, LLC	Not Applicable
Burlew, Jim	PJM Interconnection, LLC	Not Applicable
Campbell, Bruce	EnergyConnect, Inc.	Other Supplier
Carmean, Greg	OPSI	Not Applicable
Carpenter, Christopher	DC Energy Mid-Atlantic, LLC	Other Supplier
Carroll, Rebecca	PJM Interconnection, LLC	Not Applicable





Cawley, Troy Cham, Edrissa Chen, Jennifer Chintapalli, Raj

Chocarro Aguirrebengoa, Iker

Cocco, Michael Cockrell, Justin Coyne, Suzanne Croop, Danielle Crystle, Gil

Cummings, Bridgid Currier, Jeff Dasher, Brett

Daugherty, Suzanne
Daugherty, Suzanne
Davis, Elizabeth
Davis, James
DeLosa, Joseph
Depillo, Raymond
Dillon, Matthew
Dolan, James

Dolan, Ryan Domian, Christin Drauschak, Lisa Driscoll, Mary Ellen Dugan, Chuck

Egan, Chuck
Egan, Amanda
Ellen Driscoll, Mary
Endress, Eric
Fabiano, Janell
Fan, Zhenyu
Feierabend, Rick

Fitch, Neal Fitzpatrick, Brian Gahimer, Mike Garbini, Marjorie Gebolys, Debbie Genuario, Gabrielle Giacomoni, Anthony

Gilani, Rehan Glazer, Craig Gluck, Jim PJM Interconnection, LLC Tradewind Energy, Inc.

Natural Resources Defense Council

Galt Power Inc.

E.ON Climate & Renewables North America, Inc.

Old Dominion Electric Cooperative

DC Energy, LLC

PJM Interconnection, LLC
PJM Interconnection, LLC
UGI Development Company
PJM Interconnection, LLC
Dominion Virginia Power
Energy Authority, Inc. (The)
PJM Interconnection, LLC
PJM Interconnection, LLC
Talen Energy Marketing, LLC
Dominion Energy Marketing, Inc.

PSEG Energy Resources and Trade LLC

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

DE Public Service Commission

Mitsubishi Electric Power Products Inc.

PJM Interconnection, LLC PJM Interconnection, LLC

East Kentucky Power Cooperative, Inc.

PJM Interconnection, LLC
Dominion Virginia Power
NRG Power Marketing LLC
PJM Interconnection, LLC

IN Office of Utility Consumer Counselor Potomac Electric Power Company Public Utilities Commission of Ohio (The)

PJM Interconnection, LLC PJM Interconnection, LLC ConEdison Energy, Inc. PJM Interconnection, LLC PJM Interconnection, LLC Not Applicable

Not Applicable Not Applicable

Other Supplier

**Generation Owner** 

Electric Distributor

Other Supplier

Not Applicable Not Applicable

Transmission Owner

Not Applicable
Not Applicable

Other Supplier

Not Applicable

Not Applicable Generation Owner

Generation Owner

Not Applicable

Other Supplier Generation Owner

Not Applicable

Other Supplier Not Applicable

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Not Applicable

Transmission Owner

Not Applicable
Not Applicable
Not Applicable

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Generation Owner Not Applicable

End User Customer Electric Distributor Not Applicable

Not Applicable
Not Applicable
Other Supplier

Not Applicable Not Applicable





Gorman, Kevin Greening, Michele Gresh, Leslie Hanser, Erik Harmon, Mike Hastings, David Hayik, Seth Haynes, Greg Heinle, Frederick Helms, Joseph Hoatson, Tom Hohenshilt, Jennifer Holdbrook, Ruth Holland, Cynthia Holland, Risa Holter, Natasha Hugee, Jacqulynn Hurwich, Mark Hyzinski, Tom

Jardot, Gina Jett, William Jha, Monica Kelly, Stephen Kenney, Susan Kharod, Ankit Kilgallen, Kevin Kimmel, David Kingston, Amber

Jain, Anshul

Janicki, Diane

Kinser, Cynthia Kormos, Mike Lapierre, Daniel LaRocque, Matthew Lee, Lori Murphy Lejcar, Jamie

Leopold, Chris

Liang-Nicol, Cecilia Libbos, Robin Lieberman, Steven Lind, Clarke Highlands Energy Group LLC (The)

PPL Electric Utilities Corp. dba PPL Utilities

PJM Interconnection, LLC

Michigan Public Service Commission

Union Electric Company d/b/a Ameren Missouri

Market Interconnection LLC Monitoring Analytics, LLC Energy Authority, Inc. (The) Office of the People's Counsel

Rainbow Energy Marketing Corporation

Riverside Generating, LLC Talen Energy Marketing, LLC

Northern Virginia Electric Cooperative New Jersey Board of Public Utilities

PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC Elliott Bay Energy Trading, LLC

GT Power Group Bruce Power Inc.

Boston Energy Trading & Marketing, LLC Essential Power Rock Springs, LLC Duke Energy Business Services LLC

PCI

Brookfield Energy Marketing LP PJM Interconnection, LLC PJM Interconnection, LLC Avangrid Renewables LLC PJM Interconnection, LLC

North Carolina Electric Membership Corporation

Tennessee Department of Agriculture Exelon Business Services Company, LLC

Brookfield Energy Marketing LP PJM Interconnection, LLC PJM Interconnection, LLC

Allegheny Electric Cooperative, Inc.

Appalachian Power Company

Monongahela Power Company d/b/a Allegheny

Power

FirstEnergy Solutions Corp. American Municipal Power, Inc.

**Powerex Corporation** 

Other Supplier

**Transmission Owner** 

Not Applicable
Not Applicable
Other Supplier

Not Applicable
Not Applicable
Other Supplier
End User Customer

Other Supplier
Other Supplier

Generation Owner
Electric Distributor
Not Applicable
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Other Supplier
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Other Supplier

Generation Owner Transmission Owner Generation Owner

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

Electric Distributor Not Applicable Transmission Owner

Other Supplier

Not Applicable Not Applicable Electric Distributor

Transmission Owner Transmission Owner Electric Distributor Transmission Owner

**Transmission Owner** 





Liu McKenna, Phyllis Lokhandwalla, Faizmin

Long, Glenn Mabry, David Mack, Amanda Mae Velasco, Cheryl Mancuso, Melanie Manning, James

Mariam, Yohannes Martin, Valerie Marton, David Marzewski, Skyler Matheson, Doug Maxwell, Melissa McAdams, Julius McAlister, Lisa McLaverty, Megan McMackin, Devin

Mendelsohn, Mark Metzler, Jakob Miller, John Nadel, Steven Nawaz, Zainab Norton, Chris O'Connell, Robert O'Hara, Brian

O'Hara, Christopher O'Hara, Christopher Olaleye, Michael Olinger, Robert Ondayko, Brock Pacella, Chris Park, Jinny Patel, Anita Patel, Keyur

Pelletier, Eveline Peoples, John Phillips, Darlene Piovesan, Lori Powers, Sean Price, Mark Price, Ruth Ann Public Service Electric & Gas Company

Dynegy

PJM Interconnection, LLC McNees Wallace & Nurick LLC

NextEra Energy Power Marketing, LLC

PJM Interconnection, LLC FirstEnergy Solutions Corp.

North Carolina Electric Membership Corporation Office of the Peoples Counsel for the District of

Columbia

The Federal Energy Regulatory Commission

FirstEnergy Solutions Corp. Monitoring Analytics, LLC

EnerNOC, Inc.

PJM Interconnection, LLC Red Wolf Trading, LLC

American Municipal Power, Inc. PJM Interconnection, LLC

**ITC Holdings** 

Noble Americas Gas & Power Corp.

Castleton Commodities Merchant Trading L.P.

Commonwealth Edison Company

PPL Electric Utilities Corp. dba PPL Utilities

NJ Board of Public Utilities American Municipal Power, Inc. PPGI Fund A/B Development, LLC Mercuria Energy America, Inc. PJM Interconnection, LLC PJM Interconnection, LLC

**Keystone Projects** 

Appalachain Power Company PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC

Hydro-Quebec

Duquesne Light Company PJM Interconnection, LLC Powerex Corporation Linde Energy Services, Inc. DC Energy Mid-Atlantic, LLC

Division of the Public Advocate of the State of

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

End User Customer

Flectric Distributor

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

Other Supplier Other Supplier Transmission Owner

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

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

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





Delaware

Prokop, Brenda Raghavan, Vijay Rajan, Abhijit Ramsey, James Rayhorn, Carolyn Riehl, John Robinson, Maria Robson, Matt

Rodriguez Reyes, Eric Rohrbach, John Rothey, Kristin Ruck, Andrew Rushing, Joe Rushing, Nathan Saini, Ishwar

Salaneck, Alexandra Sasser, Jonathan Schmatz, Peter Schneider, Jon Schum, Alice Schuyler, Ken Shah, Vijay Shanker, Roy Sillin, John Skucas, Ruta Snyder, Sue Souder, Rich

Stadelmeyer, Rebecca

Steckley, Paul Steele, Bob Stern, Alexander Stewart, Travis Stone, Andy Sturgeon, John Tangirala, Subha Tatum, Edward Thompson, Matthew Tibbetts, Maeve Tigue, John Tsao, Stephanie

Tyler, Catherine

ITC Mid-Atlantic Development LLC PSEG Energy Resources and Trade LLC **Dominion Resources** Suffolk Fund LLC

Dominion Virginia Power

The Federal Energy Regulatory Commission

Advanced Energy Economy, Inc.

SESCO Enterprises LLC

NextEra Energy Power Marketing, LLC Southern Maryland Electric Cooperative

American Municipal Power, Inc.

PSEG Energy Resources and Trade, LLC

PJM Interconnection, LLC CPV Maryland, LLC Macquarie Energy LLC Monitoring Analytics, LLC

Customized Energy Solutions, Ltd.\* PSEG Energy Resources and Trade LLC

FirstEnergy Solutions Corp.

Illinois Municipal Electric Agency PJM Interconnection, LLC PJM Interconnection, LLC H.Q. Energy Services (U.S.), Inc.

The Federal Energy Regulatory Commission

Pierce Atwood

PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC Brookfield Energy Marketing LP Acorn Energy Trading, LLC

Public Service Electric & Gas Company

Gable and Associates PJM Interconnection, LLC Duke Energy Carolinas, LLC

**ABB** 

American Municipal Power

XO Energy Pierce Atwood

New York State Electric & Gas Corporation

**SPGlobal** 

Monitoring Analytics

Other Supplier

Other Supplier Not Applicable

Other Supplier

Not Applicable Not Applicable

Not Applicable

Other Supplier

**Generation Owner Electric Distributor** 

**Electric Distributor** 

Other Supplier Not Applicable

**Generation Owner** 

Other Supplier Not Applicable Not Applicable

**Transmission Owner** 

**Transmission Owner** Electric Distributor

Not Applicable Not Applicable

Other Supplier

Not Applicable Not Applicable

Not Applicable

Not Applicable Not Applicable

Other Supplier Other Supplier

**Transmission Owner** 

Not Applicable

Not Applicable Other Supplier Not Applicable

**Electric Distributor** Other Supplier Not Applicable

Other Supplier Not Applicable

Not Applicable

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VanderLaan, William

Vayda, Brian

Velasco, Cheryl Mae Villeneuve, Alexandre

Vu, JohnBinh Walter, Laura Ward, Michael Warshel, Kim Wei, Jane

Wicks, Tonja

Wiegand-Jackson, Laurie

Wilhite, Chad Williams, Amber Williams, Stanley Wilmoth, Emily Wilson, Bram Wilson, James Wood, Gordon

Xu, Xu

Wright, James

Illinois Municipal Electric Agency Borough of Park Ridge, NJ PJM Interconnection, LLC MAG Energy Solutions, Inc.

Other

PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC Monitoring Analytics, LLC Duquesne Light Company

North America Power Partners LLC

FirstEnergy Solutions Corp.

New York State Electric & Gas Corporation

PJM Interconnection, LLC Dominion Virginia Power

Diamond State Generation Partners, LLC

Wilson Energy Economics ETC Endure Energy L.L.C. Wilson Energy Economics PJM Interconnection, LLC Electric Distributor Electric Distributor

Not Applicable
Other Supplier
Not Applicable

Not Applicable Not Applicable

Not Applicable Not Applicable

Transmission Owner

Other Supplier

**Transmission Owner** 

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

Not Applicable

Author: Christina Stotesbury

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