

**Markets & Reliability Committees**  
**PJM Conference and Training Center, Audubon, PA / WebEx**  
**December 21, 2022**  
**9:00 a.m. – 12:40 p.m. EPT**

## Administration

Stu Bresler and David Anders welcomed stakeholders and provided the Anti-trust, Code of Conduct, and Meeting Participation announcements. Stu Bresler provided a brief procedural update regarding an issue with respect to conduct of the 2024/2025 Base Residual Auction. He noted that full discussion and formal notice of consultation with the Members Committee pursuant to Tariff Section 9.2(b) and Transmission Owners pursuant to CTOA Section 7.5.1(ii) will be provided at the December 21, 2022 Members Committee meeting.

## Consent Agenda

Items A through E were **approved/endorsed** by acclamation with no objections and one abstention:

- A. Draft minutes of the November 16, 2022 meeting of the Markets and Reliability Committee (MRC).
- B. Proposed revisions to Manual 10: Pre-Scheduling Operations resulting from its periodic review.
- C. Proposed revisions to Manual 14D: Generator Operational Requirements resulting from its periodic review.
- D. Proposed revisions to Manual 27: Open Access Transmission Tariff Accounting resulting from its periodic review.
- E. Proposed clarifying Tariff and Operating Agreement (OA) revisions as endorsed by the Governing Documents Enhancements and Clarifications Subcommittee (GDECS).

## Endorsements

### 1. Energy and Reserve Market Circuit Breaker

- A. Adrien Ford, ODEC, moved and John Rohrbach, SMECO, seconded a Main Motion for a proposed circuit breaker solution package.
- B. David Scarpignato, Calpine, moved and Tom Hoatson, LS Power, seconded an Alternative Motion for a proposed circuit breaker solution package.

Following discussion the Main Motion **failed** in a sector-weighted vote with 2.88 in favor. The Alternate Motion also **failed** in a sector-weighted vote with 1.049 in favor.

[Issue Tracking: Operating Reserve Demand Curve \(ORDC\) & Transmission Constraint Penalty Factors](#)

### 2. Rules Related to Market Suspension

Stefan Starkov reviewed a proposed solution addressing the treatment of market suspensions. Following discussion, the proposed OA revisions were **endorsed** by acclamation with no objections or abstentions.

[Issue Tracking: Rules Related to Market Suspension](#)

### 3. Market Participant Default Flexibility

Colleen Hicks reviewed the proposed solution package addressing the alignment of PJM's authority in event of a default. Following discussion, the proposed Tariff and OA revisions were **endorsed** by acclamation with no objections or abstentions.

[Issue Tracking: Market Participant Default Flexibility](#)

## First Readings

### 4. Capacity Interconnection Rights for ELCC Resources

Brian Chmielewski reviewed proposed solution packages addressing Capacity Interconnection Rights (CIR) for ELCC Resources. Package sponsors were given an opportunity to provide supplemental comments. The committee will be asked to endorse a proposed solution package and corresponding Manual, Tariff and RAA revisions at its next meeting.

Adrien Ford noted that should no proposal be endorsed by the Planning Committee (PC), ODEC intends to move proposal "I" at the January 2023 MRC meeting as a Main Motion, and if a proposal other than "I" is endorsed by the PC, ODEC will move proposal "I" as an Alternate Motion.

[Issue Tracking: Capacity Interconnection Rights \(CIR\) for ELCC Resources](#)

### 5. Hybrid Resources Phase II

Danielle Croop reviewed the package detailing the Hybrid Resources Phase II solutions. The committee will be asked to endorse the proposed solution and corresponding Tariff and OA revisions at its next meeting.

[Issue Tracking: Solar-Battery Hybrid Resources](#)

### 6. Emerging Technology Forum (ETF) Charter

Danielle Croop reviewed proposed revisions to the Emerging Technologies Forum Charter. The committee will be asked to approve the proposed Charter at its next meeting.

### 7. Day-ahead Zonal Load Bus Distribution Factors

Amanda Martin reviewed a proposed solution package and associated revisions to Manual 11: Energy & Ancillary Services Market Operations, Manual 28: Operating Agreement Accounting, and Tariff Section 31.7 addressing the zonal load bus distribution factors. The committee will be asked to endorse the proposed solution package and corresponding Manual and Tariff revisions at its next meeting.

[Issue Tracking: Day-ahead Zonal Load Bus Distribution Factors](#)

### 8. PJM's Regional Transmission and Energy Scheduling Practices document

Jeff McLaughlin reviewed proposed revisions to the Regional Transmission and Energy Scheduling Practices document. These changes are in support of the NAESB version 3.3 Business Practice Standards, as well as administrative cleanup. The committee will be asked to endorse the proposed revisions at its next meeting.

## 9. Manuals

- A. Jeff McLaughlin reviewed proposed revisions to Manual 02: Transmission Service Request addressing clarifying changes related to the Internal Network Integration Transmission Service (NITS) Process issue, as well as administrative cleanup. The committee will be asked to endorse the proposed Manual revisions at its next meeting.
- B. Jonathan Kern reviewed proposed revisions to Manual 14A: New Services Request Process and Manual 14B: PJM Regional Transmission Planning Process addressing the generator deliverability test. The committee will be asked to endorse the proposed Manual revisions at its next meeting.
- C. Lisa Morelli reviewed proposed revisions to Manual 28: Operating Agreement Accounting addressing conforming clarifications and corrections to support the implementation of Reserve Price Formation. The committee will be asked to endorse the proposed Manual revisions at its next meeting.
- D. Thinzar Aung reviewed proposed revisions to Manual 38: Operations Planning resulting from its periodic review. The committee will be asked to endorse the proposed Manual revisions at its next meeting.

## Future Agenda Items

No new future agenda items were identified.

Future Meeting Dates and Materials			Materials Due to Secretary	Materials Published
Date	Time	Location		
<i>January 25, 2023</i>	9:00 a.m.	PJM Conference & Training Center and WebEx	January 13, 2023	January 18, 2023
<i>February 23, 2023</i>	9:00 a.m.	PJM Conference & Training Center and WebEx	February 13, 2023	February 16, 2023
<i>March 22, 2023</i>	9:00 a.m.	PJM Conference & Training Center and WebEx	March 10, 2023	March 15, 2023
<i>April 26, 2023</i>	9:00 a.m.	PJM Conference & Training Center and WebEx	April 14, 2023	April 19, 2023
<i>May 31, 2023</i>	9:00 a.m.	PJM Conference & Training Center and WebEx	May 19, 2023	May 24, 2023
<i>June 22, 2023</i>	9:00 a.m.	PJM Conference & Training Center and WebEx	June 12, 2023	June 15, 2023
<i>July 26, 2023</i>	9:00 a.m.	PJM Conference & Training Center and WebEx	July 14, 2023	July 19, 2023

<i>August 23, 2023</i>	9:00 a.m.	PJM Conference & Training Center and WebEx	August 11, 2023	August 16, 2023
<i>September 20, 2023</i>	9:00 a.m.	PJM Conference & Training Center and WebEx	September 8, 2023	September 13, 2023
<i>October 25, 2023</i>	9:00 a.m.	PJM Conference & Training Center and WebEx	October 13, 2023	October 18, 2023
<i>November 15, 2023</i>	9:00 a.m.	PJM Conference & Training Center and WebEx	November 3, 2023	November 8, 2023
<i>December 20, 2023</i>	9:00 a.m.	PJM Conference & Training Center and WebEx	December 8, 2023	December 13, 2023

Author: D. Anders

## Meeting Attendance

### Chair/Secretary

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

### Voting Attendees

Last Name	First Name	Company	Sector
Barker	Jason	Constellation Energy Generation, LLC	Generation Owner
Benchek	James	Monongahela Power Company d/b/a Allegheny Power	Transmission Owner
Bleiweis	Bruce	DC Energy, LLC	Other Supplier
Borgatti	Michael	Moxie Freedom LLC	Generation Owner
Borgatti	Michael	York County Solid Waste and Refuse Authority	Generation Owner
Borgatti	Michael	Jersey Green Energy, LLC	Other Supplier
Borgatti	Michael	Hazleton Generation LLC	Generation Owner
Borgatti	Michael	Recurrent Energy, LLC	Other Supplier
Borgatti	Michael	Longview Power, LLC	Generation Owner
Borgatti	Michael	NextEra Energy Marketing, LLC	Other Supplier
Borgatti	Michael	Energy Harbor LLC	Generation Owner
Borgatti	Michael	Newark Energy Center, LLC	Generation Owner
Bruce	Susan	Trustees of the University of Pennsylvania	End-Use Customer
Bruce	Susan	Letterkenny Industrial Development Authority - PA	Electric Distributor
Bruce	Susan	Gerdau Ameristeel Energy, Inc.	End-Use Customer
Bruce	Susan	MeadWestvaco Corporation	End-Use Customer
Bruce	Susan	Linde Inc.	End-Use Customer
Bruce	Susan	Lehigh Portland Cement Company	End-Use Customer
Bruce	Susan	Air Products & Chemicals, Inc.	End-Use Customer
Bruce	Susan	Cleveland-Cliffs Steel LLC	End-Use Customer
Bruce	Susan	Procter & Gamble Paper Products Company (The)	End-Use Customer
Bruce	Susan	Wellsboro Electric Company	Electric Distributor
Bruce	Susan	Messer LLC	End-Use Customer
Bruce	Susan	Kimberly-Clark Corporation	Generation Owner
Campbell	Bruce	MidAtlantic Power Partners, LLC	Other Supplier
Canter	David	Appalachian Power Company	Transmission Owner
Chang	Sean	Shell Energy North America (US), L.P.	Other Supplier
Davis	James	Virginia Electric & Power Company	Transmission Owner
Domian	Christin	Duquesne Light Company	Transmission Owner
Dugan	Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Fishback	Luke	Affirmed Energy LLC	Other Supplier
Fitch	Neal	NRG Power Marketing LLC	Generation Owner

Foladare	Kenneth	Geenex Solar LLC	Other Supplier
Ford	Adrien	Old Dominion Electric Cooperative	Electric Distributor
Fuess	Christian	lctec.com, Inc.	Other Supplier
Fuess	Christian	NextPower III US Holdco Inc.	Generation Owner
Fuess	Christian	PBF Power Marketing, LLC	End-Use Customer
Fuess	Christian	Kuehne Chemical Company, Inc.	End-Use Customer
Fuess	Christian	Diamond State Generation Partners, LLC	Generation Owner
Garnett	Bryan	Duke Energy Business Services LLC	Transmission Owner
Hoatson	Tom	Riverside Generating Company, L.L.C.	Generation Owner
Hohenshilt	Jennifer	Talen Energy Marketing, LLC	Generation Owner
Horning	Lynn	American Municipal Power, Inc.	Electric Distributor
Horstmann	John	Dayton Power & Light Company (The)	Transmission Owner
Hyzinski	Thomas	Dynegy Marketing and Trade, LLC	Generation Owner
Hyzinski	Thomas	Carroll County Energy LLC	Generation Owner
Hyzinski	Thomas	GenOn Energy Management, LLC	Generation Owner
Johnson	Carl	Easton Utilities Commission	Electric Distributor
Johnson	Carl	Indiana Municipal Power Agency	Electric Distributor
Johnson	Carl	North Carolina Electric Membership Corporation	Electric Distributor
Johnson	Carl	Michigan Public Power Agency	Electric Distributor
Johnson	Carl	Delaware Municipal Electric Corporation, Inc.	Electric Distributor
Johnson	Carl	Borough of Mont Alto, Pennsylvania	Electric Distributor
Johnson	Carl	Thurmont Municipal Light Company	Electric Distributor
Johnson	Carl	Town of Williamsport (The)	Electric Distributor
Johnson	Carl	WPPI Energy	Other Supplier
Johnson	Carl	Blue Ridge Power Agency, Inc.	Electric Distributor
Johnson	Carl	Borough of Chambersburg	Electric Distributor
Johnson	Carl	Energy Cooperative Association of Pennsylvania (The)	Other Supplier
Johnson	Carl	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Johnson	Carl	Buckeye Power, Inc.	Electric Distributor
Johnson	Carl	Central Virginia Electric Cooperative	Electric Distributor
Johnson	Carl	City of Dover, Delaware	Electric Distributor
Johnson	Carl	Hagerstown Light Department	Electric Distributor
Johnson	Carl	Illinois Municipal Electric Agency	Electric Distributor
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
Midgley	Sharon	Exelon Business Services Company, LLC	Transmission Owner
Nix	Emma	Leeward Asset Management, LLC	Generation Owner
Pakela	Greg	DTE Energy Trading, Inc.	Other Supplier
Poulos	Greg	Public Staff - North Carolina Utilities Commission	End-Use Customer
Poulos	Greg	Delaware Division of the Public Advocate	End-Use Customer
Poulos	Greg	Illinois Citizen Utility Board	End-Use Customer
Poulos	Greg	Office of the Attorney General, Kentucky	End-Use Customer
Poulos	Greg	New Jersey Division of Rate Counsel	End-Use Customer
Poulos	Greg	Maryland Office of People's Counsel	End-Use Customer
Poulos	Greg	Pennsylvania Office of Consumer Advocate	End-Use Customer
Poulos	Greg	Indiana Office of Utility Consumer Counselor (IN OUCC)	End-Use Customer
Rohrbach	John	Wabash Valley Power Association, Inc.	Electric Distributor
Rohrbach	John	Southern Maryland Electric Cooperative, Inc.	Electric Distributor
Rohrbach	John	Kentucky Municipal Energy Agency	Electric Distributor
Scarpignato	David	Calpine Energy Services, L.P.	Generation Owner
Stern	Alex	Public Service Electric and Gas Company	Transmission Owner
Stupar	Rob	Invernergy Energy Management LLC	Generation Owner
Swalwell	Bradley	Tangent Energy Solutions, Inc.	Other Supplier
Swigonski	Frank	Pine Gate Mid-Atlantic, LLC	Other Supplier
Tubridy	Meg	Rockland Electric Company	Transmission Owner

Vayda	Brian	Borough of Milltown, New Jersey	Electric Distributor
Vayda	Brian	Borough of Pemberton, New Jersey	Electric Distributor
Vayda	Brian	Borough of Butler, Butler Electric Division	Electric Distributor
Vayda	Brian	Borough of Madison, New Jersey	Electric Distributor
Vayda	Brian	Borough of Lavallette, New Jersey	Electric Distributor
Vayda	Brian	Borough of Seaside Heights, New Jersey	Electric Distributor
Vayda	Brian	Vineland Municipal Electric Utility	Electric Distributor
Vayda	Brian	Borough of South River, New Jersey	Electric Distributor
Vayda	Brian	Borough of Park Ridge, New Jersey	Electric Distributor
Whitehead	Jeffrey	Essential Power Rock Springs, LLC	Generation Owner
Whitehead	Jeffrey	Eastern Generation, LLC	Generation Owner
Whitehead	Jeffrey	Wheelabrator Falls Inc.	Generation Owner
Wilkinson	Eric	Orsted Onshore North America, LLC	Generation Owner
Yovanovich	Laura	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner

### Non-Voting Attendees

Last Name	First Name	Company Name	Sector
Akinkuolie	Hassan	AEP Energy Partners, Inc.	Transmission Owner
Anderson	Jared	S&P Global Inc.	None
Ann	Ruth	Division of the Public Advocate of the State of Delaware	End-Use Customer
Anthony	Jason	KOREnergy, Ltd.	Other Supplier
Bagot	Nancy	Electric Power Supply Association	None
Bickerstaff	Dean	Hartree Partners, LP	Other Supplier
Blackwell	Terry	PJM Interconnection, LLC	Not Applicable
Blair	Newell	Whitehall & Company	None
Borgatti	Mike	Gabel and Associates	None
Boyle	Stephen	Merion Energy Solutions	None
Brad	Heisey,	Wolf Hills Energy, LLC	Generation Owner
Brodbeck	John	EDP Renewables North America, LLC	Generation Owner
Callen	Zachary	Illinois Commerce Commission	None
Canchi	Devendra	Monitoring Analytics, LLC	None
Carrier	Ron	Big Lake Consulting	None
Catanach	Jim	FirstEnergy Corporation	None
Chapman	Taylor	Charles River Associates (CRA) International	None
Christopher	Mahila	Public Utilities Commission of Ohio (The)	None
Cocco	Michael	Old Dominion Electric Cooperative	Electric Distributor
Concina	Wendell	Commonwealth Edison Company	Transmission Owner
Corash	Richard	PSEG Energy Resources & Trade LLC	Other Supplier
Cosic	Darija	Facebook	None
Curtis	Kenneth	Drilling Info, Inc.	None
dailey	mike	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Davies	Steve	Indiana Utility Regulatory Commission	None
Davis	David	Strata Solar	None
DeCunzo	James	Aurora Energy Research, LLC	None
Dillon	Matt	UGI Energy Services, LLC	Other Supplier
DiNicola	Laura	American Transmission Systems, Inc.	Transmission Owner
Donohue	Erin	Enel X North America, Inc.	Other Supplier
Doner	Amber	Consolidated Edison Company of New York, Inc	Transmission Owner
Douglass	Robert	Constellation Energy Generation, LLC	Generation Owner
Drom	Rick	None	None
Duensing	Allison	Saracen Energy East LP	Other Supplier
Edelen	Zach	Aurora Energy Research, LLC	None
Esquivel	Manuel	Enel X North America, Inc.	Other Supplier
Everngam	Scott	The Federal Energy Regulatory Commission	None
Fee	George	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Filomena	Guy	Customized Energy Solutions, Ltd.	None

Fuller	Pete	Autumn Lane Energy Consulting, LLC	None
Gaddes	Caleb	Lightsource Renewable Energy Development, LLC	Other Supplier
Gilani	Rehan	ConEdison Energy, Inc.	Other Supplier
Glazener	Patrick	Energy Authority, Inc. (The)	Other Supplier
Gordon	Jon	Shiplely Choice, LLC	Other Supplier
Green	Chris	Tri Global Energy, LLC	None
Green	Benjamin	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Guntle	Vince	American PowerNet Management	End-Use Customer
Hanser	Erik	Michigan Public Service Commission	None
Hastings	David	Market Interconnection Consulting Services (MICS)	None
Hehir	Flannan	Appian Way Energy Partners MidAtlantic, LLC	Other Supplier
Heidorn	Rich	RTO Insider	None
Heinle	Erik	Office of the Peoples Counsel for the District of Columbia	End-Use Customer
Helms	Joe	Tyr Energy, LLC	Other Supplier
Hough	Julia	Aurora Energy Research, LLC	None
Hough	James	PSEG Energy Resources & Trade LLC	Other Supplier
Howland	Ethan	Industry Dive	None
Hudis	Gabriella	Jersey Green Energy LLC	Other Supplier
Hull	Gerit	American Municipal Power, Inc.	Electric Distributor
Hyatt	Earl	Monitoring Analytics, LLC	None
Iler	Art	Indiana Office of Utility Consumer Counsel	None
Jacobs	Mike	Union of Concerned Scientists	None
Janapareddy	Anu	National Grid Renewables, LLC	None
Janicki	Diane	Boston Energy Trading & Marketing, LLC	Other Supplier
Jaramillo	Gil	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Jardot	Gina	Essential Power Rock Springs, LLC	Generation Owner
Baker	Jeff	Duke Energy Ohio, Inc.	Transmission Owner
Johnson	Jeanine	Cornell University	None
Johnston	Dave	Indiana Utility Regulatory Commission	None
Jones	Scott	Indiana Office of Utility Consumer Counsel	End-Use Customer
Josyula	Siva	Monitoring Analytics, LLC	None
Kayne	Sam	State of Delaware	None
Kent	Janessa	Duquesne Light Company	Transmission Owner
Kerecman	Joseph	Calpine Energy Services, L.P.	Generation Owner
Knotts	Pam	DE Public Service Commission	None
Kogut	George	New York Power Authority	Other Supplier
Koz	Brian	Alphataraxia Palladium LLC	None
Labate	Nick	NRG Curtailment Solutions, Inc.	Other Supplier
Lawton	Nick	Earth Justice	None
leeming	thomas	Commonwealth Edison Company	Transmission Owner
Leith-Yessian	Devin	RTO Insider	None
Lieberman	Steven	American Municipal Power, Inc.	Electric Distributor
Litchfield	Matt	CPV Shore, LLC	Generation Owner
Louwahi	Soufiane	Electric Power Engineers Consulting	None
Mabry	David	McNees Wallace & Nurick LLC	None
Marcino	Angelo	PJM Interconnection, LLC	None
Mariam	Yohannes	Office of the Peoples Counsel for the District of Columbia	End-Use Customer
Mason	Gary	Monongahela Power Company d/b/a Allegheny Power	Transmission Owner
Matheson	Douglas	SYSO LLC	Other Supplier
Matheson	Eric	Pennsylvania Public Utility Commission	None
Matuszak	Alex	UGI Energy Services, LLC	Other Supplier
Mayers	Sharon	Worley	None
McDewell	Christian	Commonwealth of PA	None
McNeil	Justin	Office of the Attorney General, Kentucky	End-Use Customer
Migliore	Mike	AMP Public Power Partners	None
Mok	Alan	Duke Energy Kentucky, Inc.	Transmission Owner

Moye	Bob	Rainbow Energy Marketing Corporation	Other Supplier
Moyo	Edwin	Charles River Associates	None
Mueller	Ron	Twin Eagle Resource Management, LLC	Other Supplier
Nader	Jordan	RunnerStone, LLC	None
Newell	Eric	Osaka Gas USA Corporation	None
Nicole	Jacky	The Federal Energy Regulatory Commission	None
Noel	Reynaldo	Orsted Onshore North America, LLC	Generation Owner
Novosel	Sarah	Calpine Energy Services, L.P.	Generation Owner
Okenfuss	James	Savion, LLC	None
Olinger	Robert	Gen Ops, LLC	Other Supplier
Ondayko	Brock	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Oxenham	Ian	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Pakela	Gregory	DTE Energy Trading, Inc.	Other Supplier
Panegal	Ash	Apex Clean Energy	None
Parikh	Jay	RTR Energy Solutions, LLC	None
Parrot	Sarah	Public Utilities Commission of Ohio	None
Peoples	John	Duquesne Light Company	Transmission Owner
Philips	Marjorie	Direct Energy Business Marketing, LLC	Other Supplier
Phillips	Amanda	Wabash Valley Power Association, Inc.	Electric Distributor
Pierpont	Dan	Elgin Energy Center, LLC	Generation Owner
Pollard	Albert	Other	None
Powers	Sean	Linde Energy Services, Inc.	None
Quinn	Arnie	Vista Energy Marketing, L.P.	Other Supplier
Reagan-	Ryann	New Jersey Board of Public Utilities	None
Redwine	Arlo	The Federal Energy Regulatory Commission	None
Roach	Temujin	MISO (Midcontinent Independent System Operator)	None
Rogers	Aaron	East Kentucky Power Cooperative, Inc.	Transmission Owner
Rosenthal	Peter	Energy Aspects	Other Supplier
Rutigliano	Tom	Achieving Equilibrium LLC	None
Rutledge	Craig	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Salaneck	Alexandra	Monitoring Analytics, LLC	None
Sasser	Jonathan	Customized Energy Solutions, Ltd.*	None
Scarpignato	Dominic	Scarp Industries	None
Scheidecker	Paul	Monitoring Analytics, LLC	None
Schisler	Ken	Enel X North America, Inc.	Other Supplier
Schmitt	David	New Jersey Board of Public Utilities	None
Schreim	Morris	Maryland Public Service Commission	None
Selick	Sam	Customized Energy Solutions, Ltd.*	None
Shanker	Roy	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Silverman	Abe	New Jersey Board of Public Utilities	None
Sims	Ryan	Interstate Gas Supply, Inc.	Other Supplier
Singer	Chad	Trane Grid Services, LLC	Other Supplier
Skucas	Ruta	K & L Gates	None
Skumanich	Bill	RTR Energy Solutions LLC	None
Sloan	Ben	Organization of PJM States, Inc. (OPSI)	None
Smith	Kara	Buckeye Power, Inc.	Electric Distributor
Snitchler	Todd	Public Utilities Commission of Ohio (The)	None
Sorrels	Jim	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Sotkiewicz	Paul	E-Cubed Policy Associates	None
Sparks	Bridget	Dayton Power & Light Company (The)	Transmission Owner
Stadelmeyer	Rebecca	Jersey Green Energy LLC	Other Supplier
Stone	Andy	PJM Interconnection, LLC	None
Stuchell	Jeff	American Transmission Systems, Inc.	Transmission Owner
Sussler	Philip	State of Maryland	None
Swalwell	Brad	Tangent Energy Solutions, Inc.	Other Supplier
Swary	Michael	Interstate Gas Supply, Inc.	Other Supplier



Sweeney	Rory	GT Power Group	None
Szeto	Connie	PBF Power Marketing, LLC	Generation Owner
Szot	Lisa	Szot Energy Services, LLC	None
Thomas	Amber	Exelon Business Services	Transmission Owner
Thomas	Glen	GT Power Group	None
Traugher	conrad	Lykins Energy Solutions	None
Tyler	Catherine	Monitoring Analytics, LLC	None
VanBlargan	Bryna	Resource Investments	None
Wade	Will	Bloomberg News	None
Walker	Jennifer	Exelon Business Services Company, LLC	Transmission Owner
Webb	Becky	Commonwealth Edison Company	Transmission Owner
Wehnes	Kathleen	Maryland Public Service Commission	None
Weinant	Eric	Illinois Municipal Electric Agency	Electric Distributor
Wilkinson,	Eric	Orsted Onshore North America, LLC	Generation Owner
Willson	Miranda	E&E News	None
Wilson	James	Wilson Energy Economics	None
Yasutake	Sarah	Gabel and Associates	None
York	Denver	East Kentucky Power Cooperative, Inc.	Transmission Owner
Yu	Joel	Rockland Electric Company	Transmission Owner
Zemanek	Kevin	Buckeye Power, Inc.	Electric Distributor

## PJM Attendees

Last Name	First Name	Company	Sector
Afelumo	Foluso	PJM Interconnection, LLC	Not Applicable
Anders	David	PJM Interconnection, LLC	Not Applicable
Asthana	Manu	PJM Interconnection, LLC	Not Applicable
Asthana	Manu	PJM Interconnection, LLC	Not Applicable
Aung	Thinzar	PJM Interconnection, LLC	Not Applicable
Bachus	Tim	PJM Interconnection, LLC	Not Applicable
Berner	Aaron	PJM Interconnection, LLC	Not Applicable
Bernstein	Matthew	PJM Interconnection, LLC	Not Applicable
Bowker	Shannon	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
Bruno	Joshua	PJM Interconnection, LLC	Not Applicable
Bryson	Mike	PJM Interconnection, LLC	Not Applicable
Buehler	Susan	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
Coyne	Suzanne	PJM Interconnection, LLC	Not Applicable
Croop	Danielle	PJM Interconnection, LLC	Not Applicable
D'Antonio	Phil	PJM Interconnection, LLC	Not Applicable
DeVita	Thomas	PJM Interconnection, LLC	Not Applicable
Downs	Jere	PJM Interconnection, LLC	Not Applicable
Drauschak	Lisa	PJM Interconnection, LLC	Not Applicable
Egan	Amanda	PJM Interconnection, LLC	Not Applicable
Esterly	Theresa	PJM Interconnection, LLC	Not Applicable
Fabiano	Janell	PJM Interconnection, LLC	Not Applicable
Falin	Tom	PJM Interconnection, LLC	Not Applicable
Fan	Zhenyu	PJM Interconnection, LLC	Not Applicable
Fereshetian	Damon	PJM Interconnection, LLC	Not Applicable
Fitzpatrick	Brian	PJM Interconnection, LLC	Not Applicable
Foley	Sheila	PJM Interconnection, LLC	Not Applicable
Foley	Pauline	PJM Interconnection, LLC	Not Applicable

Franks	Christine	PJM Interconnection, LLC	Not Applicable
Frogg(he/him)	Darrell	PJM Interconnection, LLC	Not Applicable
Glatz	Suzanne	PJM Interconnection, LLC	Not Applicable
Gluck	Jim	PJM Interconnection, LLC	Not Applicable
Greening	Michele	PJM Interconnection, LLC	Not Applicable
Handlin	Mike	PJM Interconnection, LLC	Not Applicable
Hatch	Kevin	PJM Interconnection, LLC	Not Applicable
Hauske	David	PJM Interconnection, LLC	Not Applicable
Hauske	Tom	PJM Interconnection, LLC	Not Applicable
Hayik	Seth	PJM Interconnection, LLC	Not Applicable
Herel	Suzanne	PJM Interconnection, LLC	Not Applicable
Herman	Michael	PJM Interconnection, LLC	Not Applicable
Herrera	Maria	PJM Interconnection, LLC	Not Applicable
Hicks	Colleen	PJM Interconnection, LLC	Not Applicable
Hislop	David	PJM Interconnection, LLC	Not Applicable
Holter	Natasha	PJM Interconnection, LLC	Not Applicable
Horger	Tim	PJM Interconnection, LLC	Not Applicable
Hoshmand	Mojtaba	PJM Interconnection, LLC	Not Applicable
Hsia	Eric	PJM Interconnection, LLC	Not Applicable
Kazerooni	Hamid	PJM Interconnection, LLC	Not Applicable
Keech	Adam	PJM Interconnection, LLC	Not Applicable
Kenney	Susan	PJM Interconnection, LLC	Not Applicable
Kern	Jonathan	PJM Interconnection, LLC	Not Applicable
Lai	Erin	PJM Interconnection, LLC	Not Applicable
Lambert	Andrew	PJM Interconnection, LLC	Not Applicable
Langbein	Pete	PJM Interconnection, LLC	Not Applicable
Lee	Ray	PJM Interconnection, LLC	Not Applicable
Lockwood	Dan	PJM Interconnection, LLC	Not Applicable
Loftus	Chad	PJM Interconnection, LLC	Not Applicable
Long	Glenn	PJM Interconnection, LLC	Not Applicable
Lu	Chenchao	PJM Interconnection, LLC	Not Applicable
Lynch	Jessica	PJM Interconnection, LLC	Not Applicable
Martin	Amanda	PJM Interconnection, LLC	Not Applicable
McElwaine	Kathy	PJM Interconnection, LLC	Not Applicable
McElwee	Steve	PJM Interconnection, LLC	Not Applicable
McElwee	Steve	PJM Interconnection, LLC	Not Applicable
McGill	Susan	PJM Interconnection, LLC	Not Applicable
McGlynn	Paul	PJM Interconnection, LLC	Not Applicable
McGovern	Jason	PJM Interconnection, LLC	Not Applicable
McLaughlin	Jeffrey	PJM Interconnection, LLC	Not Applicable
McLavery	.Megan	PJM Interconnection, LLC	Not Applicable
Messina	Emmy	PJM Interconnection, LLC	Not Applicable
Morelli	Lisa	PJM Interconnection, LLC	Not Applicable
Nestel	Stacey	PJM Interconnection, LLC	Not Applicable
Pacella	Christopher	PJM Interconnection, LLC	Not Applicable
Patel	Anita	PJM Interconnection, LLC	Not Applicable
Patel	Keyur	PJM Interconnection, LLC	Not Applicable
Pilong	Christopher	PJM Interconnection, LLC	Not Applicable
Quevada	Jason	PJM Interconnection, LLC	Not Applicable
Rocha Garrido	Patricio	PJM Interconnection, LLC	Not Applicable
Seiler	Kenneth	PJM Interconnection, LLC	Not Applicable
Scheirer	Alexandra	PJM Interconnection, LLC	Not Applicable
Scherling	Eric	PJM Interconnection, LLC	Not Applicable
Schuyler	Ken	PJM Interconnection, LLC	Not Applicable
Shah	Vijay	PJM Interconnection, LLC	Not Applicable
Souder	Dave	PJM Interconnection, LLC	Not Applicable

Souder	Rich	PJM Interconnection, LLC	Not Applicable
Souder	Michelle	PJM Interconnection, LLC	Not Applicable
Starkov	Stefan	PJM Interconnection, LLC	Not Applicable
Stefanowicz	Vince	PJM Interconnection, LLC	Not Applicable
Stemetzki	Michael	PJM Interconnection, LLC	Not Applicable
Swimm	Nora	PJM Interconnection, LLC	Not Applicable
Tribulski	Jen	PJM Interconnection, LLC	Not Applicable
Warshel	Kim	PJM Interconnection, LLC	Not Applicable
Waweru	James	PJM Interconnection, LLC	Not Applicable
WebEx01	Stakeholder	PJM Interconnection, LLC	Not Applicable
Widom	Stuart	PJM Interconnection, LLC	Not Applicable
Yeaton	Andrea	PJM Interconnection, LLC	Not Applicable