DRAFT
Meeting Minutes
PJM Interconnection
Energy Storage Resources in RPM Discussion
PJM Conference and Training Center
Valley Forge, PA
April 30th, 2014
10:00 AM - 12:00 PM

Members Present:

Jeff Cramer 38 North Solutions
Eric Hsieh A123 Systems
Tom Rutigliano Achieving Equilibrium LLC
David Canter AEP
Pat Hayes Ameren
Takis Laios American Electric Power
Joseph Kerecman Calpine Energy Services, L.P.
Bill Dugan Customized Energy Solutions, Ltd.
Carl Johnson Customized Energy Solutions, Ltd.
Guy Filomena Customized Energy Solutions, Ltd.
Judith Judson McQueeney Customized Energy Solutions, Ltd.
John Horstmann Dayton Power & Light Company
John Farber DE Public Service Commission
Pamela Knotts DE Public Service Commission
Mingwei Chen Dominion Energy Marketing, Inc.
Catharine Lacy Dominion Virginia Power
George Owens Downes Associates, Inc.
Kenneth Jennings Duke Energy Business Services LLC
Steve Steinkuhl Duke Energy Business Services LLC
Chuck Dugan East Kentucky Power Cooperative, Inc.
Alan Cordova EDP RENOVÁVEIS, S.A.
Mike Grimes EDP RENOVÁVEIS, S.A.
Bruce Campbell EnergyConnect, Inc.
Rebecca Stadlemeyer Exelon Business Services Company
Eva Gardow FirstEnergy Corporation
Martin Bolan FirstEnergy Solutions Corporation
Michael Borgatti Gable and Associates
Neal A. Fitch GenOn Energy Management, LLC
David Pratzon GT Power Group
John Webster  
Icetec.com, Inc.

Alex Ma  
Invenergy

Fred Rohs  
Marina Energy, LLC

Ralph De Geeter  
Maryland Public Service Commission

Kevin Dean  
McNees Wallace & Nurick LLC

Mariann Wilczek  
New York ISO

George Kogut  
New York Power Authority

David Applebaum  
NextEra Energy Power Marketing, LLC

Brian Hamilton  
North American Electric Reliability Corporation

Nicole Sitarman  
Office of the Peoples Counsel for the District of Columbia

Fred Heizer  
Ohio PUC

Melanie Sanders  
Other

Melanie Santiago-Mosier  
Other

Michele Greening  
PPL EnergyPlus, L.L.C.

John Citrolo  
PSEG

Frank Czigler  
Public Service Electric & Gas Company

John Fernandes  
RES Americas

Tom Hoatson  
Riverside Generating, LLC

Barbara Scoglietti  
Tangent Energy Solutions, Inc.

Mike Jacobs  
Union of Concerned Scientists

Louis Slade  
Virginia Electric & Power Company

**PJM Staff Present:**

Michael Herman, Facilitator  
PJM Interconnection, LLC

Aaron Berner  
PJM Interconnection, LLC

Adam Keech  
PJM Interconnection, LLC

Dave Pomian  
PJM Interconnection, LLC

David Anders  
PJM Interconnection, LLC

Ed Hoey  
PJM Interconnection, LLC

Francis Barrett  
PJM Interconnection, LLC

Jerry Bell  
PJM Interconnection, LLC

Jim Kirby  
PJM Interconnection, LLC

Jonathan Sasser  
PJM Interconnection, LLC

Joseph Ciabattoni  
PJM Interconnection, LLC

Mike Bryson  
PJM Interconnection, LLC

Mike Ward  
PJM Interconnection, LLC

Murty Bhavaraju  
PJM Interconnection, LLC

Scott Baker  
PJM Interconnection, LLC

Tom Falin  
PJM Interconnection, LLC

Jason Quevada, Secretary  
PJM Interconnection, 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 roughly calls for monthly meetings until August 2014, leaving time for any recommended proposal to be implemented in advance of the May 2015 Base Residual Auction.

3. **DESIGN COMPONENTS**

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

4. **ACTION ITEMS**

   Through discussion, several action items (and questions) were identified for PJM to discuss in future meetings:
   
   - What are PJM’s thoughts/proposals on Emergency condition obligations?
   - Education
     - What are the obligations of a Capacity Resource?
     - What is the current process for determine UCAP?
     - Describe how opportunity cost is modeled in energy markets.

5. **FUTURE MEETINGS**

   TBD  
   TBD  
   Webinar/CTC, Norristown, PA

---

Author: Jason Quevada, PJM
Draft: 5/6/2014
Final:  
Docs: 793415 v1