

Intermittent Resource Subcommittee
PJM Conference and Training Center
June 6, 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 March 7, 2016 meeting were approved.

Education

Mr. Tom Falin reviewed the historical performance of Base Capacity Resources (Wind and Solar). The performance of wind and solar resources were examined over two sets of hours: 1) Suggested Intermittent Performance Hours under Capacity Performance and 2) All Hours in which load exceeded the 50/50 weather normalized seasonal peak.

Mr. Paul Scheidecker reviewed the recent results of the RPM 2019/2020 Base Residual Auction. A total of 167,305.9 MW were cleared which included 26,998.6 MW of Base Capacity and 140,307.3 MW of Capacity Performance.

Mr. Eric Hsia discussed PJM's response to FERC's Notice of Inquiry regarding Primary Frequency Response. FERC is seeking comments on amendments to the Large and Small Generation Interconnection Agreements for new and existing resources to have frequency response capabilities as a precondition to interconnection. FERC inquiry focused on frequency response performance, the need to compensate for primary frequency response, and the current nature of frequency response in market optimization processes.

Mr. Ken Schuyler reviewed PJM Wind Curtailment Statistics.

Mr. Scott Baker provided an update from the Seasonal Capacity Resources Senior Task Force. The SCRSTF was created to address concerns that certain resource types with different season availabilities such as demand response, energy efficiency and renewables may be unable to meaningfully participate in PJM's Reliability Pricing Model Capacity Market.

Mr. Dave Anders provided an update on integrating Distributed Energy Resources in the PJM Markets. Initial meeting was held and group is still in the education phase. Upcoming work includes exploring potential solutions between state and federal laws and PJM rules.

Future Agenda Items

Update on the RFP for PJM's Solar Power Forecasts



Draft Meeting Minutes

Future Meeting Dates

September 19, 2016	1:00 p.m.	PJM Conference & Training Center/ WebEx
December 7, 2016	1:00 p.m.	PJM Conference & Training Center/ 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
Falin	Tom	PJM Interconnection, LLC	Not Applicable
Scheidecker	Paul	PJM Interconnection, LLC	Not Applicable
Baker	Scott	PJM Interconnection, LLC	Not Applicable
Hendrzak	Chantal-Aimee	PJM Interconnection, LLC	Not Applicable
Hsia	Eric	PJM Interconnection, LLC	Not Applicable
Benchek	Jim	FirstEnergy Solutions Corp.	Transmission Owner
Hagaman	Derek	GT Power Group	Not Applicable
Fitch	Neal	NRG Power Marketing, LLC	Generation Owner
Kauffman	Brian	NRG Curtailment	Other Supplier
Kilgallen	Kevin	Emerald Energy	Not Applicable
Thomson	Heather	Mid-Atlantic Renewable Energy	Not Applicable

In Attendance via WebEx / Teleconference:

Anders	David	PJM Interconnection, LLC	Not Applicable
Brodbeck	John	EDP Renewables	Other Supplier
Bolan	Martin	FirstEnergy Solutions Corp.	Transmission Owner
Brown	Rich	PJM Interconnection, LLC	Not Applicable
Davis	Connie	City of Cleveland Public Power	Electric Distributor
Filomena	Guy	Customized Energy Solutions, Ltd	Not Applicable
Horstmann	John	Dayton Power & Light	Transmission Owner
Jacobs	Mike	Xtreme Power	Not Applicable
Lacy	Catherine	Dominion Virginia Power	Not Applicable
Leimann	John	Dominion Virginia Power	Not Applicable
Ma	Alex	Invenergy, LLC	Generation Owner
Peoples	John	Duquesne Light Company	Transmission Owner
Rajan	Abhijit	Dominion Resources	Not Applicable
Sasser	Jonathan	Customized Energy Solutions, Ltd	Not Applicable
Scarpignato	David	Calpine Energy Services L.P.	Generation Owner
Scoglietti	Barbara	Tangent Energy Solutions Inc.	Other Supplier
Shields	Tom	Iberdrola Renewables	Generation Owner
Bell	Jerry	PJM Interconnection, LLC	Not Applicable
Hastings	David		Not Applicable
Keefer	Brian	Dominion Virginia Power	Not Applicable
Borgatti	Mike	Gable Associates	Not Applicable
Kraemer	Neil	XO Energy	Other Supplier
Domian	Christin	Duquesne Light Company	Transmission Owner
Roberts	Karl	Duke Energy	Not Applicable
Hoatson	Tom	LS Power	Not Applicable
Ondayko	Brock	AEP	Not Applicable
Karrasch	John	AEP	Not Applicable
Foladare	Kenneth	Tangibl	Not Applicable
Fecho	Thomas	AEP	Not Applicable
Palermo	Jeff	PJP Consulting	Not Applicable
Wisersky	Megan	MGE	Not Applicable
Sheehan	Kelli	XO Energy	Other Supplier
Garnett	Bryan	Duke Energy	Not Applicable
Baidwan	S	Continuum Associates	Not Applicable
O'Neill	Jack	PJM Interconnection, LLC	Not Applicable
Johnson	Carl	Customized Energy Solutions, Ltd	Not Applicable
Hayes	Pat	Ameren	Not Applicable
Greening	Michele	Talen Energy	Generation Owner



Draft Meeting Minutes

Pratzon
Haq
Yu

David
Ainul
Joel

GT Power Group
Cisco
Coned

Not Applicable
Not Applicable
Not Applicable