

Seasonal Capacity Resources Senior Task Force (SCRSTF)
PJM Conference and Training Center
July 11, 2016
9:30 a.m. – 4:00 p.m. EPT
Meeting #8

Administration

1. Mr. Scott Baker opened the meeting and reviewed the agenda.
2. Mr. Joe Callis reviewed the meeting guidelines, performed roll call and reviewed the draft minutes of the June 21 meeting. Minutes were approved and posted as final.

Solution Options for Demand Resources

1. Mr. Murty Bhavaraju, PJM, discussed a proposed solution option for non-summer Demand Response measurement and verification. Stakeholders requested additional time at the next meeting to continue discussing the solution options for demand resources.

Solution Options for Aggregate Resources

1. Mr. Adam Keech, PJM, provided a brief update on comments by Andy Ott on the seasonal resources participation in RPM at the MRC.
2. Mr. Keech also discussed draft resource aggregation business rules and solution options. Stakeholders discussed solution options for design components focused on Aggregated Resources.
3. Mr. Aaron Berner, PJM discussed winter deliverability analysis associated with wind resources and answered questions from the stakeholders regarding CIR calculations for seasonal resources.

Solution Options for Seasonal Products

1. Mr. Tom Rutigliano, WeatherBug, presented solutions options for an alternative Capacity Performance product.
2. Mr. Jim Wilson, on behalf of the NJ Division of Rate Counsel, PA Office of Consumer Advocate, MD Office of People's Counsel, DC Office of People's Counsel, DE Division of the Public Advocate, and the Sustainable FERC Project, presented a proposal to develop a seasonal capacity market.

Follow-up Action Items from the June 21st meeting (3:30 - 3:45)

1. Mr. Tom Falin, PJM, provided a brief response to the Base Capacity Analysis presented at the June 6 SCRSTF meeting.

Action Items and Future Agenda Items (3:45 – 4:00)

1. PJM will post an updated matrix prior to the next meeting which will include all the proposed

solutions options presented in the meetings thus far in matrix form.

Future Meeting Dates

August 1, 2016	9:30 a.m. – 4:00 p.m.	PJM Conference & Training Center/ WebEx
August 12, 2016	9:30 a.m. – 4:00 p.m.	PJM Conference & Training Center/ WebEx
August 22, 2016	1:00 p.m. – 4:30 p.m.	PJM Conference & Training Center/ WebEx
September 8, 2016	9:30 a.m. – 4:00 p.m.	PJM Conference & Training Center/ WebEx
September 23, 2016	9:30 a.m. – 4:00 p.m.	PJM Conference & Training Center/ WebEx
October 14, 2016	9:30 a.m. – 4:00 p.m.	PJM Conference & Training Center/ WebEx
October 26, 2016	9:30 a.m. – 4:00 p.m.	PJM Conference & Training Center/ WebEx
November 16, 2016	9:30 a.m. – 4:00 p.m.	PJM Conference & Training Center/ WebEx
November 29, 2016	9:30 a.m. – 4:00 p.m.	PJM Conference & Training Center/ WebEx
December 19, 2016	9:30 a.m. – 4:00 p.m.	PJM Conference & Training Center/ WebEx

Author: B. Keshavamurthy

In Attendance (In Person)

Last Name	First Name	Company	Sector
Baker	Scott	PJM Interconnection, LLC	Not Applicable
Barker	Jason	Exelon Business Services Company, LLC	Transmission Owner
Bastian	Jeff	PJM Interconnection, LLC	Not Applicable
Berner	Aaron	PJM Interconnection, LLC	Not Applicable
Bhavaraju	Murty	PJM Interconnection, LLC	Not Applicable
Borgatti	Michael	Gabel and Associates	Not Applicable
Bruce	Susan	McNees Wallace & Nurick LLC	Not Applicable
Bruno	Patrick	PJM Interconnection, LLC	Not Applicable
Callis	Joe	PJM Interconnection, LLC	Not Applicable
Campbell	Bruce	EnergyConnect, Inc.	Other Supplier
Carmean	Gregory	OPSI	Not Applicable
Carroll	Rebecca	PJM Interconnection, LLC	Not Applicable
Chen	Jennifer	Natural Resources Defense Council	Not Applicable
Doremus	Steven	EnerNOC, Inc.	Other Supplier
Fabiano	Janell	PJM Interconnection, LLC	Not Applicable
Falin	Tom	PJM Interconnection, LLC	Not Applicable
Fitch	Neal	NRG Power Marketing LLC	Generation Owner
Greiner	Gary	PSEG Energy Resources and Trade LLC	Other Supplier
Griffiths	Dan	Consumer Advocates of PJM States	Not Applicable
Guerry	Katie	EnerNOC, Inc.	Other Supplier
Hendrzak	Chantal	PJM Interconnection, LLC	Not Applicable
Jacobs	Mike	Xtreme Power	Not Applicable
Johnson	Carl	Customized Energy Solutions, Ltd.	Not Applicable
Kauffman	Brian	NRG Curtailment Solutions	Other Supplier

Keech	Adam	PJM Interconnection, LLC	Not Applicable
Kerecman	Joe	Calpine Energy Services, L.P.	Generation Owner
Keshavamurthy	Bhavana	PJM Interconnection, LLC	Not Applicable
Kier	Laura	EnergyHub	Not Applicable
Kilgallen	Kevin	Iberdrola	Generation Owner
Levitt	Andrew	PJM Interconnection, LLC	Not Applicable
Lieberman	Steven	Old Dominion Electric Cooperative	Electric Distributor
Mabry	David	McNees Wallace & Nurick LLC	Not Applicable
O'Connell	Robert	Main Line Electricity Market Consultants	Not Applicable
Pratzon	David	GT Power Group	Not Applicable
Rocha Garrido	Patricio	PJM Interconnection, LLC	Not Applicable
Rutigliano	Tom	Earth Networks	Other Supplier
Schreim	Morris	Maryland Public Service Commission	Not Applicable
Sechrist	Erin	PJM Interconnection, LLC	Not Applicable
Thomson	Heather	Mid-Atlantic Renewable Energy	Not Applicable
Tribulski	Jennifer	PJM Interconnection, LLC	Not Applicable
Whitehead	Jeffrey	Direct Energy Business Marketing, LLC	Other Supplier
Wilson	James	Wilson Energy Economics	Not Applicable

In Attendance (WebEx / Teleconference)

Last Name	First Name	Company	Sector
Ainspan	Malcolm	Energy Curtailment Specialists, Inc.	Other Supplier
Barbeau	Andrew	The Accelerate Group	Not Applicable
Benchek	Jim	FirstEnergy Solutions Corp.	Transmission Owner
Bloom	David	Baltimore Gas and Electric Company	Transmission Owner
Boyle	Glen	PJM Interconnection, LLC	Not Applicable
Brown	Richard	PJM Interconnection, LLC	Not Applicable
Brodbeck	John	EDP Renewables North America, LLC	Other Supplier
Carmean	Gregory	OPSI	Not Applicable
Chocarro	Iker	E.ON Climate & Renewables North America, LLC	Generation Owner
Cocco	Michael	ODEC	Electric Distributor
Collins	Leonard	State of Delaware	Not Applicable
Croop	Danielle	PJM Interconnection, LLC	Not Applicable
Cummings	Bridgid	PJM Interconnection, LLC	Not Applicable
D'Alessandris	Lou	FirstEnergy Solutions Corp.	Transmission Owner
davis	connie	City of Cleveland, DPU, Div of Cleveland Public Pwr	Electric Distributor
DeLosa	Joseph	DE Public Service Commission	Not Applicable
DeNavas	Joseph	Potomac Electric Power Company	Electric Distributor
Domian	Christin	Mitsubishi Electric Power Products Inc.	Not Applicable

Dugan	Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Endress	Eric	PJM Interconnection, LLC	Not Applicable
Erbrick	Michael	Dhast Co	Not Applicable
Esposito	Pati	TransCanada Power Marketing Ltd.	Other Supplier
Evrard	David	Pennsylvania Office of the Consumer Advocate	Not Applicable
Farber	John	DE Public Service Commission	Not Applicable
Feierabend	Rick	Dominion Virginia Power	Not Applicable
Feliks	Kent	AEP	Transmission Owner
Filomena	Guy	Customized Energy Solutions, Ltd.	Not Applicable
Foladare	Kenneth	IMG Midstream LLC	Generation Owner
Garnett	Bryan	Duke Energy Ohio, Inc.	Transmission Owner
Gebolys	Debbie	Public Utilities Commission of Ohio (The)	Not Applicable
Gledhill	Andrew	PJM Interconnection, LLC	Not Applicable
Greening	Michele	Talen Energy Marketing, LLC	Generation Owner
Horstmann	John	Dayton Power & Light Company (The)	Transmission Owner
Horton	Dana	Appalachian Power Company	Transmission Owner
Hsia	Eric	PJM Interconnection, LLC	Not Applicable
Hyzinski	Tom	Talen Energy Marketing, LLC	Generation Owner
Jackson	Michaela	EDF Trading North America, LLC	Other Supplier
Jardot	Gina	Essential Power Rock Springs, LLC	Transmission Owner
Kaczanowski	Marek	Baltimore Gas and Electric Company	Transmission Owner
Keefer	Brian	Dominion Energy Marketing, Inc.	Generation Owner
Kelly	Stephen	Brookfield Energy Marketing LP	Other Supplier
Kolo	Elta	GTM	Not Applicable
Korad	Akshay	MISO	Not Applicable
Lacy	Catharine	Dominion Virginia Power	Not Applicable
Langbein	Pete	PJM Interconnection, LLC	Not Applicable
Lyser	Shelly	Rockland Electric Company	Transmission Owner
Marton	David	FirstEnergy Solutions Corp.	Transmission Owner
Marzewski	Skyler	Monitoring Analytics, LLC	Not Applicable
Matheson	Doug	EnerNOC, Inc.	Other Supplier
Matzen	Jeff	Dominion Retail, Inc.	Not Applicable
McCaffree	Matt	Comverge Inc.	Not Applicable
Midgley	Sharon	Exelon Business Services Company, LLC	Transmission Owner
Miller	John	Commonwealth Edison Company	Transmission Owner
Norton	Chris	American Municipal Power, Inc.	Electric Distributor
Ondayko	Brock	Appalachian Power Company	Transmission Owner
Ozkan	Deniz	Atlantic Grid Operations A, LLC	Other Supplier
Peters	James	ITC Holdings	Transmission Owner
Powers	Sean	Linde Energy Services, Inc.	End User Customer

Price	Ruth	Division of the Public Advocate of the State of Delaware	End User Customer
Quevada	Jason	PJM Interconnection, LLC	Not Applicable
Reynolds	John	PJM Interconnection, LLC	Not Applicable
Rugh	Chris	EverPower Commercial Services, LLC	Generation Owner
Sasser	Jonathan	Customized Energy Solutions, Ltd.	Not Applicable
Scarpignato	David	Calpine Energy Services, L.P.	Generation Owner
Schuyler	Ken	PJM Interconnection, LLC	Not Applicable
Schneider	Jon	FirstEnergy Corporation	Not Applicable
Scoglietti	Barbara	Tangent Energy Solutions, Inc.	Other Supplier
Seide	Richard	Apex Clean Energy	Not Applicable
Shanker	Roy	Hydro Quebec	Not Applicable
Singer	Chad	Fellon McCord	Not Applicable
Sitaraman	Nicole	Office of the Peoples Counsel for the District of Columbia	End User Customer
Tripoli	Matthew	IMG Midstream LLC	Generation Owner
Ward	Michael	PJM Interconnection, LLC	Not Applicable
Wilmoth	Emily	Dominion Virginia Power	Not Applicable
Wilson	James	Wilson Energy Economics	Not Applicable
Wisersky	Megan	MG&E	Other Supplier
Womack	Robert	IPKeys Power Partners, LLC	Other Supplier
Wynn	Laura	SMXB Law	Not Applicable
Yu	Joel	Rockland Electric Company	Transmission Owner