

Intermittent Resource Subcommittee
PJM Conference and Training Center
September 19, 2016
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 6, 2016 meeting were approved.

Education

Mr. Joe Mulhern provided an update on the progress for Solar Power Forecasts in PJM. A vendor has been selected. PJM is currently setting up the technology to access the forecast from a vendor on a secure site and expects to receive forecast data by the end of Q3. Upcoming steps are to provide Members access to the forecast via Data Viewer, improving forecast accuracy and configuring links to receive real-time meteorological data.

Mr. Scott Baker provided an update on the Seasonal Capacity Resources Senior Task Force. The SCRSTF has met 12 times since April 2016 and has five proposals available for voting. Proposals are outlined in a Solutions Matrix on the SCRSTF page of www.pjm.com. There will be a first read of the proposals that receive a majority of support at the MRC meeting on September 29th, 2016.

Mr. Ron Deloach highlighted the work being performed with the Behind the Meter Generation Modeling process in order to formalize the rules located in Manual 14D. For Behind the Meter Generation that is 10 MW or greater, telemetry and revenue metering may be required if the unit has been identified as needing to be modeled for operational security purposes. Manual 3A has additional rules and an Appendix D has been added to identify behind the meter model responsibilities and submission of the new Behind the Meter Generation Submission Form.

Mr. Ken Schuyler outlined recent Wind Curtailment Statistics. Wind Power curtailments have declined from 2014 and averaged 1.1% for the 12 month period ending August 2016 despite wind power generation increasing by 6.7%. Reasons attributed to decreasing curtailments are transmission system upgrades, wind farms following dispatch and improved interregional coordination.

Mr. Dave Anders provided an overview of the work underway to integrate Distributed Energy Resources into the PJM markets. Education, benchmarking and scenarios have been completed and process is underway to consider modifications to the interconnection queue rules for market participation of Distributed Energy Resources into the energy, ancillary services and capacity markets.

Future Agenda Items

None at this time.

Future Meeting Dates

December 7, 2016	1:00 p.m.	WebEx
March 6, 2017	1:00 p.m.	WebEx
June 5, 2017	1:00 p.m.	WebEx
September 18, 2017	1:00 p.m.	WebEx
December 11, 2017	1:00 p.m.	WebEx

Author: Joseph M. Carl

Antitrust:

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.

Code of Conduct:

As a mandatory condition of attendance at today's meeting, attendees agree to adhere to the PJM Code of Conduct as detailed in PJM Manual M-34 section 4.5, including, but not limited to, participants' responsibilities and rules regarding the dissemination of meeting discussion and materials.

In-Person Attendees:

Schuyler	Ken	PJM Interconnection, LLC	Not Applicable
Carl	Joseph	PJM Interconnection, LLC	Not Applicable
DeLoach	Ron	PJM Interconnection LLC	Not Applicable
Mulhern	Joe	PJM Interconnection, LLC	Not Applicable
Foladere	Kenneth	IMG Midstream LLC	Generation Owner
Hagaman	Derek	GT Power Group	Not Applicable

In Attendance via WebEx / Teleconference:

Anders	David	PJM Interconnection, LLC	Not Applicable
Baker	Scott	PJM Interconnection, LLC	Not Applicable
Benчек	Jim	First Energy Solutions Corp.	Transmission Owner
Bolan	Martin	First Energy Solutions Corp.	Transmission Owner
Brodbeck	John	EDP Renewables	Other Supplier
Chocarro	Iker	E.ON Climate & Renewables	Generation Owner
Davis	James	Dominion Energy	Generation Owner
DeLosa	Joseph	DE Public Service Commission	Not Applicable
Domian	Christin	Mitsubishi Electric Power	Not Applicable
Erbrick	Michael	Dhast Co. LLC	Other Supplier
Farber	John	DE Public Service Commission	Not Applicable
Feierabend	Rick ES	Dominion Virginia Power	Not Applicable
Filomena	Guy	Customized Energy Solutions, Ltd.	Not Applicable
Fitch	Neal	NRG Power Marketing LLC	Generation Owner
Hayes	Patrick	Union Electric Company d/b/a Ameren Missouri	Other Supplier
Heise	Randi	Dominion Virginia Power	Not Applicable
Hendrzak	Chantal	PJM Interconnection, LLC	Not Applicable
Hoatson	Tom	Riverside Generating, LLC	Other Supplier
Jennings	Kenneth	Duke Energy Business Services LLC	Not Applicable
Kauffman	Brian	NRG Curtailment	Other Supplier
Kelly	Stephen	Brookfield Energy Marketing LP	Other Supplier
Lacy	Catharine	Dominion Virginia Power	Not Applicable
Leimann	John	Dominion Virginia Power	Not Applicable
Midgley	Sharon	Exelon Business Services	Transmission Owner
Ondayko	Brock	Appalachain Power	Transmission Owner
Patten	Kevin	Appalachain Power	Transmission Owner
Peoples	John	Duquesne Light Company	Transmission Owner
Pratzon	David	GT Power Group	Not Applicable
Rugh	Chris	EverPower Commercial	Generation Owner
Sasser	Jonathan	Customized Energy Solutions, Ltd	Not Applicable
Scoglietti	Barbara	Tangent Energy Solutions Inc.	Other Supplier
Shanker	Roy	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Shields	Tom	Iberdrola Renewables	Generation Owner
Suh	Jung	Noble Americas Energy	Other Supplier
Tacka	Natalie	PJM Interconnection, LLC	Not Applicable
Thomson	Heather	Mid-Atlantic Renewable Energy	Not Applicable
Yu	Joel	Rockland Electric Company	Transmission Owner