

**DER and Inverter-based Resources Subcommittee – EDC Coordination workshop on DER
WebEx Only
June 14, 2021
3:00 p.m. – 5:00 p.m. ET**

Administration (3:00 – 3:05)

1. Scott Baker opened the meeting and reviewed the agenda and meeting participation guidelines.

EDC Coordination – Operations (3:05 – 4:45)

2. Vince Stefanowicz, PJM, provided an overview of existing generation telemetry requirements.
 - Vince discussed data required by PJM that determines system security and stability as well as congestion and LMP and reviewed PJM manual 14D, section 4.2.2 which shows the criteria for which a generator may be required to provide real-time telemetry to PJM.
 - Vince reviewed Real-Time regulation data/terms and a flow chart outlining the process for regulation in Real-Time Operations.
3. Utilities presented on the DER operational coordination model, utility override process, telemetry, and data flow for settlements.
 - Steve Hughes, PPL, proposed a model for operations coordination and also discussed DERs multiple functionality considerations, discussed additional approach on telemetry model and emphasized flexibility in the telemetry model.
 - Utilities discussed time frames, execution, data flow around override implementation and reviewed used cases for telemetry model discussion.
 - Ed Stein, First Energy, took part in EDC data flow discussion and discussed different proposal around PowerMeter schedule.

Action items and next meeting agenda (4:45 – 5:00)

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

Future Meeting Dates

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 9, 2021-EDC Coordination workshop	3:00 – 5:00	WebEx

November 22, 2021

December 9, 2021-EDC Coordination workshop

December 21, 2021

9:00 – 3:00

3:00 – 5:00

9:00 – 4:00

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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
Katelyn Arnold	PPL Electric Utilities Corp. dba PPL Utilities (LSE)	Transmission Owner
Qamar Arsalan	Public Service Electric & Gas Company	Transmission Owner
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	
Tarik Bensala	PJM Interconnection	
Emanuel Bernabeu	PJM	
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	
Glen Boyle	PJM Interconnection	None
Aaron Breidenbaugh	Rodan Energy Solutions (USA) Inc.	Other Supplier
John Brodbeck	EDP Renewables North America LLC	Generation Owner
Patrick Bruno	PJM Interconnection	None
Michael Bryson	PJM Internal	
Kevin Burns	Open Access Technology International, Inc.	None

Jason Burwen	Iowa Utilities Board	
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
Gregory Carmean	Organization of PJM States, Inc.	
Peter Cavan	Direct Energy Business Marketing, LLC	Other Supplier
Mohan Chakragiri	ENGIE Energy Marketing NA, Inc. (Bluestone)	Other Supplier
Sean Chang	Shell Energy North America (US), L.P.	Other Supplier
Kalyan Chilukuri	Power System Consultants	
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
Lucas Collette	Duquesne Light Company	Transmission Owner
Stephen Thiel ComEd	PJM Connect	
Nancy Connelly	Duke Energy Ohio, Inc.	Transmission Owner
Danielle Croop	PJM Interconnection	None
Kristy Cude	PPL Electric Utilities Corp. dba PPL Utilities (LSE)	Transmission Owner
Jeff Currier ES	Dominion Virginia Power	Transmission Owner
Michael Dailey	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
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
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
Byron Farnsworth Jr	Wellsboro Electric Company	Electric Distributor
George Fee	Appalachian Power Company (AEP Generation)	Transmission Owner
Guy Filomena	Customized Energy Solutions, Ltd.	None
Brian Fitzpatrick	PJM Interconnection	None
Madeline Fleisher	Dickinson Wright PLLC	
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
Darrell Frogg	PJM Interconnection	None
Janice Fuller	NextEra Energy Marketing, LLC	Other Supplier
Bryan Garnett	Duke Energy Ohio, Inc.	Transmission Owner
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	
Jason Hathcock	Strata Solar	
Thomas Hauske	PJM Interconnection	None
Frederick Heinle	Office of the Peoples Counsel	
Rebecca Hilderbrand	PJM Interconnection	None
Chad Hirsh	Duquesne Light Company	Transmission Owner
Tom Hoatson	West Deptford Energy, LLC	Generation Owner
Ruth Holdbrook	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Lynn Marie Horning	Customized Energy Solutions, Ltd.	None
John Horstmann	Dayton Power & Light Company (The)	Transmission Owner
Gerit Hull	American Municipal Power, Inc.	Electric Distributor
Benjamin Hunter	BSHunter	
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
Monica Jha	PCI	
Augustus Johnson	Dominion Virginia Power (EDC)	Transmission Owner
Bethany Johnson	PPL Electric Utilities Corp. dba PPL Utilities (TO)	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

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
Katherine Legates	Appalachian Power Company (AEP Generation)	Transmission Owner
Benjamin Levitt	IHS Markit	
Steven Lieberman	American Municipal Power, Inc.	Electric Distributor
Alexandros Lousos	AMP Transmission, LLC	Transmission Owner
CONNIE LOWE	Dominion Virginia Power	Transmission Owner
Leonid Lyakhovich	Public Service Electric & Gas Company	Transmission Owner
David Mabry	McNees Wallace & Nurick LLC	
Valerie martin	Federal Energy Regulatory Commission	
julie mason	Duke Energy Ohio, Inc.	Transmission Owner
Eric Matheson	Non-member	
Paul McGlynn	PJM Interconnection	None
Timothy McInerney	Commonwealth Edison Company	Transmission Owner
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
Mike Nester	Dominion Virginia Power (EDC)	Transmission Owner
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
Christopher Pulong	PJM Interconnection	None
Joseph Polka	Duquesne Light Company	
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	
Jason Proconiar	Buckeye Power, Inc.	Electric Distributor
Michael Purdie	Dominion Virginia Power	Transmission Owner
Farrokh Rahimi	Open Access Technology International, Inc.	None
John Rainey	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Wanda Reder	PPL	
Jim REILLY	Reilly Associates	
Tomas Rodriguez	Organization of PJM States, Inc.	
John Rohrbach	Wabash Valley Power Association, Inc.	Electric Distributor
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
Jonathan Sasser	Customized Energy Solutions, Ltd.	None
David Scarpignato	Calpine Energy Services, L.P.	Generation Owner
Kenneth Schisler	Enerwise Global Technologies, LLC	Other Supplier
Bahaa Seireg	Rockland Electric Company	Transmission Owner
Scott Sells	East Kentucky Power Cooperative, Inc.	Transmission Owner
Evan Shearer	Duke Energy Business Services LLC	Transmission Owner
Mark Smith	AEP Energy Partners, Inc. (AEP Retail)	Transmission Owner
James Sorrels	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Richard Sparling	PPL Electric Utilities Corp. dba PPL Utilities (LSE)	Transmission Owner

Trevor Sprague	Jersey Green Energy LLC	Other Supplier
Rebecca Stadelmeyer	PJM Interconnection	None
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)	
Kevin Thundiyil	Exelon Generation Co., LLC (NEV_XLON)	Generation Owner
James Tobia	FirstEnergy Services	
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
Matthew Wharton	Guidehouse Inc	
Jeffrey Whitehead	GT Power Group	
Amy Willey	Delaware Public Service Commission	
Megan Wisersky	Madison Gas & Electric Co.	Other Supplier
Damon Xenopoulos	Other	
Andrea Yeaton	PJM Interconnection	None
Vivian Younes	PPL Electric Utilities Corp. dba PPL Utilities (LSE)	Transmission Owner
Joel Yu	Enchanted Rock	

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