



Draft Meeting Minutes

Intermittent Resource Subcommittee
PJM Conference and Training Center
December 9, 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 June 19, 2019 meeting were approved.

Agenda Items

Mr. Joe Mulhern provided an update on Renewable Forecasts. An overview of renewable resource growth over the last ten years in PJM was provided as well as a distinction between Grid-Connected and Behind-the-Meter generation which provided a foundation for how these resources are utilized in PJM's load forecasts. Statistics were also provided on Wind Power Curtailments in PJM in 2014 through 2018.

Ms. Onyinye Caven presented a status report on the PJM Interconnection Queues. Highlighted were types of generation connecting to the PJM grid, number of projects and megawatts associated with the various types of interconnections. Shown in detail was the amount of megawatts in the various phases of the interconnection process and the completion rates by generation fuel type with an overall trend noted in a move from natural gas fired generation toward renewables.

Mr. Andrew Levitt ~~will~~ provided an update on Micro-Grids as they pertain to wind and solar resources. Micro-grids are being defined in the PJM DER Subcommittee and utilize only distribution lines to provide energy. At this time no practical plans for solar or wind micro-grid have been submitted to PJM. A micro-grid typically would not contain strictly solar or wind generation but could utilize these resources as an overlay with other types of generation.

Ms. Laura Walter provided an update on the Energy Storage Participation Model and FERC Order 841. Reviewed were the requirements of FERC Order 841 and the current guidelines for energy storage resources to participate in the PJM marketplace. Stakeholders may follow these initiatives in PJM's Issue Tracking as this topic evolves.



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Future Agenda Items

None at this time

Future Meeting Dates

March 2, 2020	1:00 p.m.	WebEx
June 24, 2020	1:00 p.m.	WebEx
September 23, 2020	1:00 p.m.	WebEx
December 21, 2020	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
Caven	Onyinye	PJM Interconnection, LLC	Not Applicable
Foladare	Ken	Tangibl Inc.	Not Applicable
Mulhern	Joseph	PJM Interconnection, LLC	Not Applicable
Walter	Laura	PJM Interconnection, LLC	Not Applicable

In Attendance via WebEx / Teleconference:

Carmean	Greg	Organization of PJM States	Not Applicable
D'Alessandris	Lou	First Energy Solutions Corp.	Transmission Owner
Durinsky	Mike	First Energy Solutions Corp.	Transmission Owner
Davis	James	Dominion Energy	Generation Owner
Dolan	Jim	PJM Interconnection, LLC	Not Applicable
Domian	Christin	Duquesne Light Company	Transmission Owner
Filomena	Guy	Customized Energy Solutions, Ltd	Not Applicable
Gahimer	Mike	Indiana Office of Utility Consumer Council	Ex Officio Member
Gilani	Rehan	Coned Clean Energy Businesses	Not Applicable
Guntle	Vince	American PowerNet Management, L.R	End-Use Customer
Hyzinski	Tom	GT Power Group	Not Applicable



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Kazerooni	Hamid	Invenergy, LLC	Generation Owner
Leimann	John	Dominion Energy	Generation Owner
Levitt	Andrew	PJM Interconnection, LLC	Not Applicable
Mariam	Yohannes	Office of the People's Counsel for the District of Columbia	Ex Officio Member
Ondayko	Brock	Appalachian Power Company	Transmission Owner
Peoples	John	Duquesne Light Company	Transmission Owner
Roehl	Rex	Beacon Power	Not Applicable
Scheidecker	Paul	PJM Interconnection, LLC	Not Applicable
Toomey	Megan	Talen Energy Marketing, LLC	Generation Owner
Vitiello	Jacki	Dominion Energy	Generation Owner

Author: Joseph M. Carl