



**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 Stadelmeyer	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 Sitaraman	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  
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