



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 OUC
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	Eva Kaso-Collette, Nexamp	Kurt Vanderlick, Cleco
Brinda Malladi, Arevon	Frederick Salvo, Baker	Kyle Lockhouse, Sun Raycer
Brock Ondayko, AEP	Donelson	Kyle Watson, Entergy
C McKenzie, AEU	Haley Cook, Burns McDonnel	Laura Munoz, Cubico
Carrie Rowland, Swift Current	Hannah McCorry, ICC	Leo Fajardo, 174PG
Carson Hemphill, MEC	Heidi Martinson, CMP	Leslie Hamby, Center Point
Chad Craven, Savion	Heidi Ratz, Pattern Energy	Lise Trudeau, MN PUC
Chengyue Guo, ATC	Helen Kemp, Slight	Liz Salerno, GQS
Chris Elie, Duke	Henry Hearle, B. Riley	Luis de la Mora, Strom Power
Chris Norton, AMP	Financial	Luke Kinder, AR PSC
Chris Plante, WEC	Hicham Khireddine, National	Madeleine Balchan, Xcel
Chris Stoltz, PG Renewables	Grid	Maggie Kristian, NGR
Chris Thibodeaux, Cleco	Humberto Branco, REV	Manish Jain, Sargent & Lundy
Christopher Elie, Duke	Renewables	Marcus Hawkins, PSCW
Christopher Miller, FERC	Jacob Lampi, CIPCO	Margaret Miller,
Cindy Guillot, Cleco	Jacob Strauss, MN PUC	Mark Duquaine, ACES
Cindy Hammarlund, CES	Jake Weinberg, Gabel	Mark Zelensky, PPL
Clayton W. Robinson, Cordelio	James McCormick, CMS	Marshall Courtney, PGR
Clint Savoy, SPP	James Thomas, PowerGEM	Maxx Snell, MDU
Cody Anderson, OTP	Jared Alholinna, GRE	Meghan Ross, ITC
Connie Groh, CUB of Michigan	Jason Hastings, Total Energies	Melanie Osterhaus, Quanta
Craig Wrisley, Xcel	Jay Rasmussen, Duke	ISG
Curtis Tarwater, Sigmawatt	Jeff Baker, Duke	Michael Dantzler, Ranger
Cynthia Crane, ITC	Jeff Gindling, Duke	Power
Damian Berger, Atwell Group	Jena Arnold, SPP	Michael Fischette, LBWL
Dan Alfred, CMS	Jeremi Wofford, Ameren	Michael Fleck, ITC
Dan Stroh, Ameren	Jeremiah Eaton, Duke	Michael Saer, GRE
Daniel Boratko, Entergy	Jeremy Caron, GPI	Michael Steiman, MB Hydro
Daniel Clark Scout, Scout	Jeremy Jones, Entergy	Mike Cronier, LRE
Clean Energy	Jerry Martinez, SolSystems	Mike Dantzler, Ranger Power
Darren Kearney, SD PUC	Jessica Burdette, MN PUC	Mike Dicks, HEPN
Dave Sandefur,	Jill Kringstad, ND SG	Mike Fischette, LBWL
David Carlson, IGS	Jodi Walters, EDP	Mike Gahimer, Arevon
David Davis, Apex	John Bott, IMPA	Mike Hamlin, ITC
David Johnston, IN URC	John Chen, Arrow Point	Mike Saer, GRE
David M Damast, Newbrook	John Liskey, CUB of Michigan	Mike Schowalter, Fresh Energy
Capital	John Thomasen, MGE	Mikhaila Calice, PSCW
David McRae, AECC	John Weber, MRES	Mitchell Myhre, Alliant
David Osterkamp, ITC	John Wolfram, Prime Group for	Steve Dowell, Alcoa
David Ricketts, Vistra	BREC-CWLP-HE-SIPC-WVPA	Natalie McIntire, NRDC
David Sapper, CGA	Jonathan Pagnussat, Arevon	Neilay Mehta, Arrow Point
David Savage, IN URC	Joseph Silvers, PowerGEM	Nick Schroeder, MGE
David Shaffer, Dentons	Josh Brynes, IA IUB	Nick Schwager, Atlantica
David Zito, Gabel	Josh Kinney, Hexagon	Nick Tenney, CMS
Derek Kou, EDP	Josh Tellier, ATC	Nikki Jeffers, Arevon
Derek Mosolf, GRE	Justin Davies, Ameren	Nilesh Gowalani, New Project
Derek Snyder, OTP	Justin McNeil, KS PSC	Media
Derek Sunderman, Savion	Justin Salinas, ENEL	Nina Zheng, RWE
Devon Pehrson, NGR	Kalli Bruce, UrbanGrid	Nitin Kushwaha, NGR
DeWayne Todd, Alcoa	Karl Kohlrus, PPI	Noel Augustine, SB Energy
Diane Janicki, BETM	Katie Rock, Blue Green	Noel Darce, Stone Pigman
Drew Hagin, Azimuth	Alliance	Olivia Harby, Galehead
Renewables	Kavita Maini, CMTC, MIC,	Peter Lamaina, Arevon
Dylan Stockert, MDU	MLEC	Peter Schuster, MEC
Dylan Stupca, OTP	Kellie Lovan, KY PSC	Presley Reed, Dentons
Eric Stephens, AMP	Ken Foladare, Tangibl	Preston Hart, OTP
Erik Hanser, LARA	Ken Gavin, DTE	Preston Riewer, OTP
Erik Winsand, ATC	Ken Kagy, CFU	Priscilla N Ndikwani, Vesper
Erin Hunzeker, Cainmani	Kevin Kingsley, MDU	R Fink, PGR
Ethan Chastain, HEPN	Kimberly Dunning, Center	Rachel Passman, Gabel
Ethan Fairfield, SIG	Point	Rachel Wiedewitsch, MN PUC
Ethan Tedder, SPP	Krista Hendricks, Next Era	Raj Pudhota, TED Renewables

Ray McCausland, Ameren	Sawyer McClure, WPSCI	Thompson Adu, Engie
Rhett Edward Trease, Duke	Scott Deffenderfer, Ameren	Tim Ellis, Clenera
Rhonda Peters, Intertranec	Scott Hoberg, MN Power	Tim Hohenstatt, Duke
Rick Benitez, BENGC	Sean Zhang,	TJ Cochran, Ameren
Rob Strange, Yes Energy	Seth, Highland Peak Capital	Trey Mayeux, Cleco
Robert Fox, NIPSCO	Shailabh Mazari, Avangrid	Tricia DeBleckere, OMS
Robert Frank, NDSG	Shawn Welch, Doral LLC	Tyler Bergman, CGA
Robert Vosberg, LPSC Staff	Shelby Leisz, AES	Tyler Jorgenson, OTP
Consultant	Shirin Vora, Mission Clean	Tzu-Yuan Su, DPC
Roberto Paliza, Paliza	Energy	Vara Sajjanapu, Cubico
Consulting	Shukul Mazari, Savion	Vinay Gupta, ICF
Ross Coons, ACES	Sky Goliber, Galehead	Wendy Anderson, MN Power
Ruth Kloecker, ITC	Soma Soko, New Leaf Energy	Wendy Reed, Wright &
Ryan Lovan, IUC IA	Sonny Nguyen, Cubico	Talisman
Ryan Lowe, MB Hydro	Srijan Karim, MEC	Werner Roth, PUCT
Ryan McKeever, Husch	Stacie Hebert, OTP	Will Koebel, PSCW
Blackwell	Steve Rakow, MN PUC	Will Lovelace, MPC
Ryan Snyder, Center Point	Steven Leovy, WPPI	Yonas Demissie, 174PG
Ryan Wilhelmus, Big Rivers	Sumit Mundade, Galehead	Yvonne Cappel-Vickery, All 4
Rylan Hanson, OTP	Susan Rossi, Xcel	Energy
Sam Benson, MN PUC	Taylor Costes, IN URC	Zach Farrar, Great Bay
Sam Mabry, Entergy	Ted Weber, ATC	Renewables
Sam Malech, Bates White	Temujin Roach, EDFR	Zach Fjestad, OTP
Sangeetha Rajasekeran, Nira	Terry Jarrett, MJMEUC	Zach Van Ness, Matrix
Energy	Terry Volkmann, GLP	Zachary Callen, ICC
Sanjay Bhatia, Savion	Thomas Chamberlain, Entergy	Zack Heidemann, MI PSC
Sarah Seng, CMS	Thomas Siegrist, SMXB Law	

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)

- Interconnection Process Working Group (IPWG)
- Planning Subcommittee (PSC)
- Steering Committee (SC)

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

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