

DER and Inverter-based Resources Subcommittee – EDC Coordination Workshop
WebEx Only
September 21, 2021
3:00 p.m. – 5:00 p.m. ET

Administration (3:00 – 3:05)

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

Order 2222 – Feedback on PJM Staff Proposal on DER Aggregation from the utilities (3:05 – 4:55)

3. PJM presented and stakeholders discussed an updated version of the operational coordination framework between RTO, market participant, and distribution utility.
 - Donnie Bielak, PJM, discussed DERA real-time wholesale Market Operation and Communication Model highlighting key relationships between PJM, Market agent, Dispatch agent, Utility and DERA.
4. Sue Glatz, PJM, reviewed its proposal to ensure that DER participating in a DERA are accounted for in the PJM transmission planning model.
 - Sue reviewed several PJM Planning requirements highlighting the status quo for retail connected BTM DERs and concerns with expanded DER participation and continued use of netted generation model. Sue discussed proposed data requirements for Planning for each DER within a DER aggregation and a simplified example of netted and aggregated modeling.
 - Sue reviewed several key points for obtaining Planning modeling data.

Action items and next meeting agenda (4:55 – 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>September 24, 2021</i>	9:00 – 4:00	WebEx	September 16, 2021	September 21, 2021
<i>October 22, 2021</i>	9:00 – 4:00	WebEx	October 14, 2021	October 19, 2021
<i>November 9, 2021-EDC Coordination workshop</i>	3:00 – 5:00	WebEx	November 1, 2021	November 4, 2021
<i>November 22, 2021</i>	9:00 – 3:00	WebEx	November 12, 2021	November 17, 2021
<i>December 9, 2021-EDC Coordination workshop</i>	3:00 – 5:00	WebEx	December 1, 2021	December 6, 2021
<i>December 21, 2021</i>	9:00 – 4:00	WebEx	December 13, 2021	December 16, 2021

Author: Hamad Ahmed

WebEx Meeting Attendance

Name	Company Name	Sector
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 Benchek	FirstEnergy Corporation	
Stephen Bennett	PJM Interconnection	None
Emanuel Bernabeu	PJM	
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	
Glen Boyle	PJM Interconnection	None
Patrick Bruno	PJM Interconnection	None
Michael Bryson	PJM Internal	
Tim Burdis	PJM Interconnection	None
Jennifer Burke	Guidehouse Inc.	None
Kevin Burns	Open Access Technology International, Inc.	None
Michelle Butler	Guidehouse	
Zachary Callen	Illinois Commerce Commission	
Bruce Campbell	Enerwise Global Technologies, LLC	Other Supplier
David Canter	Appalachian Power Company (AEP Generation)	Transmission Owner
Onyinye Caven	Salil LLC	
Sean Chang	Shell Energy North America (US), L.P.	Other Supplier
Iker Chocarro Aguirrebengoa	RWE Renewables Americas, LLC	Generation Owner

Mahila Christopher	Public Utilities Commission of Ohio	
Roseanne Circelli	Public Service Electric & Gas Company	Transmission Owner
Stephen Thiel ComEd	PJM Connect	
Nancy Connelly	Duke Energy Ohio, Inc.	Transmission Owner
Thomas Cremer	Centrica Business Solutions Optimize, LLC	Other Supplier
Danielle Croop	PJM Interconnection	None
Jeff Currier ES	Dominion Virginia Power	Transmission Owner
Louis D'Alessandris	American Transmission Systems, Inc.	Transmission Owner
Padmaja Dasari	Dayton Power & Light Company (The) (EDC)	Transmission Owner
Elizabeth Davis	PJM Interconnection	None
James Davis	Dominion Energy Generation Marketing, Inc.	Generation Owner
Joseph DeLosa	New Jersey Board of Public Utilities	
Nancy Demers	Kentucky Public Service Commission	
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
Nicolae Dumitriu	PJM Interconnection	None
Rachel Elkins	American Transmission Systems, Inc.	Transmission Owner
David Ellis	Public Service Electric & Gas Company	Transmission Owner
zhenyu fan	PJM Interconnection	None
Guy Filomena	Customized Energy Solutions, Ltd.	None
Daniel Fipke	174 Power Global	
Brian Fitzpatrick	PJM Interconnection	None

Kenneth Foladare	Geenex Solar LLC	Other Supplier
Adrien Ford	Old Dominion Electric Cooperative	Electric Distributor
Denise Foster Cronin	East Kentucky Power Cooperative, Inc.	Transmission Owner
Janice Fuller	NextEra Energy Marketing, LLC	Other Supplier
Michael Gahimer	Indiana Office of Utility Consumer Counselor (IN OUCC)	
Jill Gates	PJM Interconnection	
Terry Gates	Appalachian Power Company (AEP Generation)	Transmission Owner
Rehan Gilani	ConEdison Energy, Inc.	Other Supplier
Suzanne Glatz	PJM Interconnection	None
Craig Glazer	PJM Interconnection	None
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	
David Hastings	PJM Committee Voting Generic Account	
Jason Hathcock	Strata Solar	
Thomas Hauske	PJM Interconnection	None
Tom Hoatson	West Deptford Energy, LLC	Generation Owner
Nels Hoplin	Trans-Allegheny Interstate Line Company	Transmission Owner
Lynn Marie Homing	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
Benjamin Hunter	BSHunter	
Tom Hyzinski	gtpghyzinsk	
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

Augustus Johnson	Dominion Virginia Power (EDC)	Transmission Owner
Carl Johnson	Customized Energy Solutions, Ltd.	None
Nathaniel Johnson	Appalachian Power Company (AEP Generation)	Transmission Owner
David Johnston	Other	
Ibrahima Kalle	Tibiri Energy Group	
Brian Kauffman	Enel X North America, Inc.	Other Supplier
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 Kozuharov	State Commissions	
Katherine Legates	Appalachian Power Company (AEP Generation)	Transmission Owner
Cecilia Liang-Nicol	Allegheny Power (MonPwr Gen)	
Steven Lieberman	American Municipal Power, Inc.	Electric Distributor
David Lopez	Center for Renewables Integration	
CONNIE LOWE	Dominion Virginia Power	Transmission Owner
David Mabry	McNees Wallace & Nurick LLC	
Anthony Madonna	EnergyHub	
Angelo Marcino	PJM Interconnection	None
Yohannes Mariam	Office of the People's Counsel for the District of Columbia	
Doug Matheson	Enel X North America, Inc.	Other Supplier
John McCombIII	PJM Interconnection	None
Katharine McCormick	Illinois Commerce Commission	
Steve McElwee	PJM Interconnection	None
Paul McGlynn	PJM Interconnection	None
Timothy McInemey	Commonwealth Edison Company	Transmission Owner
Sharon Midgley	Exelon Business Services Company, LLC	Transmission Owner
Mike Nester	Dominion Virginia Power (EDC)	Transmission Owner
Ryan Nice	PJM Interconnection	
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
Amanda Parker	Pennsylvania Electric Company	Electric Distributor
Sara Parkison	University of Delaware	
Martin Paszek	OSI Digital Grid Solutions	
keyurbhai patel	PJM Interconnection	None
John Peoples	Duquesne Light Company	Transmission Owner
Asanga Perera	New York ISO	
Darlene Phillips	PJM Interconnection	None
Christopher Pilong	PJM Interconnection	None
Joseph Polka	Duquesne Light Company	Transmission Owner
Greg Poulos	PJM Committee Voting Generic Account	
Nicholas Pratt	PPL Electric Utilities Corp. dba PPL Utilities (TO)	Transmission Owner
Ruth Price	Delaware Division of the Public Advocate	
John Rainey	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Wanda Reder	PPL	
Edward Rich	PJM Interconnection	
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
Eric Runge	Open Access Technology International, Inc.	None
Tom Rutigliano	Natural Resources Defense Council	
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
Evan Shearer	Duke Energy Business Services LLC	Transmission Owner
Mark Smith	AEP Energy Partners, Inc. (AEP Retail)	Transmission Owner
Greg Solomon	Pennsylvania Public Utility Commission	

James Sorrels	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Trevor Sprague	Jersey Green Energy LLC	Other Supplier
Sean Sproul	AMP Solar US Services, LP.	
Vincent Stefanowicz	PJM Interconnection	None
Ed Stein	Ohio Edison Company	Electric Distributor
Alexander Stern	Public Service Electric & Gas Company	Transmission Owner
Haibin Sun	Exelon Business Services Company, LLC	Transmission Owner
Heather Svenson	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)	
Ryan Thompson	Metis Energy, LLC	None
Kevin Thundiyl	Exelon Generation Co., LLC (NEV_XLON)	Generation Owner
Andrea Tighe	CAPS	
James Tobia	FirstEnergy Services	
Jianzhong Tong	University of Delaware	
Catherine Tyler	Monitoring Analytics	
Jerry Warchol	Dominion Virginia Power (EDC)	Transmission Owner
Kathleen Wehnes	Maryland Department of the Environment	
Christopher Wehr	Ohio Edison Company (EDC)	Electric Distributor
Brett White	Invenergy, LLC	Generation Owner
Jeffrey Whitehead	GT Power Group	
Bernie Whitmoyer	Jersey Central Power & Light Company	Transmission Owner
Amy Willey	Delaware Public Service Commission	
Femie Williams	East Kentucky Power Cooperative, Inc.	Transmission Owner
Emily Wilmoth ES	Dominion Virginia Power	Transmission Owner
De Andre Wilson	Maryland Public Service Commission	
Megan Wisersky	Madison Gas & Electric Co.	Other Supplier
Damon Xenopoulos	Other	
Andrea Yeaton	PJM Interconnection	None

Jin An Yi	jinan	
Michael Yoder	RTO Insider	
Kyungjin Yoo	Monitoring Analytics	
Vivian Younes	PPL Electric Utilities Corp. dba PPL Utilities (LSE)	Transmission Owner

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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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Minutes

As of October 27, 2021

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