DRAFT
Meeting Minutes
PJM Interconnection
Energy Storage Resources in RPM Discussion
PJM Conference and Training Center
Valley Forge, PA
July 2, 2014
9:00 AM - 12:00 PM

Members Present:

Tom Rutigliano Achieving Equilibrium LLC
David Canter AEP
Mark Smith AEP Energy Partners, Inc. (AEP Retail)
Praveen Kathpal AES Energy Storage, LLC
Takis Laios American Electric Power
Chris Norton American Municipal Power, Inc.
Gary Fuerst American Transmission Systems, Inc.
Kevin Patten Appalachian Power Company
Brock Ondayko Appalachian Power Company
John Fernandes Baltimore Gas and Electric
Joseph Kerecman Calpine Energy Services, L.P.
Stewart Harris Carmen Group
Rehan Gilani ConEdison Energy, Inc.
Guy Filomena Customized Energy Solutions, Ltd.
Bill Dugan Customized Energy Solutions, Ltd.
Carl Johnson Customized Energy Solutions, Ltd.
Judith Judson McQueeney Customized Energy Solutions, Ltd.
John Horstmann Dayton Power & Light Company
John Farber DE Public Service Commission
Steve Steffel Delmarva Power & Light Company
Andrea Maucher Division of the Public Advocate of the State of Delaware
Catharine Lacy Dominion Virginia Power
Nancy Connelly Duke Energy
Jeff Gates Duke Energy
Kenneth Jennings Duke Energy Business Services LLC
Spencer Hanes Duke Energy Business Services LLC
Jason Cox Dynegy Power Marketing, Inc.
Katherine Hamilton Energy Storage Association
Melanie Sanders Exelon Business Services Company, LLC
1. **ADMINISTRATION**

Mr. Herman called the meeting to order and then asked Mr. Quevada to call the roll. Mr. Herman then asked for additional items for the agenda, and there were no suggestions.

2. **DISCUSS TARGETED WORK PLAN**

Mr. Herman reviewed a targeted work plan for the discussion. The plan has moved to bi-monthly meetings until August 2014, leaving time for any recommended proposal to be implemented in advance of the May 2015 Base Residual Auction.

3. **EDUCATION/ACTION ITEMS**

PJM provided education and led discussions on topics as listed in the meeting’s agenda. Education will be on-going as requested by the members for future meetings.

4. **ESA PRESENTATION (10:20-10:50)**

Energy Storage Association led a presentation on “Valuing Storage in the PJM Capacity Market (RPM)”

5. **OPTIONS MATRIX**

PJM continued gathering design components from the members, and will continue to solicit further design components in future meetings. PJM will make available the updated design component matrix on the meeting’s website. PJM will also be polling the members to solicit their input in future meetings.

6. **ACTION ITEMS**

Through discussion, several action items (and questions) were identified for PJM to discuss in future meetings:

- PJM will lead a discussion on the question: How are advanced energy storage resources treated in NYISO, CAISO and other entities, specifically with respect to time capability and other design components in our Matrix?
- PJM will lead a discussion on considering the topic of allowing energy storage resources to collocate with intermittent resources and provide capacity as one unit under this problem statement.
- Should the following discussion be taken up at the OC: “If a unit schedules 5 starts in a given week and uses all of those up by Wednesday, are they forced to take an outage?”
- Should Run of River Hydro resources have their ICAP limited? – Is this item within the scope of this Problem Statement?
- PJM Should validate the analysis performed by ESA regarding the 20 Coincident peaks, the 3.3 MWh, and the effective load carrying capability
- The Representation of Status Quo in the Matrix may need adjusting: Maybe two Status quo columns, 1 for Energy Storage Resources in RPM currently (IE N/A) and another for how batteries are treated now and/or how other units in RPM are treated
- Where is the topic of Pumped Storage maximum power output over 1 hour referred to in PJM manuals
- Can PJM provide education on Metering/Telemetry requirements?
- What is the status quo of the Make Resource Available design component/How will the interconnection process (and determination of rating) work for Energy Storage Resources?

7. **FUTURE MEETINGS**

- July 23, 2014 9:00am – 1:00pm Webinar/CTC, Norristown, PA
- August 15, 2015 9:00am – 1:00pm Webinar/CTC, Norristown, PA
- August 29, 2015 9:00am – 1:00pm Webinar/CTC, Norristown, PA