

**DER and Inverter-based Resources Subcommittee – EDC Coordination workshop on DER
WebEx Only
August 10, 2021
3:00 p.m. – 5:00 p.m. ET**

Administration (3:00 – 3:05)


1. Brian Chmielewski, PJM, opened the meeting and reviewed the agenda.
2. Hamad Ahmed, secretary, reviewed the meeting participation guidelines.

Order 2222 – (3:05 – 4:55)

3. Utilities will provide feedback on the PJM straw proposal in the areas of Interconnection plus registration and Planning.
 - Michele Bair, AEP, briefly discussed several topics within the PJM strawman proposal related to interconnections and registration. Michele also reviewed two distinct parallel processes for DERA registration i.e. market participation and State interconnection.
 - Ryan Dolan, Dayton Power & Light Company, discussed the utilities response to the PJM strawman proposal related to planning, highlighting several potential requirements regarding modeling of DER resources. Ryan also reviewed five distinct categories of DER resources for modeling purposes: Inverter-based Resources (IV-B), Non-Inverter based Resources (NIV-B), Battery Energy Storage System (BESS) and Relocatable Storage – Electric Vehicles (RS-EV).
 - Ryan also discussed DERA Market Registration Inputs and DERA Market Registration EDC/DO Outputs and reviewed an example of Pnode/Enode transmission planning model representation.

Action items and next meeting agenda (4:55 – 5:00)

4. The facilitation team reviewed action items from the meeting and took requests for future agenda items.
 - Gerry Warchol, Dominion Energy, requested that PJM provide comment(s) on the reverse flows from existing DERA at substations on the southern border of Dominion energy.
 - PJM to upload updated slides for item 03 after EDC's make necessary edits for clarification.

<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>August 16, 2021</i>	9:00 – 12:30	WebEx	August 6, 2021	August 11, 2021
<i>August 17, 2021</i>	3:00 – 5:00	WebEx	August 9, 2021	August 12, 2021
<i>September 14, 2021</i>	9:00 – 12:00	WebEx	September 3, 2021	September 9, 2021

<i>September 21, 2021–EDC Coordination workshop</i>	3:00 – 5:00	WebEx	September 13, 2021	September 16, 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
William Allen	PPL Electric Utilities Corp. dba PPL Utilities (LSE)	Transmission Owner
David Anders	PJM Interconnection	None
Scott Baker	PJM Interconnection	None
George Beam	PPL Elec Utilities Corp dba PPL Utilities (PPL POLR Small C&I)	Transmission Owner
Emanuel Bernabeu	PJM	
Donnie Bielak	PJM Interconnection	None
John Borkoski	MD Public Service Commission	
Joe Bowring	Monitoring Analytics	
Glen Boyle	PJM Interconnection	None
Aaron Breidenbaugh	Rodan Energy Solutions (USA) Inc.	Other Supplier
Patrick Bruno	PJM Interconnection	None
Michael Bryson	PJM Internal	
Jennifer Burke	Guidehouse Inc.	None
Zachary Callen	Illinois Commerce Commission	
Bruce Campbell	Enerwise Global Technologies, LLC	Other Supplier
David Canter	Appalachian Power Company (AEP Generation)	Transmission Owner
Gregory Carmean	Organization of PJM States, Inc.	
Sean Chang	Shell Energy North America (US), L.P.	Other Supplier

Brian Chmielewski	PJM Interconnection	None
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
Randel Cooper	Pennsylvania Public Utility Commission	
Danielle Croop	PJM Interconnection	None
Louis D'Alessandris	American Transmission Systems, Inc.	Transmission Owner
Elizabeth Davis	PJM Interconnection	None
James Davis	Dominion Energy Generation Marketing, Inc.	Generation Owner
Mike Davis	174 Power Global	
Joseph DeLosa	New Jersey Board of Public Utilities	
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
Cristina Drivas	NextEra Energy Marketing, LLC	Other Supplier
Ilyana Dropkin	PJM Interconnection	None
Chuck Dugan	East Kentucky Power Cooperative, Inc.	Transmission Owner
GABRIEL EJEBE	New Jersey Board Of Public Utilities	
Rachel Elkins	American Transmission Systems, Inc.	Transmission Owner
David Ellis	Public Service Electric & Gas Company	Transmission Owner
zhenyu fan	PJM Interconnection	None
Anisha Fernandes	OSI Digital Grid Solutions	
Guy Filomena	Customized Energy Solutions, Ltd.	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
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	
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	Jersey Green Energy LLC	Other Supplier
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
Thomas Hauske	PJM Interconnection	None
Chad Heitmeyer	Appalachian Power Company (AEPSCO)	Transmission Owner
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	gtpghyzinsk	
Arthur Iler	Indiana Office of Utility Consumer Counselor	
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
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 Kozuharov	State Commissions	
Viktoriya Kudryavtseva	Banpu North America	
Lori Murphy Lee	PJM Interconnection	None
Katherine Legates	Appalachian Power Company (AEP Generation)	Transmission Owner
Cecilia Liang-Nicol	Allegheny Power (MonPwr Gen)	
Steven Lieberman	American Municipal Power, Inc.	Electric Distributor
CONNIE LOWE	Dominion Virginia Power	Transmission Owner
David Mabry	McNees Wallace & Nurick LLC	
Angelo Marcino	PJM Interconnection	None
Yohannes Mariam	Office of the People's Counsel for the District of Columbia	
Valerie martin	Federal Energy Regulatory Commission	
Timothy McInerney	Commonwealth Edison 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
James Okenfuss	Savion, LLC	
Brock Ondayko	AEP Energy Partners, Inc. (AEP Gen Resources)	Transmission Owner
Sara Parkison	University of Delaware	
Darlene Phillips	PJM Interconnection	None
Christopher Pulong	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	
Farrokh Rahimi	Open Access Technology International, Inc.	None
Lawrence Rahmes	Electric Power Engineers	
John Rainey	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Ryann Reagan	New Jersey Board of Public Utilities	
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
James Rouland	PPL Electric Utilities Corp. dba PPL Utilities (LSE)	Transmission Owner
Tom Rutigliano	Natural Resources Defense Council	
Jonathan Sasser	Customized Energy Solutions, Ltd.	None
David Scarpignato	Calpine Energy Services, L.P.	Generation Owner
Maida Session	Guidehouse	
Evan Shearer	Duke Energy Business Services LLC	Transmission Owner
Holly Rachel Smith	Dayton Power & Light Company (The) (EDC)	Transmission Owner
James Sorrels	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Vincent Stefanowicz	PJM Interconnection	None
Ed Stein	Ohio Edison Company	Electric Distributor

Alexander Stern	Public Service Electric & Gas Company	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)	
Craig Taborsky	Open Access Technology International, Inc.	None
Robert Taylor	Commonwealth Edison Company	Transmission Owner
Robert Taylor	OATI	
Kevin Thundiyl	Exelon Generation Co., LLC (NEV_XLON)	Generation Owner
Andrea Tighe	CAPS	
James Tobia	FirstEnergy Services	
Catherine Tyler	Monitoring Analytics	
Daniel Vargo	Allegheny Electric Cooperative, Inc.	Electric Distributor
Jacqueline Walker	Duke Energy Business Services LLC	Transmission Owner
Jerry Warchol	Dominion Virginia Power (EDC)	Transmission Owner
Betty Watson	Affirmed Energy LLC	Other Supplier
Kathleen Wehnes	Maryland Department of the Environment	
Christopher Wehr	Ohio Edison Company (EDC)	Electric Distributor
Alex Westendorf	ibvenergy partners llc	
Brett White	Invenery, LLC	Generation Owner
Jeffrey Whitehead	GT Power Group	
Amy Willey	Delaware Public Service Commission	
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	
Kyungjin Yoo	Monitoring Analytics	
Vivian Younes	PPL Electric Utilities Corp. dba PPL Utilities (LSE)	Transmission Owner

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