



DER and Inverter-based Resources Subcommittee WebEx Only April 27, 2021 9:00 a.m. – 3:00 p.m. ET

Administration (9:00 – 9:20)

- 1. Scott Baker, PJM, opened the meeting and reviewed the agenda.
- 2. Hamad Ahmed, PJM, reviewed the meeting participation guidelines. The minutes from the last DIRS meeting and the EDC coordination workshop were approved with 0 objections and 0 abstentions.
- 3. Scott reviewed the DIRS work plan.
 - Scott reviewed the DIRS work plan discussing key milestones around Order 2222 highlighting that April's DIRS would focus mainly on straw proposal discussion.

Order 2222 – Discussion on straw proposal (9:20 – 2:30)

- 4. PJM Staff continued to review a straw proposal for DER Aggregation that sought to address the various compliance directives in Order 2222. The straw proposal is meant to provide a more holistic view of how PJM staff is initially approaching each topic area, and to serve as a starting place for further collaboration between staff and stakeholders on PJM's compliance filing.
 - Danielle Croop, PJM, started the discussion with an update on the extension request and briefly reviewed the extension timeline. Danielle also discussed min/max size requirements highlighting that no minimum size requirements will be defined and that PJM is considering a max size of 5 MW for individual DERs, meaning DER greater than 5MW will not be eligible to participate in a DERA. Stakeholders discussed this proposal, including comments around the rationale for PJM's proposal, comments to increase this value to 10MW consistent with thresholds elsewhere in the PJM Tariff, and others around local utility requirements determining the max size threshold rather than PJM.
 - Edward Rich III, PJM, discussed meter data requirements and several topics within settlements such as DR participation, day ahead, balancing, operating reserves, DERA settlements and Demand Response. Ed also discussed several settlements examples for DER, DERA and DERA with deviations and double counting.
 - Danielle discussed several use case options and welcome proposals from stakeholders on how different DERA use cases can participate in wholesale markets and be metered.
 - Pete Langbein, PJM, discussed EDC coordination process highlighting key steps such as DER registration and utility review. Pete reviewed key EDC responsibilities for FERC Order 2222 and registration review timeline.





- Pete reviewed 'modification of list of resources' language within Order 2222 and noted that this
 was an area that PJM still needed to develop further with stakeholder input on that process.
- Michelle Farhat, PJM, reviewed Operations coordination for day ahead run, after day ahead run and re-bid and intraday, status quo and distribution override. Michelle stated that PJM will need to define communication and data requirements to ensure proper settlements addressing both retail and wholesale billing.
- 5. Daniel Moscovitz, PJM, provided education on pricing nodes and how they relate to PJM's proposed aggregation model.
 - Daniel discussed PJM markets calculations for Enodes and Pnodes and emphasized that DER aggregators will need to work with EDC/utility to understand electrical locations of DER. Daniel also reviewed an example for different DER's nodal aggregation.

Solar-Battery Hybrid Resources (2:30 – 2:55)

- 6. Skyler Marzewski, PJM, provided updated clarification on the application of the Minimum Offer Price Rule for co-located and hybrid resources.
 - Skyler reviewed PJM process calculating MOPR prices for Solar plus battery, hybrid resources and co-located resources and discussed MOPR qualification for co-located and hybrid units. Skyler also discussed MOPR decision tree for Solar plus Battery.
- 7. Stakeholders reviewed progress on the solar-battery hybrid solutions matrix and discussed next steps towards recommending a proposal to the MIC (and OC).
 - Andrew Levitt, PJM, discussed a new design component; resource classification process and edits to package A for regulation and resource classification process.
 - Connie Lowe, Dominion, reviewed an additional solution option and commented that Dominion may seek to propose an additional solution package at the May DIRS meeting.

Issue Tracking: Solar-Battery Hybrid Resources

Action items and next meeting agenda (2:55 – 3:00)

8. The facilitation team reviewed action items from the meeting and took requests for future agenda items.

Future Meeting Dates

May 05, 2021–EDC Coordination workshop	1:00 – 3:00	WebEx
May 19, 2021	9:00 – 4:00	WebEx
June 11,2021–EDC Coordination workshop	10:00 - 12:00	WebEx
June 28, 2021	9:00 – 4:00	WebEx
July 15,2021–EDC Coordination workshop	2:00 - 4:00	WebEx
July 23, 2021	9:00 – 4:00	WebEx
August 10, 2021–EDC Coordination workshop	3:00 - 5:00	WebEx





August 16, 2021	9:00 – 12:00	WebEx
September 14, 2021	9:00 – 12:00	WebEx
September 21, 2021–EDC Coordination workshop	3:00 – 5:00	WebEx
October 22, 2021	9:00 – 4:00	WebEx
November 22, 2021	9:00 – 3:00	WebEx
December 21, 2021	9:00 – 4:00	WebEx

Author: Hamad Ahmed

WebEx Meeting Attendance

Webla Meeting Attenual		1
Name	Company Name	Sector
		Transmission Owner
Aguilera, Jorge	Duke Energy Ohio, Inc. (EDC)	
Ahmad, Syed	Federal Energy Regulatory Commission	
Ahmed, Hamad	PJM Interconnection	None
		Other Supplier
Ainspan, Malcolm	NRG Curtailment Solutions, Inc.	
		Transmission Owner
Allen, William	Commonwealth Edison Company	Maria
Anders, David	PJM Interconnection	None
Anderson, Jared	American Transmission Company - Retired	
		Transmission Owner
Arnold, Katelyn	PPL Electric Utilities Corp. dba PPL Utilities (LSE)	
		Transmission Owner
Arsalan, Qamar	Public Service Electric & Gas Company	
Baker, Jeff	PJM Connect	No.
Baker, Scott	PJM Interconnection	None
Beam, George	PPL Elec Utilities Corp dba PPL Utilities (PPL POLR Small C&I)	Transmission Owner
Beban, Madalyn	PJM Interconnection	None
Benchek, Jim	FirstEnergy Corporation	
Bernabeu, Emanuel	РЈМ	
Berner, Aaron	PJM Interconnection	None
Bernstein, Matthew	PJM Interconnection	None
Demotern, waterew	1 divinitoredinicedon	Transmission Owner
Berton, Tyler	AEP Appalachian Transmission Company, Inc.	
• •		Transmission Owner
Besz, Matthew	PPL Electric Utilities Corp. dba PPL Utilities (TO)	
		Transmission Owner
Bhana, Rajesh	Exelon Business Services Company, LLC	
Bielak, Donnie	PJM Interconnection	None
Borkoski, John	MD Public Service Commission	
Bowring, Joe	Monitoring Analytics	
Boyle, Glen	PJM Interconnection	None





Breidenbaugh, Aaron	Rodan Energy Solutions (USA) Inc.	
	Rodali Ellergy Solutions (OSA) Illo.	
		Generation Owner
Brodbeck, John	EDP Renewables North America LLC	
Brooks, Richard	Reliable Energy Analytics LLC	Other O collins
		Other Supplier
Brophy, Richard	New York State Electric & Gas Corporation	None
Bruno, Patrick	PJM Interconnection	TOTAL
Bryson, Michael	PJM Internal	
Buhler, Thomas	PJM Connect	
Burnham, Kat	Advanced Energy Economy (AEE)	
Burns, Kevin	Open Access Technology International, Inc.	None
Callen, Zachary	Illinios Commerce Commission	
		Other Supplier
Campbell, Bruce	Enerwise Global Technologies, LLC	7
		Transmission Owner
Canter, David	Appalachian Power Company (AEP Generation)	
Carmean, Gregory	Organization of PJM States, Inc.	Other Supplier
0 0	8: 45 8: 44.65.449	Other Supplier
Cavan, Peter	Direct Energy Business Marketing, LLC	None
Caven, Augustine	PJM Interconnection	Other Supplier
Chakragiri, Mohan	ENGIE Energy Marketing NA, Inc. (Bluestone)	Contraction of the contraction o
	Savion, LLC	
Cham, Edrissa	Saviori, LLC	Other Supplier
Chang, Sean	Shell Energy North America (US), L.P.	
Chee, Yee Hong	MCG Energy Solutions	
Chen, Yang	PJM Interconnection	None
Chilukuri, Kalyan	Power System Consultants	
Ciliukuli, Raiyali	1 ower System consultants	Transmission Owner
Circelli, Roseanne	Public Service Electric & Gas Company	
		Electric Distributor
Cocco, Michael	Old Dominion Electric Cooperative	
Comeau, Jeremy	IN Utility Regulatory Commission	
		Transmission Owner
Connelly, Nancy	Duke Energy Ohio, Inc.	Transmission Owner
		Transmission Owner
Coyle, Billy	Dominion Virginia Power	None
Croop, Danielle	PJM Interconnection	Transmission Owner
Currier ES loff	Dominion Virginia Parres	Transmission Owner
Currier ES, Jeff	Dominion Virginia Power	Electric Distributor
Dailey, Michael	Northern Virginia Electric Cooperative (NOVEC)	





		Transmission Owner
D'Alessandris, Louis	American Transmission Systems, Inc.	
Davis, Elizabeth	PJM Interconnection	None
		Generation Owner
Davis, James	Dominion Energy Generation Marketing, Inc.	
Delaney, Liz	Borrego Solar	
DeLosa, Joseph	New Jersey Board of Public Utilities	
		Electric Distributor
Denby, Brett	Northern Virginia Electric Cooperative (NOVEC)	None
DeVita, Thomas	PJM Interconnection	None
Dibert, Meredith	Pennsylvania Department of Environmental Protection	
DiNicola, Laura	firstenergy	
		Transmission Owner
Diong, Mamadou	Dominion Virginia Power	Nega
Dixon, Chad	Customized Energy Solutions, Ltd.	None
		Transmission Owner
Dolan, Ryan	Dayton Power & Light Company (The) (EDC)	Transmission Owner
Desires Objects	2	Transmission Owner
Domian, Christin	Duquesne Light Company	
Downs, Jere	PJM Connect	None
Dropkin, Ilyana	PJM Interconnection	Transmission Owner
Duran Chuek	Foot Ventually Payer Cooperative Inc.	Transmission Switch
Dugan, Chuck	East Kentucky Power Cooperative, Inc.	None
Dumitriu, Nicolae	PJM Interconnection	Transmission Owner
Elkins, Rachel	American Transmission Systems, Inc.	
Elitilo, radioi	American Handingson Systems, inc.	Transmission Owner
Ellis, David	Public Service Electric & Gas Company	
fan, zhenyu	PJM Interconnection	None
		Transmission Owner
Fee, George	Appalachian Power Company (AEP Generation)	
Feldman, Brett	Other	
		Transmission Owner
Felt, Justin	Baltimore Gas and Electric Company (Residential)	
Filomena, Guy	Customized Energy Solutions, Ltd.	None
Fink, Regan	Pine Gate Renewables	
Fleisher, Madeline	Dickinson Wright PLLC	
		Generation Owner
Foladare, Kenneth	Geenex Solar LLC	N
Foley, Sheila	PJM Interconnection	None
		Electric Distributor
Ford, Adrien	Old Dominion Electric Cooperative	





Frogs, Darrell PJM Interconnection PBF Power Marketing, LLC Indiana Office of Utility Consumer Counselox (IN OUCC) Garcia, Luis Public Service Electric & Gas Company Transmission Owner Garcia, Luis Public Service Electric & Gas Company Transmission Owner Gamett, Bryan Duke Energy Ohio, Inc. Gates, Jill PJM Interconnection Transmission Owner Gates, Jill PJM Interconnection Other Supplier Gates, Terry Appalachian Power Company (AEP Generation) Other Supplier Glan, Rehan ConEdison Energy, Inc. Glatz, Suzanne PJM Interconnection None Glazer, Craig PJM Interconnection None Glazer, Craig PJM Interconnection Dominion Virginia Power Dominion Virginia Flore Commission Denduction Dominion Virginia Flore Dominion Virginia Floric Cooperative (NOVEC) Dom			Transmission Owner
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Glazer, Craig PJM Interconnection None Glazer, Craig PJM Interconnection None Granstrand, Luke Dominion Virginia Power Greening, Michele PJM Interconnection None Greening, Michele PJM Interconnection Other Supplier Greiner, Gary PSEG Energy Resources and Trade LLC Guistwhite, Jeffrey PJM Interconnection End-Use Customer Guntle, Vince American PowerNet Management, L.P. Hanser, Erik Michigan Public Service Commission Transmission Owner Hartman, Gary PPL Electric Utilities Corp. dba PPL Utilities (LSE) Hasan, Prusha Advanced Energy Economy Hauske, Thomas PJM Interconnection None Heinle, Frederick Office of the Peoples Counsel Transmission Owner Heitmeyer, Chad Appalachian Power Company (AEPSCO) Herel, Suzanne PJM Interconnection None Generation Owner Hoatson, Tom West Deptford Energy, LLC Generation Owner Hohenshilt, Jennifer Talen Energy Marketing, LLC Electric Distributor Hodibrook, Ruth Northern Virginia Electric Cooperative (NOVEC) Horning, Lynn Marie Customized Energy Solutions, Ltd. Transmission Owner	Gilani Rehan	ConEdison Energy Inc	- 1.0. Supplies
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Greiner, Gary Guistwhite, Jeffrey PJM Interconnection End-Use Customer End-Use Customer American PowerNet Management, L.P. Hanser, Erik Michigan Public Service Commission Transmission Owner Hartman, Gary PPL Electric Utilities Corp. dba PPL Utilities (LSE) Hasan, Prusha Advanced Energy Economy Hauske, Thomas PJM Interconnection None Heinle, Frederick Office of the Peoples Counsel Transmission Owner Heitmeyer, Chad Appalachian Power Company (AEPSCO) Herel, Suzanne PJM Interconnection None Generation Owner Hoatson, Tom West Deptford Energy, LLC Generation Owner Hohenshilt, Jennifer Talen Energy Marketing, LLC Electric Distributor Holdbrook, Ruth Northern Virginia Electric Cooperative (NOVEC) Horning, Lynn Marie Customized Energy Solutions, Ltd. Transmission Owner	Greening, Michele	PJM Interconnection	
Guistwhite, Jeffrey PJM Interconnection End-Use Customer Transmission Owner Transmission Owner None PPL Electric Utilities Corp. dba PPL Utilities (LSE) Hasan, Prusha Advanced Energy Economy None PJM Interconnection None Heitmeyer, Chad Appalachian Power Company (AEPSCO) Herel, Suzanne PJM Interconnection Reneration Owner Hoatson, Tom West Deptford Energy, LLC Generation Owner Hohenshilt, Jennifer Talen Energy Marketing, LLC Electric Distributor Holdbrook, Ruth Northern Virginia Electric Cooperative (NOVEC) Horning, Lynn Marie Customized Energy Solutions, Ltd. Transmission Owner	Crainer Con.	DCCC Fragge Decourses and Trade LLC	Culoi Supplici
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Hanser, Erik Michigan Public Service Commission Transmission Owner Hartman, Gary PPL Electric Utilities Corp. dba PPL Utilities (LSE) Hasan, Prusha Advanced Energy Economy Hauske, Thomas PJM Interconnection None Heinle, Frederick Office of the Peoples Counsel Transmission Owner Heitmeyer, Chad Appalachian Power Company (AEPSCO) Herel, Suzanne PJM Interconnection Rone Generation Owner Hoatson, Tom West Deptford Energy, LLC Generation Owner Hohenshilt, Jennifer Talen Energy Marketing, LLC Electric Distributor Holdbrook, Ruth Northern Virginia Electric Cooperative (NOVEC) Horning, Lynn Marie Customized Energy Solutions, Ltd. Transmission Owner	Guntle Vince	American PowerNet Management I. P.	
Hartman, Gary PPL Electric Utilities Corp. dba PPL Utilities (LSE) Hasan, Prusha Advanced Energy Economy Hauske, Thomas PJM Interconnection None Heinle, Frederick Office of the Peoples Counsel Transmission Owner Heitmeyer, Chad Appalachian Power Company (AEPSCO) Herel, Suzanne PJM Interconnection Generation Owner Hoatson, Tom West Deptford Energy, LLC Generation Owner Hohenshilt, Jennifer Talen Energy Marketing, LLC Electric Distributor Holdbrook, Ruth Northern Virginia Electric Cooperative (NOVEC) Horning, Lynn Marie Customized Energy Solutions, Ltd. Transmission Owner			
Hasan, Prusha Advanced Energy Economy Hauske, Thomas PJM Interconnection None Heinle, Frederick Office of the Peoples Counsel Transmission Owner Heitmeyer, Chad Appalachian Power Company (AEPSCO) Herel, Suzanne PJM Interconnection Rone Generation Owner Hoatson, Tom West Deptford Energy, LLC Generation Owner Hohenshilt, Jennifer Talen Energy Marketing, LLC Electric Distributor Holdbrook, Ruth Northern Virginia Electric Cooperative (NOVEC) Horning, Lynn Marie Customized Energy Solutions, Ltd. Transmission Owner	Tidiloot, Elik	Wildingari Tubilo Octivico Octimisolori	Transmission Owner
Hauske, Thomas PJM Interconnection Heinle, Frederick Office of the Peoples Counsel Transmission Owner Heitmeyer, Chad Appalachian Power Company (AEPSCO) Herel, Suzanne PJM Interconnection Generation Owner Hoatson, Tom West Deptford Energy, LLC Generation Owner Hohenshilt, Jennifer Talen Energy Marketing, LLC Electric Distributor Holdbrook, Ruth Northern Virginia Electric Cooperative (NOVEC) Horning, Lynn Marie Customized Energy Solutions, Ltd. Transmission Owner	Hartman, Gary	PPL Electric Utilities Corp. dba PPL Utilities (LSE)	
Hauske, Thomas PJM Interconnection Office of the Peoples Counsel Transmission Owner Heitmeyer, Chad Appalachian Power Company (AEPSCO) Herel, Suzanne PJM Interconnection Generation Owner Hoatson, Tom West Deptford Energy, LLC Generation Owner Hohenshilt, Jennifer Talen Energy Marketing, LLC Electric Distributor Holdbrook, Ruth Northern Virginia Electric Cooperative (NOVEC) Horning, Lynn Marie Customized Energy Solutions, Ltd. Transmission Owner	Hasan, Prusha	Advanced Energy Economy	
Heinle, Frederick Office of the Peoples Counsel Transmission Owner Heitmeyer, Chad Appalachian Power Company (AEPSCO) None PJM Interconnection Generation Owner Hoatson, Tom West Deptford Energy, LLC Generation Owner Hohenshilt, Jennifer Talen Energy Marketing, LLC Electric Distributor Holdbrook, Ruth Northern Virginia Electric Cooperative (NOVEC) Horning, Lynn Marie Customized Energy Solutions, Ltd. Transmission Owner			None
Heitmeyer, Chad Appalachian Power Company (AEPSCO) Herel, Suzanne PJM Interconnection Generation Owner Hoatson, Tom West Deptford Energy, LLC Generation Owner Hohenshilt, Jennifer Talen Energy Marketing, LLC Electric Distributor Holdbrook, Ruth Northern Virginia Electric Cooperative (NOVEC) Horning, Lynn Marie Customized Energy Solutions, Ltd. Transmission Owner			
Herel, Suzanne PJM Interconnection Generation Owner Hoatson, Tom West Deptford Energy, LLC Generation Owner Hohenshilt, Jennifer Talen Energy Marketing, LLC Electric Distributor Holdbrook, Ruth Northern Virginia Electric Cooperative (NOVEC) Horning, Lynn Marie Customized Energy Solutions, Ltd. Transmission Owner	Training, Fraudrick	Child of the Cooples Sounds.	Transmission Owner
Herel, Suzanne PJM Interconnection Generation Owner Hoatson, Tom West Deptford Energy, LLC Generation Owner Talen Energy Marketing, LLC Electric Distributor Holdbrook, Ruth Northern Virginia Electric Cooperative (NOVEC) Horning, Lynn Marie Customized Energy Solutions, Ltd. Transmission Owner	Heitmeyer, Chad	Appalachian Power Company (AEPSCO)	
Hohenshilt, Jennifer Talen Energy Marketing, LLC Holdbrook, Ruth Northern Virginia Electric Cooperative (NOVEC) Horning, Lynn Marie West Deptford Energy, LLC Generation Owner Electric Distributor Northern Virginia Electric Cooperative (NOVEC) None Transmission Owner	Herel, Suzanne	PJM Interconnection	None
Hohenshilt, Jennifer Talen Energy Marketing, LLC Electric Distributor Holdbrook, Ruth Northern Virginia Electric Cooperative (NOVEC) Horning, Lynn Marie Customized Energy Solutions, Ltd. Transmission Owner			Generation Owner
Hohenshilt, Jennifer Talen Energy Marketing, LLC Electric Distributor Holdbrook, Ruth Northern Virginia Electric Cooperative (NOVEC) Horning, Lynn Marie Customized Energy Solutions, Ltd. Transmission Owner	Hoatson, Tom	West Deptford Energy, LLC	
Holdbrook, Ruth Northern Virginia Electric Cooperative (NOVEC) Horning, Lynn Marie Customized Energy Solutions, Ltd. Transmission Owner			Generation Owner
Holdbrook, Ruth Northern Virginia Electric Cooperative (NOVEC) Horning, Lynn Marie Customized Energy Solutions, Ltd. Transmission Owner	Hohenshilt, Jennifer	Talen Energy Marketing, LLC	Flactric Distributor
Horning, Lynn Marie Customized Energy Solutions, Ltd. None Transmission Owner		N 4	FIGURE DISHIDURA
Horning, Lynn Marie Customized Energy Solutions, Ltd. Transmission Owner			None
	Horning, Lynn Marie	Customized Energy Solutions, Ltd.	
	Horstmann, John	Dayton Power & Light Company (The)	Transmission Owner





Howe, Cullen	Natural Resources Defense Council	
		Electric Distributor
Hull, Gerit	American Municipal Power, Inc.	
Hunter, Benjamin	BSHunter	
Hyzinski, Tom	gtpghyzinsk	
Iler, Arthur	Indiana Office of Utility Consumer Counselor	
		Generation Owner
Janapareddy, Anupama	Green River Holdings, LLC	0,000
		Other Supplier
Janicki, Diane	Boston Energy Trading and Marketing LLC	Electric Distributor
Jaramillo Gilbort	Northern Virginia Flootrie Cooperative (NOVEC)	2.555 2.5554.6.
Jaramillo, Gilbert	Northern Virginia Electric Cooperative (NOVEC)	Other Supplier
Jardot, Gina	NRG Curtailment Solutions, Inc.	
,		Transmission Owner
Jett, William	Duke Energy Business Services LLC	
Jha, Monica	PCI	
		Transmission Owner
Johnson, Augustus	Dominion Virginia Power (EDC)	
		Transmission Owner
Johnson, Bethany	PPL Electric Utilities Corp. dba PPL Utilities (TO)	None
Johnson, Carl	Customized Energy Solutions, Ltd.	Transmission Owner
Jahannan Nathanial	Appelanting Device Company (AFD Companting)	Transmission Owner
Johnson, Nathaniel	Appalachian Power Company (AEP Generation)	1
Johnston, David	Other	
Joshipura, Neil	Virginia State Corporation Commission	Other Supplier
Kauffman, Brian	Enel X North America, Inc.	Caller Cappiller
Kayne, Samuel	Delaware PSC	Other Supplier
Kelly, Stephen	Brookfield Renewable Trading and Marketing LP (BSMH)	
Kennedy, Thomas	Commonwealth Edison Company	
ricinica), ricinica	Sommer Lands Company	Generation Owner
Kilgallen, Kevin	Avangrid Renewables, LLC	
Kimmel, David	PJM Interconnection	None
King, Matthew	GDS	
Knittle, Kristofer	Electric Power Engineers, Inc.	
,	 	Transmission Owner
Koehler, Nicolas	Appalachian Power Company (AEP Transmission)	
		Other Supplier
Kogut, George	New York Power Authority	
Kozhuharov Dimitar	State Commissions	
Kozhuharov, Dimitar	State Cultillissions	l





Langbein, Peter	PJM Interconnection	None
Lee, Lori Murphy	PJM Interconnection	None
, , ,		Transmission Owner
Legates, Katherine	Appalachian Power Company (AEP Generation)	
Levitt, Andrew	PJM Interconnection	None
		Electric Distributor
Lieberman, Steven	American Municipal Power, Inc.	
Liu, Jay	PJM Interconnection	None
		Transmission Owner
Lousos, Alexandros	AMP Transmission, LLC	
		Transmission Owner
LOWE, CONNIE	Dominion Virginia Power	Transfering Owner
		Transmission Owner
Lyakhovich, Leonid	Public Service Electric & Gas Company	
Mabry, David	McNees Wallace & Nurick LLC	
Malladi, Brindavani	Arevon Energy Management	
Marcino, Angelo	PJM Interconnection	None
Mariam, Yohannes	Office of the People's Counsel for the District of Columbia	
martin, Valerie	Federal Energy Regulatory Commission	
		Transmission Owner
mason, julie	Duke Energy Ohio, Inc.	
		Other Supplier
Matheson, Doug	Enel X North America, Inc.	N.
McGlynn, Paul	PJM Interconnection	None
		Transmission Owner
McInerney, Timothy	Commonwealth Edison Company	T
		Transmission Owner
Midgley, Sharon	Exelon Business Services Company, LLC	None
Morelli, Lisa	PJM Interconnection	
		Generation Owner
Newman, Jonathan	AES Energy Storage, LLC	Other Supplier
		Other Supplier
Nix, Emma	Jersey Green Energy LLC	Electric Distributor
Notes Object	A communication of the	Licetic Distributor
Norton, Chris	American Municipal Power, Inc.	Transmission Owner
Ondayko Brook	AED Energy Portners Inc. (AED Con Becourses)	
Ondayko, Brock	AEP Energy Partners, Inc. (AEP Gen Resources)	Other Supplier
Pakela, Greg	DTE Energy Trading, Inc.	
i anoia, orog	Die enorgy fraumy, mo.	Electric Distributor
Parker, Amanda	Pennsylvania Electric Company	
,	,	
Parkison, Sara	University of Delaware	





		Transmission Owner
Peoples, John	Duquesne Light Company	
Phillips, Darlene	PJM Interconnection	None
Pilong, Melissa	PJM Interconnection	None
- g ,		Transmission Owner
Polka, Joseph	Duquesne Light Company	
Poulos, Greg	PJM Committee Voting Generic Account	
		Transmission Owner
Pratt, Nicholas	PPL Electric Utilities Corp. dba PPL Utilities (TO)	
Price, Ruth	Delaware Division of the Public Advocate	Florida Distriction
		Electric Distributor
Procuniar, Jason	Buckeye Power, Inc.	Transmission Owner
D. of Michael	Positive Market Positive	Transmission owner
Purdie, Michael	Dominion Virginia Power	Transmission Owner
Quier, David	PPL Electric Utilities Corp. dba PPL Utilities (TO)	
Rahimi, Farrokh	Open Access Technology International, Inc.	None
·		
Rahmes, Lawrence	Electric Power Engineers	Electric Distributor
Rainey, John	Northern Virginia Electric Cooperative (NOVEC)	
Reagan, Ryann	New Jersey Board of Public Utilities	
Reder, Wanda	PPL	
Robinson, Becky	vistra energy	
Rodriguez, Tomas	Organization of PJM States, Inc.	
		Transmission Owner
Rooney, Alexa	PPL Electric Utilities Corp. dba PPL Utilities (TO)	
		Transmission Owner
Rosenblatt, Alex	Duquesne Light Company	Transmission Owner
De land land	DDL Flood's HEEK of Octood to DDL HEEK of OF)	Transmission owner
Rouland, James	PPL Electric Utilities Corp. dba PPL Utilities (LSE)	Transmission Owner
Rumsey, Amanda	PPL Electric Utilities Corp. dba PPL Utilities (TO)	
Rutigliano, Tom	Natural Resources Defense Council	
Nullyllano, Tolli	Natural Resources Defense Council	Transmission Owner
Sailers, Bruce	Duke Energy Ohio, Inc. (EDC)	
Salet, Sal	PPL Electric Utilities Corp. dba PPL Utilities (LSE)	
Sasser, Jonathan	Customized Energy Solutions, Ltd.	None
oucou, condition	Castomized Energy Columbia, Etc.	Generation Owner
Scarpignato, David	Calpine Energy Services, L.P.	
<u>.</u>		Other Supplier
Schisler, Kenneth	Enerwise Global Technologies, LLC	
Schuyler, Ken	PJM Interconnection	None
	PJM Interconnection	





		Transmission Owner
Seireg, Bahaa	Rockland Electric Company	
.	·	Transmission Owner
Sharkazy III, William	PPL Electric Utilities Corp. dba PPL Utilities (LSE)	
		Transmission Owner
Shearer, Evan	Duke Energy Business Services LLC	
Shukla, Tanmay	Environmental Law and Policy Center	
		Transmission Owner
Smith, Mark	AEP Energy Partners, Inc. (AEP Retail)	
Solomon, Greg	Peak Power Inc	
		Transmission Owner
Sorrels, James	AEP Appalachian Transmission Company, Inc.	
Oladalara - Dahara	DIMINISTRA	None
Stadelmeyer, Rebecca	PJM Interconnection	None
Stefanowicz, Vincent	PJM Interconnection	
<u> </u>		Transmission Owner
Stern, Alexander	Public Service Electric & Gas Company	
		Generation Owner
Stupar, Rob	Invenergy Energy Management LLC	
		Transmission Owner
Sun, Haibin	Exelon Business Services Company, LLC	Transmission Owner
		Transmission Owner
Svenson, Heather	Public Service Electric & Gas Company	Other Supplier
0 1 11 15 1	7 15 0111	Outer oupplier
Swalwell, Brad	Tangent Energy Solutions, Inc.	None
Sweeney, Rory	GT Power Group, LLC	1.0.0
Swenson, Kristin	Midcontinent Independent Sys Op, Inc. (CTS)	None
Tacka, Natalie	PJM Interconnection	
		Transmission Owner
Taylor, Robert	Commonwealth Edison Company	Generation Owner
		Generation Owner
Thundiyil, Kevin	Exelon Generation Co., LLC (NEV_XLON)	
Tighe, Andrea	CAPS	
Tobia, James	FirstEnergy Services	
Tyler, Catherine	Monitoring Analytics	
Walker, Jacqueline	Duke Energy Business Services LLC	
Walter, Laura	PJM Interconnection	None
		Other Supplier
Watson, Betty	Affirmed Energy LLC	
		Other Supplier
Weber, Adam	Union Electric Company d/b/a Ameren Missouri	
Wehnes, Kathleen	Maryland Department of the Environment	





		Electric Distributor
Wehr, Christopher	Ohio Edison Company (EDC)	
Wharton, Matthew	Guidehouse Inc	
White, Brett	Brett White	
Whitehead, Jeffrey	GT Power Group	
		Transmission Owner
Whitmoyer, Bernie	Jersey Central Power & Light Company	
Willey, Amy	Delaware Public Service Commission	
		Transmission Owner
Wilmoth ES, Emily	Dominion Virginia Power	
Wilson, De Andre	Maryland Public Service Commission	
		Other Supplier
Wisersky, Megan	Madison Gas & Electric Co.	
Wisniewski, Christian	Centrica Business Solutions	
Wray, Gizelle	Solar Energy Industries Association (SEIA)	
Xenopoulos, Damon	Other	
Yeaton, Andrea	PJM Interconnection	None
Yoder, Michael	RTO Insider	
Yoo, Kyungjin	Monitoring Analytics	
Zhang, Mike	PJM Interconnection	None

Antitrust:

You may not discuss any topics that violate, or that might appear to violate, the antitrust laws including but not limited to agreements between or among competitors regarding prices, bid and offer practices, availability of service, product design, terms of sale, division of markets, allocation of customers or any other activity that might unreasonably restrain competition. If any of these items are discussed the chair will re-direct the conversation. If the conversation still persists, parties will be asked to leave the meeting or the meeting will be adjourned.

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Join a Meeting

- 1. Join meeting in the Webex desktop client
- 2. Enter name (First and Last*) and corporate email
- 3. Under "Select Audio Option" select "Call Me" option from the dropdown menu

*Note: Anonymous users or those using false usernames or emails will be dropped from the teleconference.

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