



June Planning Committee Teleconference / WebEx June 2, 2020 9:00 a.m. – 11:00 a.m. EPT

Administration (9:00-9:15)

- 1. Dave Souder, PJM, called the meeting to order and Molly Mooney, PJM, reviewed the Antitrust, Code of Conduct, media participation, and WebEx guidelines.
- 2. Molly Mooney reviewed the June 2, 2020 Planning Committee Agenda. An announcement was made regarding two upcoming training sessions for Pre Queue and Post ISA education sessions. No changes to the agenda were requested.
- 3. Ms. Molly Mooney reviewed the draft minutes posted for the May 12th, 2020 meeting and the Planning Committee approved the minutes.

Endorsements (9:15 – 10:15)

4. Manual 14A, E and G Changes

Onyinye Caven, PJM, presented changes to Manuals 14A, 14E and 14G identified as part of the periodic review. The committee endorsed the Manual changes with an acclamation vote of 0 objections and 0 abstentions.

5. 2020 RRS Assumptions

Jason Quevada, PJM, presented the 2020 RRS assumptions as developed in the Resource Adequacy Analysis Subcommittee. The committee endorsed the study assumptions with an acclamation vote of 0 objections and 0 abstentions.

6. PMU Placement in RTEP Planning Process

Shaun Murphy, PJM, reviewed the Problem Statement, Issue Charge and proposed solution to address the need for PMU Placement in the RTEP planning process. After stakeholder discussion, Dave Souder asked committee members to provide feedback on Manual language and any other concerns prior to the July Planning Committee meeting. The vote was postponed until the July meeting when the committee will be asked to approve the issue charge and endorse the proposed revisions to Manual 14B: PJM Region Transmission Planning Process as part of the Quick Fix process outlined in Section 8.6.1 of Manual 34.

First Reads ()

Informational Updates (10:15 – 11:00)

7. Load Impact and Forecast Update

Andrew Gledhill, PJM, presented the estimated Covid-19 impacts on recent loads and an updated forecast to be used in the DY 2021/22 2nd IA pending FERC approval of waiver filed by PJM.





8. FERC Compliance Filing Update

Ray Fernandez, PJM, discussed cost allocation issues associated with multiple orders from FERC that require resettlement.

9. FERC Order 845 Update

Pauline Foley, PJM, provided an update on the FERC's May 21, 2020 Order regarding PJM's proposed tariff revisions filed on February 21, 2020 in compliance with the requirements of Order Nos. 845 and 845-A and the Commission's December 19, 2019 Order.

10. Competitive Planner Update

Ilyana Dropkin, PJM, provided an update on the Competitive Planner application, a new web-based form or application that is developed for Transmission Owners and Developers to participate in the PJM competitive planning process.

11. Critical Infrastructure Stakeholder Update

Joseph Hay, PJM, discussed the work being done at the most recent Critical Infrastructure Stakeholder Oversight Special Planning Committee session.

Issue Tracking: Critical Infrastructure Stakeholder Oversight

Informational Posting

Model Build Activity Update

- The final 2019 series MMWG 2020 winter study case will be posted by Powertech on May 27, 2020.
- For the 2020 series MMWG powerflow cases, Transmission Owners are able to submit updates to project files via Model on Demand, provide load and device profiles for all 12 cases and Tie Line updates to PJM by May 29, 2020. PJM will submit the Trial 1 cases to Powertech by June 26, 2020.

Capacity Capability Senior Task Force Update

At the May 20 CCSTF, PJM solicited feedback on definitions for the design components introduced at the April 27 meeting and stakeholders offered additional design components. Energy Storage Association (ESA) provided solution options for the design components established at the April 27 meeting. PJM also presented a few solution options for stakeholder consideration. Stakeholders are asked to bring additional solution options to the June 4 meeting. The group will discuss proposed packages at the June 22 meeting, and it also aims to poll on an array of solution options in June. August 7 is the planned date to vote on packages in order to meet a FERC filing deadline of October 30. An updated Work Plan can be found on the CCSTF page on pim.com.

Storage As Transmission Asset

Meeting dates have been set for the Special PC sessions for Storage As Transmission Asset shown below.

<u>Issue Tracking: Storage As a Transmission Asset</u>

Proposed Amendments to Attachment M-3 of the PJM Tariff

The Notice of Transmission Owners Consultation with the Members Committee Regarding Proposed Amendments to Attachment M-3 of the PJM Tariff is available on behalf of the PJM Transmission Owners has





been posted with the May 12, 2020 meeting materials. Note that written comments on the Attachment M-3 Amendments may be submitted for consideration by email to: Comments for Transmission Owners@pim.com on or before June 8, 2020.

Future Meeting Dates

Friday, June 05, 2020 1:00 p.m. - 4:00 p.m. Friday, June 19, 2020 1:00 p.m. - 4:00 p.m. 1:00 p.m. – 4:00 p.m. Monday, July 06, 2020 Tuesday, July 07, 2020 9:00 a.m. - 12:00 p.m. 1:00 p.m. - 3:00 p.m. Friday, July 17, 2020 Tuesday, August 04, 2020 9:00 a.m. - 12:00 p.m. 1:00 p.m. – 4:00 p.m. Thursday, August 06, 2020 1:00 p.m. - 3:00 p.m. Friday, August 14, 2020 1:00 p.m. – 3:00 p.m. 1:00 p.m. – 4:00 p.m. 9:00 a.m. – 12:00 p.m. Monday, August 17, 2020 Monday, August 24, 2020 Tuesday, September 01, 2020 Tuesday, September 22, 2020 9:00 a.m. - 12:00 p.m. 1:00 p.m. – 3:00 p.m. 9:00 a.m. – 12:00 p.m. Tuesday, September 22, 2020 Friday, September 25, 2020 9:00 a.m. – 12:00 p.m. Tuesday, October 06, 2020 Thursday, October 22, 2020 1:00 p.m. - 4:00 p.m. 9:00 a.m. – 12:00 p.m. 9:00 a.m. – 12:00 p.m. Wednesday, November 04, 2020 Tuesday, December 01, 2020

Special PC: Critical Infrastructure Special PC: Storage As a Transmission Asset Planning Committee Special PC: Critical Infrastructure Planning Committee Special PC: Storage As a Transmission Asset Special PC: Critical Infrastructure Special PC: Pre Queue Education Session Special PC: Storage As a Transmission Asset Planning Committee Special PC: Critical Infrastructure Special PC: Post ISA Education Session Special PC: Storage As a Transmission Asset Planning Committee Special PC: Storage As a Transmission Asset Planning Committee Planning Committee

Special PC: Storage As a Transmission Asset

WebEx WebEx WebEx PJM Conference & Training Center/ WebEx WebEx PJM Conference & Training Center/ WebEx

Attendance List

David Souder (Chair) Molly Mooney (Secretary)

Muhsin Abdur-Rahman Robert Cundiff Tyler Berton Rvan Dolan Gerit Hull Steven Lieberman Gary Fuerst Brock Ondayko **David Canter** Takis Laios Kevin Kilgallen Hugh Scott Eric Yeh Tom Jens Diane Janicki Stephen Kelly Khan Adnan Bill Allen Alan Engelmann

Guy Filomena Lynn Horning Carl Johnson Jonathan Sasser John Horstmann Michael Russ **David Hastings**

Ruth Ann Price

Paul Mills

Ron Regner

Rehan Gilani

Haibin Sun

PJM Interconnection, LLC PJM Interconnection, LLC

AEP Energy Partners, Inc. American Electric Power American Municipal Power American Municipal Power, Inc. American Municipal Power, Inc. American Transmission Systems, Inc. Appalachain Power Company Appalachian Power Company Appalachian Power Company Avangrid Renewables LLC Baltimore Gas and Electric Company

Baltimore Gas and Electric Company Black Oak Energy, LLC

Boston Energy Trading and Marketing LLC Brookfield Energy Marketing LP

Burns McDonnell

Commonwealth Edison Company Commonwealth Edison Company Commonwealth Edison Company Commonwealth Edison Company ConEdison Energy, Inc. Constellation Energy Services, Inc.

Customized Energy Solutions, Ltd. Customized Energy Solutions, Ltd. Customized Energy Solutions, Ltd. Customized Energy Solutions, Ltd. Dayton Power & Light Company (The) Dayton Power & Light Company (The)

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Division of the Public Advocate of the State of Delaware

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Steve Abate

Tonja Wicks

Patrick Grau

Gian Alian

Joe Pilch

Draft Minutes



Jim Davis Dominion Energy Marketing, Inc. Mark Gill Dominion Energy Virginia Hadi Athari Dominion Virginia Power Sean Bodkin Dominion Virginia Power Kvle Hannah Dominion Virginia Power Dominion Virginia Power **Huiying Huang** Tania Jones Dominion Virginia Power Dominion Virginia Power Connie Lowe Dominion Virginia Power Bao Pham Yajun Zheng Dominion Virginia Power Dominion Virginia Power Rven Lawson William Jett Duke Energy Business Services LLC Steve Steinkuhl Duke Energy Business Services LLC Julie Mason Mandy Meadors

Duke Energy Business Services Li Duke Energy Ohio, Inc. Duke Energy Ohio, Inc. Duquesne Light Company Duquesne Light Company Duquesne Light Company Duquesne Light Company Dynegy Marketing and Trade, LLC

Iker Chocarro E.ON Climate & Renewables North America, Inc.

Darrin Adams East Kentucky Power Cooperative. Inc.

Darrin Adams

Chuck Dugan

John Brodbeck

Malcolm Ainspan

Thomas Leeming

East Kentucky Power Cooperative, Inc.

East Kentucky Power C

Jason Barker

Sharon Midgley

Pablo Ovando

Melanie Sanders

Robert Taylor

Amber Thomas

Kevin Charles

Exelon Business Services Company, LLC

Roozbeh Shegarfi Exelon Generation Co., LLC FirstEnergy Solutions Corp. Tom Bainbridge FirstEnergy Solutions Corp. Jim Benchek FirstEnergy Solutions Corp. Lou D'Alessandris FirstEnergy Solutions Corp. Laura DiNicola Larre Hozempa FirstEnergy Solutions Corp. Jeff Stuchell FirstEnergy Solutions Corp. Emma Nix Gabel and Associates Paul Kelly **GDS** Associates Tom Hyzinski GT Power Group Rory Sweeney GT Power Group Jeff Whitehead

 Jeff Whitehead
 GT Power Group

 Mike Gahimer
 IN Office of Utility Consumer Counselor

 Dave Johnston
 Indiana Utility Regulatory Commission

 Ramya Nagarajan
 LS Power Transmission, LLC

 Joshua York
 LS Power Transmission, LLC

 Megan Wisersky
 Madison Gas and Electric

 Kathleen Wehnes
 Maryland Public Service Commission

 David Mabry
 McNees Wallace & Nurick LLC

 Christin Domian
 Mitsubishi Electric Power Products Inc.

 John Dadourian
 Monitoring Analytics, LLC

David Brown New Jersey Board of Public Utilities

Daniel Davies New Project Media
George Kogut New York Power Authority

David Davis

Gabriel Hollis

RextEra Energy Power Marketing, LLC

NextEra Energy Transmission, LLC

Northern Indiana Public Service Company

John Rainey

Northern Virginia Electric Cooperative

Yohannes Mariam Office of the Peoples Counsel for the District of Columbia

Bill Squibb Ohio Valley Electric

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Generation Owner

Transmission Owner

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Other Supplier

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Not Applicable

Not Applicable

End User Customer

Transmission Owner

Transmission Owner





| Adrien Ford | Old Dominion Electric Cooperative |
|----------------------------|--|
| Bill Pezalla | Old Dominion Electric Cooperative |
| Gregory Carmean | OPSI |
| Tomas Rodriguez | OPSI |
| Imelda Foley | Other |
| Mike Donnelly | PECO Energy Company |
| Pulin Shah | PECO Energy Company |
| Jiyeon Kim | PEPCO Holdings, Inc. |
| Rajaz Amitava | PJM Interconnection, LLC |
| David Anders | PJM Interconnection, LLC |
| Aaron Berner | PJM Interconnection, LLC |
| Ashwini Bhat | PJM Interconnection, LLC |
| Onyinye Caven | PJM Interconnection, LLC |
| Ilyana Dropkin | PJM Interconnection, LLC |
| Subbarao Eedupuganti | PJM Interconnection, LLC |
| David Egan | PJM Interconnection, LLC |
| Janell Fabiano | PJM Interconnection, LLC |
| Tom Falin | PJM Interconnection, LLC |
| Zhenyu Fan | PJM Interconnection, LLC |
| Raymond Fernandez | PJM Interconnection, LLC |
| Pauline Foley | PJM Interconnection, LLC |
| Suzanne Glatz | PJM Interconnection, LLC |
| Andrew Gledhill | PJM Interconnection, LLC |
| Jim Glennon | PJM Interconnection, LLC |
| Michele Greening | PJM Interconnection, LLC |
| Joe Hay | PJM Interconnection, LLC |
| Suzanne Herel | PJM Interconnection, LLC |
| Michael Herman | PJM Interconnection, LLC |
| Matthew LaRocque | PJM Interconnection, LLC |
| Susan McGill | PJM Interconnection, LLC |
| Paul McGlynn | PJM Interconnection, LLC |
| Megan McLaverty | PJM Interconnection, LLC |
| Shaun Murphy | PJM Interconnection, LLC |
| Grace Niu | PJM Interconnection, LLC |
| Darlene Phillips | PJM Interconnection, LLC |
| Chris Pilong | PJM Interconnection, LLC |
| Wenzheng Qiu | PJM Interconnection, LLC |
| Jason Quevada | PJM Interconnection, LLC |
| John Reynolds | PJM Interconnection, LLC |
| Ken Schuyler Ken Seiler | PJM Interconnection, LLC |
| Jason Shoemaker | PJM Interconnection, LLC |
| Mark Sims | PJM Interconnection, LLC |
| Jim Snow | PJM Interconnection, LLC PJM Interconnection, LLC |
| Mark Stanisz | PJM Interconnection, LLC |
| Jack Thomas | PJM Interconnection, LLC |
| Jen Tribulski | PJM Interconnection, LLC |
| Jere Williamson Downs | PJM Interconnection, LLC |
| Art Wolfe | PJM Interconnection, LLC |
| Alex Worcester | PJM Interconnection, LLC |
| Shadab Ali | PPL Electric Utilities Corp. dba PPL |
| Aaron Almonte | PPL Electric Utilities Corp. dba PPL |
| Meagan Kuchan | PPL Electric Utilities Corp. dba PPL |
| Horst Lehmann | PPL Electric Utilities Corp. dba PPL |
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Steven Nadel

Luis Garcia

Garan Gunn

Esam Khadr

Rich Marinelli

Alex Stern

Amanda Rumsey

Christopher Szmodis

Cameron DeAngelis

Leonid Lyakhovich

Heather Svenson

JM Interconnection, LLC PL Electric Utilities Corp. dba PPL Utilities PL Electric Utilities Corp. dba PPL Utilities PL Electric Utilities Corp. dba PPL Utilities PPL Electric Utilities Corp. dba PPL Utilities Public Service Electric & Gas Company Public Service Electric & Gas Company

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Mahila Christopher Ray Mason Tom Hoatson Lubaba Islam Rollie Mangonon Rich Heidorn Michael Yoder Bill Skumanich Sean Chang John Rohrbach **Brad Swalwell** Kenneth Foladare John Sillin Ibrahima Kalle Edrissa Cham Vince DeGiusto Adam Weber

Craig Crider

Chris Mertz

James Wilson

Public Utilities Commission of Ohio (The)
ReliabilityFirst Corporation
Riverside Generating, LLC
Rockland Electric Company
Rockland Electric Company
RTO Insider
RTO Insider
RTO Insider
RTR Energy Solutions LLC
Shell Energy North America (US), LP
Southern Maryland Electric Cooperative
Tangent Energy Solutions, Inc.
Tangibl
The Federal Energy Regulatory Commission
Tibiri Energies
Tradewind Energy, Inc.
UGI Utilities, Inc.

Union Electric Company d/b/a Ameren Missouri

Virginia Electric & Power Company

Virginia Electric & Power Company

Wilson Energy Economics

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Author: Molly Mooney