



Draft Meeting Minutes

Intermittent Resource Subcommittee
PJM Conference and Training Center
June 19, 2019
1:00 p.m. – 3:00 p.m. EPT

Administration

Mr. Ken Schuyler opened the meeting and reviewed the Agenda.

Mr. Joseph Carl reviewed the Anti-Trust and Code of Conduct and performed the roll call.

The meeting minutes from the March 13, 2019 meeting were approved.

Education

Mr. Joe Mulhern provided information on improving Load Forecasting with the Behind-the-Meter Solar Forecast. Mr. Mulhern covered the importance of short term load forecasting, the tools involved and how various types of solar resources impact the PJM load forecast in terms of grid connected solar and behind the meter. Also provided was information as to how the various load forecasts account for solar resources and introduced the concept of reconstituted load in the load forecast.

Mr. Joe Mulhern provided an update on the Reaching Out to Behind the Meter Resources and PJM's efforts to increase visibility of non-wholesale Distributed Energy Resources. Efforts will continue through 2019 to work with the transmission owners to identify resources and gain access to information as needed to populate a directory of these resources.

Mr. Andrew Levitt will provide an update on the IEEE Interconnection Standards. A DER Ride-Through Task Force has been established by PJM to harmonize ride-through requirements between transmission and distribution systems. Currently an analysis is under way to understand the impact of different trip settings and ride-through modes to determine what may be appropriate. A draft guidance document is expected in September.

Mr. Scott Baker ~~will~~ provide an update from the Distributed Energy Resources Subcommittee. Currently two issues under discussion, Wholesale DER Interconnection and Utility Microgrids. Regarding Wholesale DER Interconnections the main focus is reducing the cost and duration associated with small non-FERC jurisdictional projects that enter the PJM New Services Queue. A draft solutions matrix is currently being discussed. Similarly with microgrids, energy settlements when islanded, ancillary services, telemetry, capacity performance and islanded operations are being discussed in a solutions matrix format.

Ms. Laura Walter ~~will~~ provide an update on Energy Storage as PJM responds to FERC Order 841 on the final rule of Electric Storage Participation in Markets. Storage is expected to be modeled as one



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continuous resource, with 3 modes of operation: continuous, charge, and discharge. Resource owners will manage the state of charge, mode of operation, offers and parameters.

Future Agenda Items

None at this time

Future Meeting Dates

June 19, 2019	1:00 p.m.	WebEx
September 18, 2019	1:00 p.m.	WebEx
December 9, 2019	1:00 p.m.	WebEx

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In-Person Attendees:

Schuyler	Ken	PJM Interconnection, LLC	Not Applicable
Carl	Joseph	PJM Interconnection, LLC	Not Applicable
Glatz	Mulhern	Suzanne	Joseph
Roche	Garrido	Walter	Patricio
			Laura
			PJM Interconnection, LLC
			Not Applicable
Hutchinson	Levitt	Chad	Andrew
			PJM Interconnection, LLC
			Not Applicable

In Attendance via WebEx / Teleconference:

Ayres	Rachael	Exelon Generation Co. LLC	Generation Owner
Baker	Scott	PJM Interconnection, LLC	Not Applicable
Borgatti	Mike	Gabel and Associates	Not Applicable
Brodbeck	John	EDP Renewables North America Inc.	Other Supplier
Christopher	Mahilla	Public Utilities Commission of Ohio	Not Applicable
Denby	Brett	Novec	Not Applicable
Durinsky	Mike	First Energy Solutions Corp.	Transmission Owner
Davis	James	Dominion Energy	Generation Owner
Filomena	Guy	Customized Energy Solutions, Ltd	Not Applicable
Foladare	Ken	Tangibl Inc.	Not Applicable
George	Brian	Federal Energy Regulatory Commission	Not Applicable
Hohenshilt	Jennifer	Talen Energy Marketing LLC	Generation Owner
Hyzinski	Tom	GT Power Group	Not Applicable
Kilgallen	Kevin	Avangrid Renewables LLC	Generation Owner
Marzewski	Skyler	Monitoring Analytics	Not Applicable
Peoples	John	Duquesne Light Company	Transmission Owner
Rainey	John	Novec	Not Applicable
Rutigliano	Tom	NRDC	Not Applicable
Wilson	Bram	EPW Corporation	Not Applicable
Karrasch	Joe	Ohio Power Co.	Transmission Owner



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Kopinski	John	ITC Interconnection, LLC	Transmission Owner
Feladarc	Ken	Tangibl Inc.	Not Applicable
Demian	Christin	Duquesne Light Company	Transmission Owner
Johnson	Carl	Customized Energy Solutions, Ltd	Not Applicable
Ondayko	Brock	Appalachian Power Company	Transmission Owner
Dixon	Chad	Customized Energy Solutions, Ltd	Not Applicable
Heatson	Tom	Riverside Generating, LLC	Other Supplier
D'Alessandris	Lou	First Energy Solutions Corp.	Transmission Owner
Sweeney	Rory	GT Power Group	Not Applicable
Whitehead	Jeff	GT Power Group	Not Applicable
Hastings	David	Market Interconnection, LLC	Not Applicable
Hsia	Eric	PJM Interconnection, LLC	Not Applicable
Horning	Lynn	Customized Energy Solutions, Ltd	Not Applicable
Wisersky	Megan	MGE	Not Applicable
Midgley	Sharon	Exelon Business Services Company, LLC	Transmission Owner
Sasser	Jonathan	Customized Energy Solutions, Ltd	Not Applicable
Natrin	Michael	Delmarva Power and Light Company	Electric Distributor
Norton	Chris	American Municipal Power, Inc	Electric Distributor
Ejebe	Gabriel	OATI	Not Applicable

Author: Joseph M. Carl