

As of September 22, 2021

Markets & Reliability Committee Webex Only September 29, 2021 9:00 a.m. – 1:15 p.m. EPT

Administration

Stu Bresler and Dave Anders welcomed stakeholders and provided the Anti-trust, Code of Conduct, and Meeting Participation announcements.

Consent Agenda

Items A and B were **approved/endorsed** by acclamation with no objections or abstentions:

- A. Minutes of the August 25, 2021 meeting of the Markets and Reliability Committee (MRC).
- B. Revisions to the Regional Transmission and Energy Scheduling Practices document.

Endorsements

1. Energy Price Formation Charter

Susan Kenney reviewed proposed revisions to the EPFSTF Charter. Following discussion, the proposed revisions were **approved** in a sector-weighted vote with 2.88 in favor (note: the approval threshold for Charter revisions is simple majority).

Issue Tracking: Operating Reserve Demand Curve & Transmission Constraint Penalty Factors

2. Natural Gas and Electric Markets Issue Charge

Jim Davis, Dominion Energy, reviewed a Problem Statement and Issue Charge related to natural gas and electric market coordination. Greg Poulos, CAPS, moved on behalf of the New Jersey Division of Rate Counsel, and seconded on behalf of the Delaware Division of the Public Advocate, deferring voting on the proposed Issue Charge until the December, 2021 MRC meeting. The motion <u>failed</u> in a sector-weighted vote with 2.50 in favor. Following discussion, the proposed Issue Charge was <u>approved</u> in a sector-weighted vote with 4.26 in favor.

3. Market Suspension

Stefan Starkov reviewed proposed Operating Agreement (OA) and Tariff revisions to address rules related to market suspension. David Scarpignato, Calpine, moved and Becky Robinson, Vistra, seconded deferring voting on the proposed OA and Tariff revisions until such time as the Market Implementation Committee (MIC) has considered and voted upon (either affirmatively or negatively) supplemental procedures that would govern in the event of a longer-term market suspension, which could then be added to the existing proposal. The motion **passed** in a sector-weighted vote with 4.05 in favor. It was noted that the substance of the posted proposed friendly amendment will be reviewed in the upcoming MIC deliberations.

Issue Tracking: Rules Related to Market Suspension



- 4. Initial Margining Solution
 - A. Anita Patel provided an update on the conclusion of the Financial Risk Mitigation Senior Task Force (FRMSTF).
 - B. Jessica Troiano reviewed proposed Tariff revisions supporting the FRMSTF endorsed proposal.

Mark Hurwich, Elliot Bay, offered a proposed friendly amendment to the proposed Tariff revisions on p. 50 as highlighted below:

For Market Participant customer accounts for which FTR bids have been submitted into the current FTR auction, if the Market Participant's FTR Credit Requirement exceeds its credit available for FTRs as a result of the mark to auctionrequirements for the Market Participant's portfolio of FTRs in the tentative cleared solution for an FTR auction (or auction round), PJM shall issue a Collateral Call to the Market Participant, and the Market Participant fulfill

Adrien Ford, ODEC, offered a proposed friendly amendment to the proposed Tariff revisions capture "70/30" weighting of the weighted aggregation method. This was captured by inserting "(30%)" after "straight sum", and "(70%)" after "weighted root sum of squares" in the last sentence in the following paragraph on p. 46:

(i) FTR Obligations IM

Initial margin values for Financial Transmission Right Obligations shall be determined utilizing a historical simulation value-at-risk methodology that calculates the size and value at risk of the applicable FTR portfolio based on a defined confidence interval and subject to a weighted aggregation method that is represented by a straight sum for long term positions and a combination of straight sum and weighted root sum of squares for balance of planning period positions.

There were no objections to either proposed amendment, and therefore both of these proposed amendments were incorporated into the proposed Tariff revisions.

- C. James Ramsey, Perast Capital, and Matt Holstein, Duke Energy, discussed perspectives on the Main Motion.
- D. Greg Poulos, on behalf of New Jersey Division of the Rate Counsel, indicated his intention to move the PJM Proposal (FRMSTF Package A) as an alternative proposal should the main motion fail.

Following discussion, the main motion (as amended) **passed** in a sector-weighted vote with 3.42 in favor. The committee voted to sunset the FRMSTF by acclamation with no objections or abstentions.

Issue Tracking: Financial Risk Mitigation



First Readings

5. <u>Resource Adequacy Charter</u>

Dave Anders reviewed a proposed Charter for a new Resource Adequacy Sr. Task Force to address resource adequacy topics discussed in the Capacity Workshops. The committee will be asked to approve the proposed Charter at its next meeting.

6. 2021 Reserve Requirement Study Results

Patricio Rocha Garrido reviewed the 2021 Reserve Requirement Study preliminary results (IRM, FPR). The committee will be asked to endorse the study results at its next meeting.

7. Behind the Meter Generation Business Rules on Status Changes

Theresa Esterly reviewed a proposed updates addressing behind the meter generation business rules on status changes. The committee will be asked to endorse the proposed updates and corresponding Manual and Tariff revisions at its next meeting.

Issue Tracking: Behind the Meter Generation Business Rules on Status Changes

8. Incremental & No Load Energy Offer

Tom Hauske reviewed proposed revisions in Manual 15: Cost Development Guidelines, the OA, and the Tariff to address incremental and no load energy offers. The committee will be asked to endorse the revisions at its next meeting.

9. Solar-Battery Hybrid Resources

Andrew Levitt reviewed a proposed solution package to address various aspects of market participation by solar-battery hybrid resources. The committee will be asked to endorse the proposed solution and corresponding Tariff revisions at its next meeting. Issue Tracking: Solar-Battery Hybrid Resources

10. <u>Undefined Regulation Mileage Ratio Calculation</u>

- A. Michael Olaleye reviewed the PJM proposal addressing the undefined regulation mileage ratio calculation.
- B. Adrien Ford, ODEC, noted that she will offer the IMM Proposal as an alternative motion.

The committee will be asked to endorse a proposed solution and corresponding Manual and Tariff revisions at its next meeting.

Issue Tracking: Undefined Regulation Mileage Ratio Calculation



11. Energy Efficiency (EE) Addback

Jeff Bastian provided a first read of the IMM/PJM proposal addressing the calculation of the EE Addback. The committee will be asked to endorse the proposed solution and corresponding Manual revisions at its next meeting.

Issue Tracking: Energy Efficiency Addback

- 12. ARR/FTR Market Task Force Update
 - A. Dave Anders and Brian Chmielewski provided an overview of the activities of the task force and proposals developed through the ARR/FTR Market Task Force. Brian Chmielewski provided additional detail on the PJM/Joint Stakeholder proposal.
 - B. Joe Bowring, IMM, provided additional detail on the IMM proposal. Erik Heinle, Office of the Peoples' Counsel for the District of Columbia (DCOPC), and David Canter, AEP, summarized the DCOPC and AEP proposals, respectively.

The committee will be asked to endorse a proposed solution and corresponding Manual and Tariff revisions at its next meeting.

Issue Tracking: ARR/FTR Market Review

Future Agenda Items

No new future agenda items were identified.

Future Meeting Dates and Materials			Materials Due to Secretary	Materials Published
Date	Time	Location		
October 20, 2021	9:00 a.m.	WebEx	October 8, 2021	October 13, 2021
November 17, 2021	9:00 a.m.	WebEx	November 5, 2021	November 10, 2021
December 15, 2021	9:00 a.m.	WebEx	December 3, 2021	December 8, 2021

Author: D. Anders

Meeting Attendance

Chair/Secretary

Last Name	First Name	Company	Sector
Bresler	Stu	PJM Interconnection, LLC	Not Applicable
Anders	David	PJM Interconnection, LLC	Not Applicable

Voting Attendees

Last Name	First Name	Company Name	Sector
Barker	Jason	Exelon Business Services Company, LLC	Transmission Owner
Benchek	Jim	American Transmission Systems, Inc.	Transmission Owner



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Bleiweis	Bruce	DC Energy, LLC	Other Supplier
Borgatti	Michael	Rep'g. Hazleton Generation LLC	Generation Owner
Borgatti	Michael	Rep'g. Jersey Green Energy, LLC	Other Supplier
Borgatti	Michael	Rep'g. Leeward Asset Management, LLC	Generation Owner
Borgatti	Michael	Rep'g. Longview Power, LLC	Generation Owner
Borgatti	Michael	Rep'g. Moxie Freedom LLC	Generation Owner
Borgatti	Michael	Rep'g. Newark Energy Center, LLC	Generation Owner
Borgatti	Michael	Rep'g. NextEra Energy Marketing, LLC	Other Supplier
Borgatti	Michael	Rep'g. Recurrent Energy, LLC	Other Supplier
Borgatti	Michael	Rep'g. York County Solid Waste and Refuse Authority	Generation Owner
Brodbeck	John	EDP Renewables North America LLC	Generation Owner
Bruce	Susan	Rep'g. Air Products & Chemicals, Inc.	End-Use Customer
Bruce	Susan	Rep'g. Cleveland-Cliffs Steel LLC	End-Use Customer
			End-Use Customer
Bruce	Susan	Rep'g. Gerdau Ameristeel Energy, Inc.	
Bruce	Susan	Rep'g. Industrial Energy Users-Ohio	Other Supplier
Bruce	Susan	Rep'g. Kimberly-Clark Corporation	Generation Owner
Bruce	Susan	Rep'g. Lehigh Portland Cement Company	End-Use Customer
Bruce	Susan	Rep'g. Letterkenny Industrial Development Authority - PA	Electric Distributor
Bruce	Susan	Rep'g. Linde Inc.	End-Use Customer
Bruce	Susan	Rep'g. MeadWestvaco Corporation	End-Use Customer
Bruce	Susan	Rep'g. Messer LLC	End-Use Customer
Bruce	Susan	Rep'g. Procter & Gamble Paper Products Company (The)	End-Use Customer
Bruce	Susan	Rep'g. Trustees of the University of Pennsylvania	End-Use Customer
Bruce	Susan	Rep'g. Wellsboro Electric Company	Electric Distributor
Canter	David	Appalachian Power Company	Transmission Owner
Chang	Sean	Shell Energy North America (US), L.P.	Other Supplier
Chen	Yan	Star Jasmine Houston LLC	Other Supplier
Chu	Michael	Forest Investment Group, LLC	Other Supplier
Davis	James		Transmission Owner
		Virginia Electric & Power Company	
Domian	Christin	Duquesne Light Company	Transmission Owner
Duensing	Allison	Saracen Energy East LP	Other Supplier
Dugan	Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Fazio	Danielle	Engelhart CTP (US) LLC	Other Supplier
Foladare	Kenneth	Geenex Solar LLC	Other Supplier
Ford	Adrien	Old Dominion Electric Cooperative	Electric Distributor
Fuess	Christian	Rep'g. Diamond State Generation Partners, LLC	Generation Owner
Fuess	Christian	Rep'g. Icetec.com, Inc.	Other Supplier
Fuess	Christian	Rep'g. Kuehne Chemical Company, Inc.	End-Use Customer
Fuess	Christian	Rep'g. NextPower III US Holdco Inc.	Generation Owner
Fuess	Christian	Rep'g. PBF Power Marketing, LLC	End-Use Customer
Garnett	Bryan	Duke Energy Business Services LLC	Transmission Owner
Hepplewhite	Peter	Wrigley Capital LLC	Other Supplier
Hoatson	Tom	Riverside Generating Company, L.L.C.	Generation Owner
Hohenshilt	Jennifer	Talen Energy Marketing, LLC	Generation Owner
Horstmann	John	Dayton Power & Light Company (The)	Transmission Owner
Hurwich	Mark	Elliott Bay Energy Trading, LLC	Other Supplier
Hyzinski Hyzinski	Thomas	Rep'g. Carroll County Energy LLC Rep'g. Dynegy Marketing and Trade, LLC	Generation Owner Generation Owner
Hyzinski	Thomas		
Hyzinski	Thomas	Rep'g. GenOn Energy Management, LLC	Generation Owner
Islam	Lubaba	Rockland Electric Company	Transmission Owner
Janicki	Diane	Boston Energy Trading and Marketing LLC	Other Supplier
Jardot	Gina	NRG Power Marketing, LLC	Generation Owner
Johnson	Carl	Rep'g. Allegheny Electric Cooperative, Inc.	Electric Distributor
Johnson	Carl	Rep'g. Blue Ridge Power Agency, Inc.	Electric Distributor
Johnson	Carl	Rep'g. Borough of Chambersburg	Electric Distributor
Johnson	Carl	Rep'g. Borough of Mont Alto, Pennsylvania	Electric Distributor
Johnson	Carl	Rep'g. Buckeye Power, Inc.	Electric Distributor
Johnson	Carl	Rep'g. Central Virginia Electric Cooperative	Electric Distributor
Johnson	Carl	Rep'g. City of Dover, Delaware	Electric Distributor
Johnson	Carl	Rep'g. Delaware Municipal Electric Corporation, Inc.	Electric Distributor
Johnson	Carl	Rep'g. Easton Utilities Commission	Electric Distributor
	0011	Rep'g. Energy Cooperative Association of Pennsylvania (The)	



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Johnson	Carl	Rep'g. Galt Power, Inc.	Other Supplier
Johnson	Carl	Rep'g. Hagerstown Light Department	Electric Distributor
Johnson	Carl	Rep'g. Illinois Municipal Electric Agency	Electric Distributor
Johnson	Carl	Rep'g. Indiana Municipal Power Agency	Electric Distributor
Johnson	Carl	Rep'g. Michigan Public Power Agency	Electric Distributor
Johnson	Carl	Rep'g. North Carolina Electric Membership Corporation	Electric Distributor
Johnson	Carl	Rep'g. North Carolina Municipal Power Agency Number 1	Other Supplier
Johnson	Carl	Rep'g. Northern Illinois Municipal Power Agency	Electric Distributor
Johnson	Carl	Rep'g. Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Johnson	Carl	Rep'g. Thurmont Municipal Light Company	Electric Distributor
Johnson	Carl	Rep'g. Town of Williamsport (The)	Electric Distributor
	Carl	Rep'g. WPPI Energy	
Johnson			Other Supplier
Kauffman	Brian	Enel X North America, Inc.	Other Supplier
Keenan	Matthew	Elwood Energy, LLC	Generation Owner
Kelly	Stephen	Brookfield Renewable Trading and Marketing LP	Other Supplier
Kilgallen	Kevin	Avangrid Renewables, LLC	Generation Owner
Li	Grace	Altro Power LLC	Other Supplier
Lieberman	Steven	American Municipal Power, Inc.	Electric Distributor
Pakela	Greg	DTE Energy Trading, Inc.	Other Supplier
Pelletier	Eveline	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Poulos	Greg	Rep'g. Consumer Protection and Advocate Division of the Tennessee Attorney General	End-Use Customer
Poulos	Greg	Rep'g. Delaware Division of the Public Advocate	End-Use Customer
Poulos	Greg	Rep'g. Illinois Citizen Utility Board	End-Use Customer
Poulos	Greg	Rep'g. Indiana Office of Utility Consumer Counselor (IN OUCC)	End-Use Customer
Poulos	Greg	Rep'g. Maryland Office of People's Counsel	End-Use Customer
Poulos	0	Rep'g. Michigan Department of Attorney General, Environment, Natural	End-Use Customer
Foulos	Greg	Resources, & Agriculture Division	End-Ose Customer
Poulos	Greg	Rep'g. New Jersey Division of Rate Counsel	End-Use Customer
Poulos	Greg	Rep'g. Office of the Attorney General, Kentucky	End-Use Customer
Poulos	Greg	Rep'g. Office of the People's Counsel for the District of Columbia	End-Use Customer
Poulos	Greg	Rep'g. Ohio Consumers' Counsel	End-Use Customer
Poulos	Greg	Rep'g. Pennsylvania Office of Consumer Advocate	End-Use Customer
Poulos	Greg	Rep'g. Public Staff - North Carolina Utilities Commission	End-Use Customer
Poulos	Greg	Rep'g. Virginia Division of Consumer Counsel	End-Use Customer
Poulos	Greg	Rep'g. West Virginia Consumer Advocate Division	End-Use Customer
Prokop	Brenda	ITC Interconnection LLC	Transmission Owner
Ramsey	James	Perast Fund LP	Other Supplier
Rohrbach	John	Rep'g. Big Savage, LLC	Generation Owner
Rohrbach	John	Rep'g. Kentucky Municipal Energy Agency	Electric Distributor
Rohrbach	John	Rep'g. Southern Maryland Electric Cooperative, Inc.	Electric Distributor
Rohrbach	John	Rep'g. Wabash Valley Power Association, Inc.	Electric Distributor
Rooney	Alexa	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Scarpignato	David	Calpine Energy Services, L.P.	Generation Owner
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Sidhom	Noha	Rep'g. Appian Way Energy Partners MidAtlantic, LLC Rep'g. SESCO Enterprises, LLC	Other Supplier
Sidhom	Noha		Other Supplier
Silveira	Fabiano	Strom Power, LLC	Other Supplier
Skucas	Ruta	Rep'g. Alphataraxia Palladium LLC	Other Supplier
Skucas	Ruta	Rep'g. Ames Energy, LLC	Other Supplier
Skucas	Ruta	Rep'g. Big Bend Trading, LLC	Other Supplier
Skucas	Ruta	Rep'g. BJ Energy, LLC	Other Supplier
Skucas	Ruta	Rep'g. Boston Energy Group, Inc.	Other Supplier
Skucas	Ruta	Rep'g. Greene Energy NE LLC	Other Supplier
Skucas	Ruta	Rep'g. Hexis Energy Trading, LLC	Other Supplier
Skucas	Ruta	Rep'g. MAG Energy Solutions, Inc.	Other Supplier
Skucas	Ruta	Rep'g. Monterey MA LLC	Other Supplier
Skucas	Ruta	Rep'g. Precept Power LLC	Other Supplier
Skucas	Ruta	Rep'g. Pure Energy, Inc.	Other Supplier
Skucas	Ruta	Rep'g. Red Wolf TX2, LLC	Other Supplier
Skucas	Ruta	Rep'g. Taller Cube, LLC	Other Supplier
Skucas	Ruta	Rep'g. Velocity American Energy Master I, L.P.	Other Supplier
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Stern	Alex	Public Service Electric & Gas Company	Transmission Owner
Stewart	Travis	Rep'g. Eagle Point Power Generation, LLC	Generation Owner
Stewart	Travis	Rep'g. Energy Harbor LLC	Generation Owner
Swalwell	Bradley	Tangent Energy Solutions, Inc.	Other Supplier
Vayda	Brian	Rep'g. Borough of Butler, Butler Electric Division	Electric Distributor
Vayda	Brian	Rep'g. Borough of Lavallette, New Jersey	Electric Distributor
Vayda	Brian	Rep'g. Borough of Madison, New Jersey	Electric Distributor
Vayda	Brian	Rep'g. Borough of Milltown, New Jersey	Electric Distributor
Vayda	Brian	Rep'g. Borough of Park Ridge, New Jersey	Electric Distributor
Vayda	Brian	Rep'g. Borough of Pemberton, New Jersey	Electric Distributor
Vayda	Brian	Rep'g. Borough of Seaside Heights, New Jersey	Electric Distributor
Vayda	Brian	Rep'g. Borough of South River, New Jersey	Electric Distributor
Vayda	Brian	Vineland Municipal Electric Utility	Electric Distributor
Wadsworth	Joe	Vitol Inc.	Generation Owner
Whitehead	Jeffrey	Rep'g. Eastern Generation, LLC	Generation Owner
Whitehead	Jeffrey	Rep'g. Essential Power Rock Springs, LLC	Generation Owner
Whitehead	Jeffrey	Rep'g. Neptune Regional Transmission System, LLC	Transmission Owner
Whitehead	Jeffrey	Rep'g. Wheelabrator Falls Inc.	Generation Owner

Non-Voting Attendees

Last Name	First Name	Company Name	Sector
Adams	Sean	Public Service Electric & Gas Company	Transmission Owner
Anderson	Jared	Platts	Not Applicable
Bagot	Nancy	Electric Power Supply Association	Not Applicable
Baker	Laura	Stone, Mattheis, Xenopoulos & Brew, Pc	Not Applicable
Berton	Tyler	Appalachian Power Company	Transmission Owner
Bowring	Joe	Monitoring Analytics, LLC	Not Applicable
Brady	George	Ohio Valley Electric Corporation	Transmission Owner
Camp	Lewis	Duke Energy Business Services LLC	Transmission Owner
Carmean	Gregory	OPSI	Not Applicable
Christopher	Mahila	Public Utilities Commission Of Ohio	Not Applicable
Clark	Barrett	DC Energy, LLC	Other Supplier
Соссо	Michael	Old Dominion Electric Cooperative	Electric Distributor
Crystle	Gil	UGI Energy Sevices, LLC	Other Supplier
Dalessandris	Lou	Energy Harbor LLC	Generation Owner
Davies	Steve	Indiana Utility Regulatory Commission	Not Applicable
Delosa	Joe	New Jersey Board Of Public Utilities	Not Applicable
Dillon	Matt	UGI Energy Sevices, LLC	Other Supplier
Eaker	Katie	Tenaska Power Services Co.	Generation Owner
Elkins	Rachel	Energy Harbor LLC	Generation Owner
Erickson	Christina	Illinois Commerce Commission	Not Applicable
Filomena	Guy	Customized Energy Solutions, Ltd.	Not Applicable
Fink	Regan	Pine Gate Mid-Atlantic, LLC	Other Supplier
Fishback	Luke	Affirmed Energy LLC	Other Supplier
Fitch	Neal	Nrg Power Marketing, LLC	Generation Owner
Foster	Denise	East Kentucky Power Cooperative Inc.	Transmission Owner
Fuerst	Gary	Energy Harbor LLC	Generation Owner
Gates	Terry	Appalachian Power Company	Transmission Owner
Gebolys	Debbie	Public Utilities Commission Of Ohio	Not Applicable
Gilani	Rehan	Consolidated Edison Energy, Inc.	Other Supplier
Good	Megan	Pennsylvania Public Utilities Commision	Not Applicable
Gorman	Brad	FirstEnergy Corp	Not Applicable
Gorman	Kevin	The Highlands Energy Group, LLC	Other Supplier
Grau	Patrick	Apogee Energy Trading LLC	Other Supplier
Greiner	Gary	Public Service Electric & Gas Company	Transmission Owner
Guntle	Vince	American PowerNet Management, L.P.	End-Use Customer
Haas	Howard	Monitoring Analytics, LLC	Not Applicable
Hastings	David	DHAST Co.	Not Applicable
Heinle	Erik	Office of the People's Counsel for the District of Columbia	End-Use Customer
Heitmeyer	Chad	Appalachian Power Company	Transmission Owner
Herbert	Sebastian	DC Energy, LLC	Other Supplier



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Hicks	Dave	Perast Fund LP	Other Supplier
Holstein	Matt	Duke Energy Carolinas, LLC	Other Supplier
Horning	Lynn	Customized Energy Solutions, Ltd.	Not Applicable
Hull	Gerit	American Municipal Power, Inc.	Electric Distributor
Huntoon	Steve	Chesapeake Transmission, LLC	Other Supplier
ller	Art	Indiana Office of Utility Consumer Counselor (IN OUCC)	End-Use Customer
Jett	William	Duke Energy Business Services LLC	Transmission Owner
Johnston	David	Indiana Utility Regulatory Commissio	Not Applicable
Kalle	Ibrahima	Tibiri Energy Group	Not Applicable
Khan	Bakhtawar	Gabel Associates	Not Applicable
Kilgallen	Kevin	Avangrid Renewables, LLC	Generation Owner
Klein	Abram	Appian Way Energy Partners MidAtlantic, LLC	Other Supplier
Kothakapu	Rakesh	Illinois Municipal Electric Agency	Electric Distributor
Laios	Takis	Appalachian Power Company	Transmission Owner
Lawson	Ryen	Dominion Energy Generation Marketing, Inc.	Generation Owner
Mariam	Yohannes	Office of the People's Counsel for the District of Columbia	End-Use Customer
Martin	Aaron	CMS Energy Resource Management Company	Other Supplier
Martin	Valerie	FERC	Not Applicable
Mcardle	Brian	NextEra Energy Resources, LLC	Not Applicable
Mcdewell	Christian	Pennsylvania Public Utility Commission	Not Applicable
Mcneil	Justin	Kentucky Public Service Commission	Not Applicable
Midgley	Sharon	Exelon Business Services Company, LLC	Transmission Owner
Miller	John	Commonwealth Edison Company	Transmission Owner
Mok	Alan	Duke Energy Business Services LLC	Transmission Owner
Nix	Emma	Gabel Associates	Not Applicable
Norton	Chris	American Municipal Power, Inc.	Electric Distributor
Olinger	Robert	Gen Ops, LLC	Other Supplier
Ondayko	Brock	Appalachian Power Company	Transmission Owner
Paff	Tom	Duke Energy Business Services LLC	Transmission Owner
Peoples	John	Duquesne Light Company	Transmission Owner
Phillips	Jennifer	Big Sandy Peaker Plant, LLC	Generation Owner
Price	Mark	DC Energy, LLC	Other Supplier
Price	Ruth	Delaware Divison Of The Public Advocate	End-Use Customer
Procuniar	Jason	Buckeye Power, Inc.	Electric Distributor
Pulin	Shah	Exelon Business Services Company, LLC	Transmission Owner
Rahimi	Farrokh	Open Access Technology International, Inc.	Not Applicable
Rainey	Frank	PEI Power LLC	Generation Owner
Ramsey	James	Perast Fund LP	Other Supplier
Redwine	Arlo	FERC	Not Applicable
Roberts	Jackie	West Virginia Consumer Advocate Division	End-Use Customer
Robinson	Becky	Vistra Corporation	Not Applicable
Robson	Matt	SESCO Enterprises, LLC	Other Supplier
Rodriguez	Tomas	OPSI	Not Applicable
Rumsey	Amanda	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Rutigliano	Tom	NRDC	Not Applicable
Sasser	Jonathan	Customized Energy Solutions, Ltd.	Not Applicable
Segner	Sharon	LS Power	Not Applicable
Shanker	Roy	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Sillin	John	FERC	Not Applicable
Skumanich	William	RTR Energy Solutions, LLC	Not Applicable
Smith	Rob	National Grid Renewables, LLC	Not Applicable
Solomon	Greg	NextEra Energy Marketing, LLC	Other Supplier
Sotkiewicz	Paul	E-Cubed Policy Associates	Not Applicable
Squibb	Bill	Ohio Valley Electric Corporation	Transmission Owner
Stanley	Chuck	ION Group	Not Applicable
Steele	Robert	Hyllgarth Energy	Not Applicable
Stone	Andy	Gabel Associates	Not Applicable
Stuchell	Jeff	Energy Harbor LLC	Generation Owner
Sturgeon	John	Duke Energy Business Services LLC	Transmission Owner
Svenson	Heather	Public Service Electric & Gas Company	Transmission Owner
Sweeney	Rory	GT Power Group, LLC	Not Applicable
Taylor	Robert	Exelon Business Services Company, LLC	Transmission Owner



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Theodore	Sharon	Electric Power Supply Association	Not Applicable
Thomas	Amber	Exelon Business Services Company, LLC	Transmission Owner
Thomas	Sharon	Energy Storage Association	Not Applicable
Tibbetts	Maeve	K&L Gates	Not Applicable
Tynes	Lisa	Energy Harbor LLC	Generation Owner
Vanderlaan	Bill	Illinois Commerce Commission	Not Applicable
Wehnes	Kathleen	Maryland Department Of The Environment	Not Applicable
Weigel	Shannon	Edison Energy	Not Applicable
Wisersky	Megan	Madison Gas & Electric	Not Applicable
Yeoman	Ryan	Michigan Public Service Commission	Not Applicable
Yoder	Michael	RTO Insider	Not Applicable
Zemanek	Kevin	Buckeye Power, Inc.	Electric Distributor
Zuretti	Bill	Electric Supply Association	Not Applicable

PJM Attendees

Last Name	First Name	Company Name	Sector
Anders	Dave	PJM Interconnection, LLC	Not Applicable
Asthana	Manu	PJM Interconnection, LLC	Not Applicable
Baizman	Aaron	PJM Interconnection, LLC	Not Applicable
Baker	Scott	PJM Interconnection, LLC	Not Applicable
Bastian	Jeff	PJM Interconnection, LLC	Not Applicable
Berner	Aaron	PJM Interconnection, LLC	Not Applicable
Blackwell	Terry	PJM Interconnection, LLC	Not Applicable
Bloczynski	Nigeria	PJM Interconnection, LLC	Not Applicable
Boyle	Glen	PJM Interconnection, LLC	Not Applicable
Bresler	Stu	PJM Interconnection, LLC	Not Applicable
Bruno	Patrick	PJM Interconnection, LLC	Not Applicable
Bryson	Michael	PJM Interconnection, LLC	Not Applicable
Carroll	Rebecca	PJM Interconnection, LLC	Not Applicable
Chmielewski	Brian	PJM Interconnection, LLC	Not Applicable
Connell	Jason	PJM Interconnection. LLC	Not Applicable
Croop	Danielle	PJM Interconnection, LLC	Not Applicable
D'Antonio	Phil	PJM Interconnection, LLC	Not Applicable
Dent	Duane	PJM Interconnection, LLC	Not Applicable
Devita	Thomas	PJM Interconnection. LLC	Not Applicable
Disciullo	Nick	PJM Interconnection. LLC	Not Applicable
Drauschak	Lisa	PJM Interconnection, LLC	Not Applicable
Egan	Amanda	PJM Interconnection. LLC	Not Applicable
Endress	Eric	PJM Interconnection. LLC	Not Applicable
Esterly	Theresa	PJM Interconnection, LLC	Not Applicable
Eydeland	Alexander	PJM Interconnection, LLC	Not Applicable
Fabiano	Janell	PJM Interconnection. LLC	Not Applicable
Falin	Thomas	PJM Interconnection, LLC	Not Applicable
Farhat	Michelle	PJM Interconnection, LLC	Not Applicable
Fereshetian	Damon	PJM Interconnection, LLC	Not Applicable
Fioresi	Mark	PJM Interconnection, LLC	Not Applicable
Fitzpatrick	Brian	PJM Interconnection, LLC	Not Applicable
Flynn	Paul	PJM Interconnection, LLC	Not Applicable
Foley	Sheila	PJM Interconnection. LLC	Not Applicable
Frogg	Darrell	PJM Interconnection. LLC	Not Applicable
Glazer	Craig	PJM Interconnection, LLC	Not Applicable
Gluck	Jim	PJM Interconnection. LLC	Not Applicable
Graf	Walter	PJM Interconnection. LLC	Not Applicable
Greening	Michele	PJM Interconnection, LLC	Not Applicable
Guistwhite	Jeff	PJM Interconnection, LLC	Not Applicable
Guygnet	Douglas	PJM Interconnection. LLC	Not Applicable
Haque	Asim	PJM Interconnection, LLC	Not Applicable
Hauske	Thomas	PJM Interconnection, LLC	Not Applicable
Hawque	Asim	PJM Interconnection, LLC	Not Applicable
Heater	Megan	PJM Interconnection, LLC	Not Applicable
Herel	Suzanne	PJM Interconnection, LLC	Not Applicable



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Herman	Michael	PJM Interconnection, LLC	Not Applicable
Hickey	Michael	PJM Interconnection, LLC	Not Applicable
Hicks	Colleen	PJM Interconnection, LLC	Not Applicable
Horger	Timothy	PJM Interconnection, LLC	Not Applicable
Hough	Dennis	PJM Interconnection, LLC	Not Applicable
Hsia	Eric	PJM Interconnection, LLC	Not Applicable
Johnson	Jeanine	PJM Interconnection, LLC	Not Applicable
Kashem	Sharmin	PJM Interconnection, LLC	Not Applicable
Kazerooni	Hamid	PJM Interconnection, LLC	Not Applicable
Keech	Adam	PJM Interconnection, LLC	Not Applicable
Kelly	Gwen	PJM Interconnection, LLC	Not Applicable
Kenney	Susan	PJM Interconnection, LLC	Not Applicable
Lai	Erin	PJM Interconnection, LLC	Not Applicable
Lauterbach	Victoria	PJM Interconnection, LLC	Not Applicable
Levitt	Andrew	PJM Interconnection, LLC	Not Applicable
Lockwood	Dan	PJM Interconnection, LLC	Not Applicable
Lu	Chen	PJM Interconnection, LLC	Not Applicable
Mccomb	John	PJM Interconnection, LLC	Not Applicable
Mcelwaine	Kathy	PJM Interconnection, LLC	Not Applicable
Mcelwee	Steve	PJM Interconnection, LLC	Not Applicable
Mcglynn	Paul	PJM Interconnection, LLC	Not Applicable
McLaverty	Megan	PJM Interconnection, LLC	Not Applicable
Muhl	Nancy	PJM Interconnection, LLC	Not Applicable
Murphy Lee	Lori	PJM Interconnection, LLC	Not Applicable
O'Brien	Tom	PJM Interconnection, LLC	Not Applicable
O'Hara	Chris	PJM Interconnection, LLC	Not Applicable
Olaleye	Michael	PJM Interconnection, LLC	Not Applicable
Pacella	Chris	PJM Interconnection, LLC	Not Applicable
Patel	Anita	PJM Interconnection, LLC	Not Applicable
Pilong	Chris	PJM Interconnection, LLC	Not Applicable
Pilong	Melissa	PJM Interconnection, LLC	Not Applicable
Pincus	Steven	PJM Interconnection, LLC	Not Applicable
Robinson		PJM Interconnection, LLC	
	Evelyn Patricio		Not Applicable
Rocha		PJM Interconnection, LLC	Not Applicable
Salmon	Lisa	PJM Interconnection, LLC	Not Applicable
Schweizer	David	PJM Interconnection, LLC	Not Applicable
Seiler	Ken	PJM Interconnection, LLC	Not Applicable
Shields	Jeff	PJM Interconnection, LLC	Not Applicable
Snow	Jim	PJM Interconnection, LLC	Not Applicable
Souder	Dave	PJM Interconnection, LLC	Not Applicable
Souder	Michelle	PJM Interconnection, LLC	Not Applicable
Stadelmeyer	Rebecca	PJM Interconnection, LLC	Not Applicable
Starkov	Stefan	PJM Interconnection, LLC	Not Applicable
Stemetzki	Mike	PJM Interconnection, LLC	Not Applicable
Steven	Pincus	PJM Interconnection, LLC	Not Applicable
Stotesbury	Christina	PJM Interconnection, LLC	Not Applicable
Strella Wahba	Lauren	PJM Interconnection, LLC	Not Applicable
Tacka	Natalie	PJM Interconnection, LLC	Not Applicable
Tribulski	Jennifer	PJM Interconnection, LLC	Not Applicable
Troiano	Jessica	PJM Interconnection, LLC	Not Applicable
Watkin	Erik	PJM Interconnection, LLC	Not Applicable
Waweru	James	PJM Interconnection, LLC	Not Applicable
Wright	Dionne	PJM Interconnection, LLC	Not Applicable
Wynder	Michael	PJM Interconnection, LLC	Not Applicable