

**DER and Inverter-based Resources Subcommittee – EDC Coordination workshop on DER  
WebEx Only  
July 15, 2021  
2:00 p.m. – 5:00 p.m. ET**

**Administration (2:00 – 2:10)**


1. Scott Baker opened the meeting and review the agenda.
2. Hamad Ahmed reviewed the meeting participation guidelines.

**Order 2222 (2:10 – 4:50)**

3. Joint utilities provided feedback on the PJM straw proposal in the areas of settlements and market participation.
  - Chris Wehr, First Energy, discussed concerns, questions, thoughts and clarifying questions on weighting factors, mapping for location requirements and nodal vs. multi-nodal participation.
  - Chris also discussed different items, concerns and thoughts on Market participation models, cost based offers, single vs multiple DER aggregators, DER Aggregation Size (min/max) requirements, metering & telemetry and put forth several clarifying questions on the Market participation model and metering and telemetry.
  - Gary Hartman, PSEG, provided EDC feedback on PJM straw proposal on double counting.
4. Stakeholders discussed using the Order 2222 matrix as a way to track feedback on the PJM straw proposal.
  - Stakeholders discussed and added a new requirement to the Order 2222 matrix; Implementation timeline.

**Action items and next meeting agenda (4:50-5:00)**

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

<i>Future Meeting Dates and Materials</i>			Materials Due to Secretary 	Materials Published
<i>Date</i>	<i>Time</i>	<i>Location</i>	5 p.m.	4 p.m.
<i>July 23, 2021</i>	9:00 - 4:00	WebEx	<b>July 15, 2021</b>	<b>July 20, 2021</b>
<i>August 10, 2021–EDC Coordination workshop</i>	3:00 – 5:00	WebEx	<b>August 2, 2021</b>	<b>August 5, 2021</b>
<i>August 16, 2021</i>	9:00 – 12:00	WebEx	<b>August 6, 2021</b>	<b>August 11, 2021</b>
<i>September 14, 2021</i>	9:00 – 12:00	WebEx	<b>September 3, 2021</b>	<b>September 9, 2021</b>
<i>September 21, 2021–EDC Coordination workshop</i>	3:00 – 5:00	WebEx	<b>September 13, 2021</b>	<b>September 16, 2021</b>

<i>October 22, 2021</i>	9:00 – 4:00	WebEx	<b>October 14, 2021</b>	<b>October 19, 2021</b>
<i>November 9, 2021-EDC Coordination workshop</i>	3:00 – 5:00	WebEx	<b>November 1, 2021</b>	<b>November 4, 2021</b>
<i>November 22, 2021</i>	9:00 – 3:00	WebEx	<b>November 12, 2021</b>	<b>November 17, 2021</b>
<i>December 9, 2021-EDC Coordination workshop</i>	3:00 – 5:00	WebEx	<b>December 1, 2021</b>	<b>December 6, 2021</b>
<i>December 21, 2021</i>	9:00 – 4:00	WebEx	<b>December 13, 2021</b>	<b>December 16, 2021</b>

Author: Hamad Ahmed

## WebEx Meeting Attendance

<b>Name</b>	<b>Company Name</b>	<b>Sector</b>
Hamad Ahmed	PJM Interconnection	None
Malcolm Ainspan	NRG Curtailment Solutions, Inc.	Other Supplier
William Allen	Commonwealth Edison Company	Transmission Owner
David Anders	PJM Interconnection	None
todd aquino	Pine Gate Mid-Atlantic, LLC	
Riyasat Azim	New Jersey Board Of Public Utilities	
Jeff Baker	PJM Connect	
Scott Baker	PJM Interconnection	None
George Beam	PPL Elec Utilities Corp dba PPL Utilities (PPL POLR Small C&I)	Transmission Owner
Madalyn Beban	PJM Interconnection	None
Jim Benчек	FirstEnergy Corporation	
Aaron Berner	PJM Interconnection	None
Tyler Berton	AEP Appalachian Transmission Company, Inc.	Transmission Owner



Donnie Bielak	PJM Interconnection	None
Michael Borgatti	PJM Committee Voting Generic Account	
John Borkoski	MD Public Service Commission	
Joe Bowring	Monitoring Analytics	
Aaron Breidenbaugh	Rodan Energy Solutions (USA) Inc.	Other Supplier
Patrick Bruno	PJM Interconnection	None
Michael Bryson	PJM Internal	
Kevin Burns	Open Access Technology International, Inc.	None
Jason Burwen	Iowa Utilities Board	
Zachary Callen	Illinois Commerce Commission	
Bruce Campbell	Enerwise Global Technologies, LLC	Other Supplier
David Canter	Appalachian Power Company (AEP Generation)	Transmission Owner
Edrissa Cham	Savion, LLC	
Sean Chang	Shell Energy North America (US), L.P.	Other Supplier
Iker Chocarro Aguirrebengoa	Guidehouse	
Mahila Christopher	Public Utilities Commission of Ohio	
Lucas Collette	Duquesne Light Company	Transmission Owner
Stephen Thiel ComEd	PJM Connect	
Nancy Connelly	Duke Energy Ohio, Inc.	Transmission Owner
Larry Crudup	PPL Electric Utilities Corp. dba PPL Utilities (LSE)	Transmission Owner



Louis D'Alessandris	American Transmission Systems, Inc.	Transmission Owner
Elizabeth Davis	PJM Interconnection	None
James Davis	Dominion Energy Generation Marketing, Inc.	Generation Owner
Joseph DeLosa	New Jersey Board of Public Utilities	
Brett Denby	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Thomas DeVita	PJM Interconnection	None
Meredith Dibert	Pennsylvania Department of Environmental Protection	
Laura DiNicola	firstenergy	
Mamadou Diong	Dominion Virginia Power	Transmission Owner
Ryan Dolan	Dayton Power & Light Company (The) (EDC)	Transmission Owner
Christin Domian	Duquesne Light Company	Transmission Owner
Rick Drom	Rick Drom	
Ilyana Dropkin	PJM Interconnection	None
Chuck Dugan	East Kentucky Power Cooperative, Inc.	Transmission Owner
Julian Echeverri	Opdenergy	
Rachel Elkins	American Transmission Systems, Inc.	Transmission Owner



David Ellis	Public Service Electric & Gas Company	Transmission Owner
John Feller	PPL Electric Utilities Corp. dba PPL Utilities (TO)	Transmission Owner
Guy Filomena	Customized Energy Solutions, Ltd.	None
Kenneth Foladare	Geenex Solar LLC	Other Supplier
Sheila Foley	PJM Interconnection	None
Adrien Ford	Old Dominion Electric Cooperative	Electric Distributor
Denise Foster Cronin	East Kentucky Power Cooperative, Inc.	Transmission Owner
Darrell Frogg	PJM Interconnection	None
Janice Fuller	NextEra Energy Marketing, LLC	Other Supplier
Peter Fuller	Autumn Lane Energy Consulting LLC	
Michael Gahimer	Indiana Office of Utility Consumer Counselor (IN OUCC)	
Jill Gates	PJM Interconnection	
Terry Gates	Appalachian Power Company (AEP Generation)	Transmission Owner
Debbie Gebolys	Other	
Gabrielle Genuario	PJM Interconnection	None
Rehan Gilani	ConEdison Energy, Inc.	Other Supplier



Suzanne Glatz	PJM Interconnection	None
Craig Glazer	PJM Interconnection	None
Marlena Gouin	Pennsylvania Electric Company	Electric Distributor
Luke Granstrand	Dominion Virginia Power	Transmission Owner
Michele Greening	PJM Interconnection	None
Gary Greiner	PSEG Energy Resources and Trade LLC	Other Supplier
Vince Guntle	American PowerNet Management, L.P.	End-Use Customer
Erik Hanser	Michigan Public Service Commission	
Gary Hartman	PPL Electric Utilities Corp. dba PPL Utilities (LSE)	Transmission Owner
David Hastings	PJM Committee Voting Generic Account	
Thomas Hauske	PJM Interconnection	None
Chad Hirsh	Duquesne Light Company	Transmission Owner
Tom Hoatson	West Deptford Energy, LLC	Generation Owner
Lynn Marie Horning	Customized Energy Solutions, Ltd.	None
John Horstmann	Dayton Power & Light Company (The)	Transmission Owner



Steven Hughes	PPL Electric Utilities Corp. dba PPL Utilities (LSE)	Transmission Owner
Gerit Hull	American Municipal Power, Inc.	Electric Distributor
Tom Hyzinski	GT Power Group, LLC	None
Arthur Iler	Indiana Office of Utility Consumer Counselor	
Diane Janicki	Boston Energy Trading and Marketing LLC	Other Supplier
Gina Jardot	NRG Curtailment Solutions, Inc.	Other Supplier
William Jett	Duke Energy Business Services LLC	Transmission Owner
Carl Johnson	Customized Energy Solutions, Ltd.	None
Nathaniel Johnson	Appalachian Power Company (AEP Generation)	Transmission Owner
David Johnston	Other	
Brian Kauffman	Enel X North America, Inc.	Other Supplier
Samuel Kayne	Delaware PSC	
Stephen Kelly	Brookfield Renewable Trading and Marketing LP (BSMH)	Other Supplier
Nicolas Koehler	Appalachian Power Company (AEP Transmission)	Transmission Owner
George Kogut	New York Power Authority	Other Supplier
Dimitar Kozhuharov	State Commissions	
Lori Murphy Lee	PJM Interconnection	None
Steven Lieberman	American Municipal Power, Inc.	Electric Distributor

CONNIE LOWE	Dominion Virginia Power	Transmission Owner
Leonid Lyakhovich	Public Service Electric & Gas Company	Transmission Owner
David Mabry	McNees Wallace & Nurick LLC	
Yohannes Mariam	Office of the People's Counsel for the District of Columbia	
Timothy Martin	Green River Holdings, LLC	Generation Owner
Valerie martin	Federal Energy Regulatory Commission	
julie mason	Duke Energy Ohio, Inc.	Transmission Owner
Katharine McCormick	Illinois Commerce Commission	
Paul McGlynn	PJM Interconnection	None
Timothy McInerney	Commonwealth Edison Company	Transmission Owner
Karthik Mekala	OATI	
Kevin meridionale	Jersey Central Power & Light Company	Transmission Owner
Sharon Midgley	Exelon Business Services Company, LLC	Transmission Owner
James Mirabile	Baltimore Gas and Electric Company	Transmission Owner
Lisa Morelli	PJM Interconnection	None
Emma Nix	Jersey Green Energy LLC	Other Supplier



Chris Norton	American Municipal Power, Inc.	Electric Distributor
Brock Ondayko	AEP Energy Partners, Inc. (AEP Gen Resources)	Transmission Owner
Sara Parkison	University of Delaware	
keyurbhai patel	PJM Interconnection	None
John Peoples	Duquesne Light Company	Transmission Owner
Darlene Phillips	PJM Interconnection	None
Evan Pierce	Amazon Energy LLC	Other Supplier
Christopher Pilog	PJM Interconnection	None
Melissa Pilog	PJM Interconnection	None
Joseph Polka	Duquesne Light Company	Transmission Owner
Nicholas Pratt	PPL Electric Utilities Corp. dba PPL Utilities (TO)	Transmission Owner
Ruth Price	Delaware Division of the Public Advocate	
Jason Proconiar	Buckeye Power, Inc.	Electric Distributor
Farrokh Rahimi	Open Access Technology International, Inc.	None
John Rainey	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Tomas Rodriguez	Organization of PJM States, Inc.	

John Rohrbach	Wabash Valley Power Association, Inc.	Electric Distributor
Alexa Rooney	PPL Electric Utilities Corp. dba PPL Utilities (TO)	Transmission Owner
Alex Rosenblatt	Duquesne Light Company	Transmission Owner
James Rouland	PPL Electric Utilities Corp. dba PPL Utilities (LSE)	Transmission Owner
Amanda Rumsey	PPL Electric Utilities Corp. dba PPL Utilities (TO)	Transmission Owner
Jonathan Sasser	Customized Energy Solutions, Ltd.	None
David Scarpignato	Calpine Energy Services, L.P.	Generation Owner
August Seibel	Black Dog Insights	
Bahaa Seireg	Rockland Electric Company	Transmission Owner
Greg Solomon	Peak Power Inc	
James Sorrels	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Trevor Sprague	Jersey Green Energy LLC	Other Supplier
Vincent Stefanowicz	PJM Interconnection	None
Ed Stein	Ohio Edison Company	Electric Distributor

Alexander Stern	Public Service Electric & Gas Company	Transmission Owner
Brad Swalwell	Tangent Energy Solutions, Inc.	Other Supplier
Rory Sweeney	GT Power Group, LLC	None
Kristin Swenson	Midcontinent Independent Sys Op, Inc. (CTS)	
Craig Taborsky	Open Access Technology International, Inc.	None
Kevin Thundiyl	Exelon Generation Co., LLC (NEV_XLON)	Generation Owner
Andrea Tighe	CAPS	
James Tobia	FirstEnergy Services	
Catherine Tyler	Monitoring Analytics	
Jacqueline Walker	Duke Energy Business Services LLC	Transmission Owner
Kathleen Wehnes	Maryland Department of the Environment	
Christopher Wehr	Ohio Edison Company (EDC)	Electric Distributor
Matthew Wharton	Guidehouse Inc	
Jeffrey Whitehead	GT Power Group	
Amy Willey	Delaware Public Service Commission	
Megan Wisersky	Madison Gas & Electric Co.	Other Supplier
Sally Witt	Siemens Industry, Inc.	Other Supplier
Damon Xenopoulos	Other	
Andrea Yeaton	PJM Interconnection	None
Michael Yoder	RTO Insider	
Kyungjin Yoo	Monitoring Analytics	

Vivian Younes

PPL Electric Utilities Corp. dba PPL Utilities (LSE)

Transmission Owner

**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.

**Code of Conduct:**

As a mandatory condition of attendance at today's meeting, attendees agree to adhere to the PJM Code of Conduct as detailed in PJM Manual M-34 section 4.5, including, but not limited to, participants' responsibilities and rules regarding the dissemination of meeting discussion and materials.

**Public Meetings/Media Participation:**

Unless otherwise noted, PJM stakeholder meetings are open to the public and to members of the media. Members of the media are asked to announce their attendance at all PJM stakeholder meetings at the beginning of the meeting or at the point they join a meeting already in progress. Members of the Media are reminded that speakers at PJM meetings cannot be quoted without explicit permission from the speaker. PJM Members are reminded that "detailed transcriptional meeting notes" and white board notes from "brainstorming sessions" shall not be disseminated. Stakeholders are also not allowed to create audio, video or online recordings of PJM meetings. PJM may create audio, video or online recordings of stakeholder meetings for internal and training purposes, and your participation at such meetings indicates your consent to the same.

**Participant Identification in Webex:**

When logging into the Webex desktop client, please enter your real first and last name as well as a valid email address. Be sure to select the "call me" option. PJM support staff continuously monitors Webex connections during stakeholder meetings. Anonymous users or those using false usernames or emails will be dropped from the teleconference.

**On the Phone, Dial**



to Mute/Unmute

**Linking Teleconference Connection to Webex**

When logging in to the meeting, access Webex first and select the "call me" feature to receive a direct call to your phone. Using this feature will connect your name to your Webex presence.

**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.*