



Planning Advisory Committee (PAC)

April 16, 2025

Carmel, IN

10:00 am to 1:30 pm ET / 9:00 am to 12:30 pm CT

Dial-in and Webex information available at www.misoenergy.org

Minutes

1. Administrative Items (Cynthia Crane)

a. Call to Order / Roll Call

Meeting called to order at 10:00 am ET.
The Public Meeting Notice was issued.

Chair: Cynthia Crane

Vice Chair: Dave Johnston

MISO Liaison: Jeanna Furnish

Stakeholder Relations: Amanda Jones

Sector Reps:

Affiliate: not present

Coordination: Michael Steiman

End Users: Kavita Maini

Environmental: Natalie McIntire for Sam Gomberg

IPP: Erin Murphy

Muni/Coop/TDU: Steve Leovy

Power Marketers: not present

Public Consumers: Art Iler

State Regulatory: Marcus Hawkins

Transmission Developers: Brian Daschbach

Transmission Owners: Rob Wells

In Person Participants:

Arash Ghodsian, Invenergy

Art Iler, IN OUCC

Bridget Sparks, AES

Carolyn Wetterlin, Xcel Energy

David Harlan, Veriquest

David Hennen, Ameren

Eric Thoms, Invenergy

Erin Schlick, Next Air Energy

Ginger Hodge, Customized
Energy Solutions

Jason Atwood, Yes Energy

Jeffery Kelley, NIPSCO

Justin Stewart, Ameren

Katherine Thole, Ameren

Lise Trudeau, MN PUC

Mike Schowalter, Fresh Energy

Naishadh Hedge, Ameren

Ray McCausland, Ameren

Robert King, Splight

Sandeep Tadepally, RWE

Shivam Sharma, Alliant Energy

Remote Participants:

Aaron Demuth, OTP

Abhishek Dinakar, Savion

Adam Renfandt, ND SG

Adam Solomon, Vestas

Adam Stern, New Leaf Energy

Advait Rode, MI PSC

Akeyo Seun, Pattern Energy

Alan C, New Consulting

Albert Saad,

asaad@garnetnyc.com

Alex Kloiber, CIPCO

Alex Lousos, AMP

Allie Koeplinger, MI PSC

Amal Mallavarapu, Plenitude

Amber Joyce, MDU

Andres Hernandez, National
Grid

Andrew, LCS, LP

Andrew Berg, National Grid

Andrew Ford, GDS

Andrew J Cowen, DLD Assests
Management

Andrew Kienitz, MN Power

Andy Kowalczyk, SREA

Angela Maiko, GRE

Ann Coultas, Cordelio

Anthony A Alvarez, IA OCA

Anton Ptak, EDFR

Apoorva Desai, Alliant

Armin Karabegovic, COMO

Aruna Ranaweera, Hectate

Aydrik Schuh, MDU

Barton Norfleet, MS PSC

Ben Dayman, MEC

Ben Kaldunski, Xcel

Ben Stearney, ACES

Beth Zelenka, ATC

Bill Booth, MPSC

Bill Vanderlaan, ICC

Boone Staples, Tenaska

Brad Pope, OMS

Brandon Parmer, AEP

Brandon Waldrup, Cooperative

Energy

Brenda Prokop, CES

Brian Daschbach, LS Power

Brian Giggee, MDU

➡ Post Only Item

✓ Potential Voting Item

^ Feedback Requested

* Verbal Report

Public



Brian Sullivan, Entergy
Brinda Malladi, Arevon
Brock Ondayko, AEP
C McKenzie, AEU
Carrie Rowland, Swift Current
Carson Hemphill, MEC
Chad Craven, Savion
Chengyue Guo, ATC
Chris Elie, Duke
Chris Norton, AMP
Chris Plante, WEC
Chris Stolz, PG Renewables
Chris Thibodeaux, Cleco
Christopher Elie, Duke
Christopher Miller, FERC
Cindy Guillot, Cleco
Cindy Hammarlund, CES
Clayton W. Robinson, Cordelio
Clint Savoy, SPP
Cody Anderson, OTP
Connie Groh, CUB of Michigan
Craig Wrisley, Xcel
Curtis Tarwater, Sigmawatt
Cynthia Crane, ITC
Damian Berger, Atwell Group
Dan Alfred, CMS
Dan Stroh, Ameren
Daniel Boratko, Entergy
Daniel Clark Scout, Scout
Clean Energy
Darren Kearney, SD PUC
Dave Sandefur,
David Carlson, IGS
David Davis, Apex
David Johnston, IN URC
David M Damast, Newbrook
Capital
David McRae, AECC
David Osterkamp, ITC
David Ricketts, Vistra
David Sapper, CGA
David Savage, IN URC
David Shaffer, Dentons
David Zito, Gabel
Derek Kou, EDP
Derek Mosolf, GRE
Derek Snyder, OTP
Derek Sunderman, Savion
Devon Pehrson, NGR
DeWayne Todd, Alcoa
Diane Janicki, BETM
Drew Hagin, Azimuth
Renewables
Dylan Stockert, MDU
Dylan Stupca, OTP
Eric Stephens, AMP
Erik Hanser, LARA
Erik Winsand, ATC
Erin Hunzeker, Cainmani
Ethan Chastain, HEPN
Ethan Fairfield, SIG
Ethan Tedder, SPP

Eva Kaso-Collette, Nexamp
Frederick Salvo, Baker
Donelson
Haley Cook, Burns McDonnell
Hannah McCorry, ICC
Heidi Martinson, CMP
Heidi Ratz, Pattern Energy
Helen Kemp, Splight
Henry Hearle, B. Riley
Financial
Hicham Khireddine, National
Grid
Humberto Branco, REV
Renewables
Jacob Lampi, CIPCO
Jacob Strauss, MN PUC
Jake Weinberg, Gabel
James McCormick, CMS
James Thomas, PowerGEM
Jared Alholinna, GRE
Jason Hastings, Total Energies
Jay Rasmussen, Duke
Jeff Baker, Duke
Jeff Gindling, Duke
Jena Arnold, SPP
Jeremi Wofford, Ameren
Jeremiah Eaton, Duke
Jeremy Caron, GPI
Jeremy Jones, Entergy
Jerry Martinez, SolSystems
Jessica Burdette, MN PUC
Jill Kringstad, ND SG
Jodi Walters, EDP
John Bott, IMPA
John Chen, Arrow Point
John Liskey, CUB of Michigan
John Thomasen, MGE
John Weber, MRES
John Wolfram, Prime Group for
BREC-CWLP-HE-SIPC-WVPA
Jonathan Pagnussat, Arevon
Joseph Silvers, PowerGEM
Josh Brynes, IA IUB
Josh Kinney, Hexagon
Josh Tellier, ATC
Justin Davies, Ameren
Justin McNeil, KS PSC
Justin Salinas, ENEL
Kalli Bruce, UrbanGrid
Karl Kohlrus, PPI
Katie Rock, Blue Green
Alliance
Kavita Maini, CMT, MIC,
MLEC
Kellie Lovan, KY PSC
Ken Foladare, Tangibl
Ken Gavin, DTE
Ken Kagy, CFU
Kevin Kingsley, MDU
Kimberly Dunning, Center
Point
Krista Hendricks , Next Era

Kurt Vanderlick, Cleco
Kyle Lockhouse, Sun Raycer
Kyle Watson, Entergy
Laura Munoz, Cubico
Leo Fajardo, 174PG
Leslie Hamby, Center Point
Lise Trudeau, MN PUC
Liz Salerno, GQS
Luis de la Mora, Strom Power
Luke Kinder, AR PSC
Madeleine Balchan, Xcel
Maggie Kristian, NGR
Manish Jain, Sargent & Lundy
Marcus Hawkins, PSCW
Margaret Miller,
Mark Duquaine, ACES
Mark Zelensky, PPL
Marshall Courtney, PGR
Maxx Snell, MDU
Meghan Ross, ITC
Melanie Osterhaus, Quanta
ISG
Michael Dantzler, Ranger
Power
Michael Fischette, LBWL
Michael Fleck, ITC
Michael Saer, GRE
Michael Steiman, MB Hydro
Mike Cronier, LRE
Mike Dantzler, Ranger Power
Mike Dicks, HEPN
Mike Fischette, LBWL
Mike Gahimer, Arevon
Mike Hamlin, ITC
Mike Saer, GRE
Mike Schowalter, Fresh Energy
Mikhaila Calice, PSCW
Mitchell Myhre, Alliant
Steve Dowell, Alcoa
Natalie McIntire, NRDC
Neilay Mehta, Arrow Point
Nick Schroeder, MGE
Nick Schwager, Atlantica
Nick Tenney, CMS
Nikki Jeffers, Arevon
Nilesh Goyalani, New Project
Media
Nina Zheng, RWE
Nitin Kushwaha, NGR
Noel Augustine, SB Energy
Noel Darce, Stone Pigman
Olivia Harby, Galehead
Peter Lamaina, Arevon
Peter Schuster, MEC
Presley Reed, Dentons
Preston Hart, OTP
Preston Riewer, OTP
Priscilla N Ndiwani, Vesper
R Fink, PGR
Rachel Passman, Gabel
Rachel Wiedewitsch, MN PUC
Raj Pudhota, TED Renewables

Ray McCausland, Ameren
Rhett Edward Trease, Duke
Rhonda Peters, Intertranec
Rick Benitez, BENG
Rob Strange, Yes Energy
Robert Fox, NIPSCO
Robert Frank, NDSG
Robert Vosberg, LPSC Staff
Consultant
Roberto Paliza, Paliza
Consulting
Ross Coons, ACES
Ruth Kloecker, ITC
Ryan Lovan, IUC IA
Ryan Lowe, MB Hydro
Ryan McKeever, Husch
Blackwell
Ryan Snyder, Center Point
Ryan Wilhelmus, Big Rivers
Rylan Hanson, OTP
Sam Benson, MN PUC
Sam Mabry, Entergy
Sam Malech, Bates White
Sangeetha Rajasekeran, Nira
Energy
Sanjay Bhatia, Savion
Sarah Seng, CMS

Sawyer McClure, WPSCI
Scott Deffenderfer, Ameren
Scott Hoberg, MN Power
Sean Zhang,
Seth, Highland Peak Capital
Shailabh Mazari, Avangrid
Shawn Welch, Doral LLC
Shelby Leisz, AES
Shirin Vora, Mission Clean
Energy
Shukul Mazari, Savion
Sky Goliber, Galehead
Soma Soko, New Leaf Energy
Sonny Nguyen, Cubico
Srijan Karim, MEC
Stacie Hebert, OTP
Steve Rakow, MN PUC
Steven Leovy, WPPI
Sumit Mundade, Galehead
Susan Rossi, Xcel
Taylor Costes, IN URC
Ted Weber, ATC
Temujin Roach, EDFR
Terry Jarrett, MJMEUC
Terry Volkmann, GLP
Thomas Chamberlain, Entergy
Thomas Siegrist, SMXB Law

Thompson Adu, Engie
Tim Ellis, Clenera
Tim Hohenstatt, Duke
TJ Cochran, Ameren
Trey Mayeux, Cleco
Tricia DeBleeckere, OMS
Tyler Bergman, CGA
Tyler Jorgenson, OTP
Tzu-Yuan Su, DPC
Vara Sajjanapu, Cubico
Vinay Gupta, ICF
Wendy Anderson, MN Power
Wendy Reed, Wright &
Talisman
Werner Roth, PUCT
Will Koebel, PSCW
Will Lovelace, MPC
Yonas Demissie, 174PG
Yvonne Cappel-Vickery, All 4
Energy
Zach Farrar, Great Bay
Renewables
Zach Fjestad, OTP
Zach Van Ness, Matrix
Zachary Callen, ICC
Zack Heidemann, MI PSC

b. Review Agenda

Agenda accepted as posted.

c. Review Meeting Minutes, Action Items

Two sets of minutes were adopted as posted: February 19 and March 7. All action items were closed.

Action Item	Owner	Date	Status
PAC Leadership will forward IPWG/PSC charters to the Steering Committee for its approval	PAC Leadership	2/19/2025	Closed
PAC Leadership will notify the IPWG of its new issue assignment	PAC Leadership	2/19/2025	Closed
Feedback requests will be opened for <ul style="list-style-type: none"> MTEP Guiding Principles Biennial Review (March 24) MISO PJM JOA Draft Tariff (March 7) ERAS proposal (March 3) 	MISO	2/19/2025	Closed
Add PAC special meeting to management plan	PAC Leadership	2/19/2025	Closed
Remove the Environmental Sector from slide 3 "MISO has connected with multiple sectors"	MISO	2/19/2025	Closed

d. Review Management Plan

Updates to the management plan were posted in redline. There were no questions.

2. Status Updates ➡ (Cynthia Crane)

a. Interconnection Process Working Group (IPWG)

b. Planning Subcommittee (PSC)

c. Steering Committee (SC)

Status reports were posted with meeting materials. There were no questions.

➡ Post Only Item

✓ Potential Voting Item

^ Feedback Requested

* Verbal Report

3. Liaison Report (Jeanna Furnish)

Jeanna provided highlights of her written liaison report, including:

- 2022 DPP Cycle Update: Work on the 2022 DPP Cycle continues while the estimated start date for the 2023 Phase 1 study kick-off is July 7
- Queue Cap Tracker Update: A new online tool tracks the GW total of submitted interconnection requests and regional caps
- Expedited Resource Addition Study (ERAS) Update: ERAS was filed with FERC; June 2 is the estimated first study kick-off if approved by the requested effective date
- MISO PJM JOA Feedback: No substantive comments from stakeholders; MISO intends to file by the end of April 2025
- Interregional Planning Update: Noted updates to March 7 MISO-PJM IPSAC and March 28 MISO-SPP IPSAC; MISO will provide an update on the MISO-SPP TMEP JOA filing initiative to the RECBWG on April 15
- Announcements and Workshops
 - New GIA portal coming this summer!
 - May 8: Summer Readiness Workshop
 - May 15: Futures Redesign Workshop
 - May 16: MISO SPP Common Seams Initiative (hosted by SPP)
 - May 27: RECBWG
 - June 10 – 12: MISO Board of Directors and Advisory Committee

4. MISO Posted Items ➡ (Jeanna Furnish)

a. Expedited Project Review (EPR) Requests

AMIL Rebuild Prest-Tibbs Line; AMMO New Rootbeer load addition; AMMO New Central load addition; ELL New Riparian substation; HE New Merom load addition; OTP New Big Stone South load addition; WVPA New Stillwell-Elderberry line

Jeanna answered a stakeholder inquiry by describing the EPR approval process. There were no other questions.

5. Order 1920 Update (Edin Habibovic for Jeremy Bennett)

Edin provided a progress update on MISO's FERC Order 1920/1920-A assessment. MISO's robust Long-Term Planning process is well-positioned for Order 1920 compliance, supported by a strong history of proactive regional planning that enhances reliability, economic efficiency, addresses future conditions and industry trends, while also identifying opportunities to refine timelines, strengthen stakeholder engagement, and assess data needs. Back in October, MISO requested—and was granted—a regional compliance extension. The new deadline is June 2026, with the first full planning cycle set to begin in June 2028. Additionally, MISO filed a request on April 15 for a 16-month interregional compliance extension. The PAC will be utilized to continue communicating Order 1920 efforts; however, other stakeholder forums will also discuss relevant topics in deeper detail such as cost allocation at RECBWG and interregional planning at IPSAC.

Edin provided an in-depth review of the Order's mandates and requirements as reflected in the posted presentation. He answered stakeholders' questions about analyzing the work required between current processes compared to full compliance and noted that stakeholders have an interest in discussing the workplan when the time comes.

6. Reports from IPWG and PSC

a. Expedited Project Review Improvements Update from PSC (PAC-2024-1)^ (Amanda Schiro)

Amanda presented proposed modifications to the EPR process that were developed in collaboration with the PSC. MISO desires to improve the EPR process due to the complexity and volume of recent submittals. She shared revisions to BPM-020 Section 4.1.4 and requested feedback by May 7. She reiterated MISO's goal to provide a sustainable, defined structure for out-of-cycle MTEP studies and approval while maintaining a competitive, timely process for members. She contrasted the current

vs. proposed processes and summarized primary feedback from stakeholders. The final proposal provides a consistent study timeframe with monthly opportunities for stakeholder participation, use of a single study model including all previously completed and proposed EPRs and newly approved GIAs, and multiple analysis paths to reduce the likelihood of delays. Finally, she provided highlights of the BPM-020 Section 4.1.4 changes as noted on slide 8 of the posted presentation.

Stakeholders asked clarifying questions about topics such as competition for load growth locations amongst various TOs and RTOs, potential interdependence of load and generation projects, and whether there was interest from MISO to develop a load interconnection queue. MISO staff responded, including clarifying that MISO is not considering a load interconnection queue. Jeanna also shared that MISO soon is publishing a new dashboard to the MTEP portal for user convenience in understanding some of the existing data. Amanda noted that – subject to feedback due May 7 – MISO will implement the new EPR process in early June.

b. LRTP Integration BPM-015 Changes Update from IPWG^ (Aneta Godbole)

Aneta shared MISO's proposed changes to BPM-015 for Bench Case Development and asked stakeholders for feedback. In the March 4 IPWG, MISO presented BPM edits that would allow integration of LRTP Tranche 2.1 into the bench case for the DPP 2023 Cycle starting in July. MISO reviewed the three public and one non-public feedback responses on the proposed changes: stakeholders agreed with the changes but needed more clarification on utilizing all LRTP portfolios on past cycles. MISO sought feedback on the updates by April 29, which are expected to be completed in early Q2 2025 before the start of the DPP 2023 Cycle.

Aneta confirmed that no Tariff update is needed to enable this change.

c. JTIQ Integration into DPP 2023 Cycle^ (Aneta Godbole)

Aneta also shared MISO's plan to seek FERC approval on earlier use of JTIQ and asked for feedback. The JTIQ Tariff language does not allow MISO to integrate JTIQ into the DPP 2023 Cycle even though the cycle has not yet kicked off. MISO will seek FERC approval to allow earlier adoption into the DPP 2023 Cycle and asked the PAC for feedback by April 29. Attachment X changes were posted with meeting materials.

MISO staff explained that the primary factor driving this change is the delay in kicking off the DPP 2023 cycle. This delay, partly due to efforts to integrate SUGAR, now enables an earlier integration of JTIQ into DPP 2023 cycle. Andy Witmeier and Aneta answered stakeholder questions about GRID funding for the JTIQ portfolio, which the DOE is evaluating; the start date for DPP 2023; and the existing process allowing Interconnection Customers to withdraw their projects penalty free prior to the kickoff call. Andy indicated that SPP also intends to incorporate JTIQ into their process soon as well and will make the same filing.

MISO will open a combined feedback request for Items 06b and 06c with comments due April 29.

7. Transmission Planning and Other Study Updates

a. n/a

8. Update on Futures (Christina Drake)

Christina provided an overview and status update of Series 2 Futures Redesign. MISO continues its internal Futures Redesign work through reviewing various assumptions, beginning the capacity expansion model building, developing a supply constraint approach, and reviewing siting methodology. MISO continues to review and work through various assumptions for each Future, Resource and Energy Adequacy and other key inputs. Upcoming workshops: May 15, June 26, August 29, September 24, October 29 leading up to a final report in December timeframe.

Christina answered numerous questions from stakeholders on the work to date and plan to develop and refine Future 4 "Supply Shift". She noted that a scope discussion on sensitivities has been added to the schedule for this Fall and answered questions on the purpose and use of the sensitivities in this analysis.



MISO has not yet made decisions on what sensitivities to run and will delve into modeling closer to 2026. A stakeholder expressed concern that the Futures decisions were being made in a workshop setting vs. in the PAC. Christina talked about the importance of these technical discussions and use of formal feedback to understand stakeholder positions at this time. After further discussion, MISO reiterated that it currently has made no decisions or proposals how many or which Futures will be used for model building and will bring this to the PAC for discussion later.

9. ERAS JOA Updates (PAC-2023-1) (Sydney Cooper)

Sydney provided an overview of Joint Operating Agreement (JOA) updates related to the Expedited Resource Addition Study (ERAS) process. The final ERAS proposal was filed with FERC on March 17, 2025, with a requested effective date of May 17, 2025. During the development process, MISO communicated that the SPP JOA would be updated to reflect ERAS in conjunction with the JTIQ process. Minor edits were made in accordance with those operating procedures, which are posted with meeting materials in redline. MISO anticipates filing the JOA updates with FERC in early May.

There were no questions nor action items. Sydney noted that MISO and SPP are still making final refinements to the language, so there may be small changes before posting the final language.

10. New Business

No new business

11. Review Action Items (Amanda Jones)

Action Item	Owner	Date	Status
Feedback requests will be opened for <ul style="list-style-type: none">EPR Proposed BPM language (May 7)LRTP/JTIQ integration changes (April 29)	MISO	4/16/2025	Closed

12. Adjourn

Meeting adjourned at 1:06 pm ET.

Next Meeting: May 28, 2025