



Planning Advisory Committee (PAC)

January 21, 2026

Carmel, IN

10:00 am to 2:15 pm ET / 9:00 to 1:15 pm CT

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

Minutes

1. Administrative Items (Cynthia Crane)

a. Call to Order / Roll Call

Public Meeting Notice and Code of Conduct

The meeting was called to order at 10:00 am ET

The Public Meeting Notice and Code of Conduct were read

Chair: Cynthia Crane

Vice Chair: Dave Johnston

MISO Liaison: Jeanna Furnish

Stakeholder Relations: Jake Carrico

Sector Reps:

Affiliate: not present

Coordination: Michael Steimam

Eligible End Users: Kavita Maini

Environmental: Natalie McIntire

IPPs: Erin Murphy

Muni/Coop/TDU: Steve Leovy

Power Marketers: not present

Public Consumers: Art Iler

State Regulatory: Ryan Lovan

Transmission Developers: not present

Transmission Owners: Rob Wells

In Person Participants:

Santiago Alegria, Celeo
Redes

Jeremy Bennett, Avangrid

Cynthia Crane, ITC

Guillermo Dtknal

Uzquiano, Celeo

Virginia Hodge, CES

Arthur Iler, IN OUCC

Dave Johnston, IURC

James Kelley, Daikin

Gabriel Maldonado,

Acciona Concesiones

Erin Schlick, NextEra

Energy

Shivam Sharma, Alliant
Energy

Justin Stewart, Ameren

Sandeep Tadepally, RWE

Clean Energy

Diana Torres, Deriva

Michael Alter, Stem

Jessica Burdette,

Geronimo Power

Ben Kodres-O'Brien, MN

PUC

Margaret Kristian, ITC

Midwest

Anton Ptak, EDF power
solutions

Temujin Roach, EDF

Stephen Rose, Minnesota

PUC

Lise Trudeau, Minnesota

PUC

Carolyn Wetterlin, Xcel

Energy

Daniel Zuckerman,

Minnesota Dept of

Commerce

Remote Participants:

Aaron Demuth, OTP

Aaron Stemplewicz, Earth

Justice

Aaron Stewart, NextEra

Aasawari Pawar, Grid

United

Abhishek Singh, Rev

Renewables

Abhishek Dinakar, Savion

Abigail Reid, MGE

Adam Foltz, ATC

Adam Manty, ATC

Adam Renfandt, NDSG

Akeyo Seun, Pattern

Energy

Alan Comnes, New

Consulting

Alex Carpenter, MEC

Alex Kloiber, CIPCO

Alexis Jackson, DTE

Allen Gleckner, Google

Allie Koeplinger, MI PSC

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^ Feedback Requested

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Amanda Cook, RTO Insider
 Amber Joyce, MDU
 Andrew Kienitz, MN Power
 Andy Cotter, ATC
 Andy Kowalczyk, SREA
 Andy Narvesen, OTP
 Angela Maiko, GRE
 Anna Fernandez, Wright & Talisman
 Anne Marie Hirschberger, Wright & Talisman
 Annmy Thomas, ICF
 Anthony A. Alvarez, Iowa OCA
 Anushree Pethe, Daymark EA
 Arash Ghodsian, Invenergy
 Austin Baker, WVPA
 Aydrik Schuh, MDU
 Barton Norfleet, PSC MS
 Ben Dayman, MEC
 Ben Kodres-O'Brien, MN PUC
 Ben Molthen, Spearmint
 Ben Scott, CMS
 Ben Stearney, ACES
 Beth Soholt, CGA
 Bill Booth, Michael Best
 Bill Turnbull, MEC
 Bob German, DTE
 Bob McKee, ATC
 Brad Arnold, Ameren
 Brad Pope, OMS
 Brandon Parmer, AEP
 Brant Werts, Duke
 Brenda Prokop, CES
 Brent Taylor, MPPA
 Brian Daschbach, LS Power
 Brian Drumm, ITC
 Bruce Grey, Samsung
 Bryan Rushing, Longview
 Carolyn Wetterlin, Xcel
 Carrie Rowland, Swift Current Energy
 Carson Hemphill, MEC
 Chris Nelson, SD PUC
 Chris Norton, AMP
 Chris Stolz, PGR
 Christian Winter, MN Power
 Christiana Ivanova, GQS Energy
 Christina Duong, CC Renew
 Christopher Elie, Duke
 Christopher Herbert, Exelon
 Christopher T Plante, WEC

Ciaran Gallagher, Clean Wisconsin
 Cindy Hammarlund, CES
 Clayton Robinson, Cirdelio Power
 Clayton W. Robinson, Cordelio Power
 Cody Anderson, OTP
 Cody Doll, NextEra
 Cody Ruben, 1898 & Co.
 Constance Groh, CUB of MI
 Corey Kupersmith, Sun2o
 Craig Spencer, Alliant
 Cynthia Bothwell, U.S. DOE
 Dan Alfred, CMS
 Daniel Boratko, Entergy
 Darrell Newcomer, CMS
 Darren Kearney, SD PUC
 Dave Harlan, Veriquest
 David Hennen, Ameren
 David Leventhal, AES
 David McRae, AECC
 David Osterkamp, ITC
 David Ricketts, Vistra
 David Sapper, CGA
 David Savage, IURC
 David Shaffer, Dentons
 David Zito, Gabel
 Derek Mosolf, GRE
 Derek Sunderman, Savion
 DeWayne Todd, Alcoa
 Diane Janicki, BETM
 Dinesh Patil, ICF
 Douglas Taylor, Diverxia
 Dylan Drugan, Daymark EA
 Dylan Rubenstein, Ranger Power
 Dylan Stockert, MDU
 Edward Garvey, Aesi Consulting
 Emily Piontek, CGA
 Eric Stephens, AMP
 Eric Thoms, Invenergy
 Erik Hanser LARA, MI PSC
 Erik Winsand, ATC
 Erin Buchanan, CMPAS
 Erin Chiari, Jupiter Power
 Erin Hunzeker, WPMC
 Erin Murphy, NextEra
 Ethan Chastain, Hoosier Energy
 Eva Kaso-Collette, Orsted
 Evan Hays, AES
 Felix Wang, Grid Insights
 Frederick Salvo, Baker Donelson
 George Kogut, NYPA
 Gina Severance, ITC

Greg Jekel, Hoosier Energy
 Haley Cook, 1898 & Co.
 Heather Palmer, Iowa OCA
 Heidi Ratz, Pattern Energy
 Hicham Khireddine, National Grid
 Inaki Planas, Acciona
 Isaiah Carter, CMS
 Jablan Djordjevic, DTE
 Jake Chapman, LA PSC
 James McCormick, CMS
 Jared Alholinna, GRE
 Jared Rasbold, Cooperative Energy
 Jason Cox, EQ Energy Advisors
 Jason Mazigian, BEPC
 Jason Weiers, OTP
 Jay Rasmussen, Duke
 Jeff Dicharry, Entergy
 Jeff Dodd, Viridon
 Jeff Eddy, ITC
 Jeff Gindling, Duke
 Jeffrey Stein, BP
 Jennifer Vosburg, Jennifer J. Vosburg, LLC
 Jenny Liu, Jupiter Power
 Jeremy S Jones, Entergy
 Jerry White, Cleco
 Jessica Burdette, Geronimo Power
 Joan Soller, PE
 Joanna Wu, Luminant
 Jodi Walters, CMPAS
 John Liskey, CUB MI
 John Miller, CEBA
 John Schwegler, Entergy
 John Wolfram, Prime Group for 5 Owners
 Jonah Baskin, Sierra Club
 Justin Baniqued, Diverxia
 Justin Davies, Ameren
 Justin McNeil, KY PSC
 Justin Stewart, Ameren
 Kara Fidanza, NRG
 Kathryn Cox-Arslan, New Leaf Energy
 Katie Rock, BlueGreen Alliance
 Kavita Maini, MIC, MLEC, CMTC
 Keith Howe, GRE
 Ken Gavin, DTE
 Kendall White, NextEra
 Keyur Patil, Zero Emission Grid
 Kimberly Dunning, CenterPoint
 Kristen Parker Long, Entergy

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^ Feedback Requested

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Public



Kristina Grandquist, MEC
 Kurt Vanderlick, Cleco
 Kyle M Watson, Entergy
 Lane Sisung, LA PSC
 Laura Hannah, NRDC
 Lauren Azar, Azar Law LLC
 Lei Tang, NextEra
 Lekhaj Patha, 1898 & Co.
 Leslie Hamby, CenterPoint
 Liqin Jiang, Duke
 Lisa Barrett, AEU
 Lise Trudeau, MN PUC
 Luke Kinder, AR PSC / APSC
 Mansi Agrawal, ICF
 Maqsood Shariff, CA
 Margaret Kristian, ITC
 Mark Price, DC Energy
 Mark Zelensky, PPL
 Matt Harward, Healy Law
 Matt Tillman, 1803 Electric Coop.
 Maurice Moss, ACP
 Maxx Snell, MDU
 Meghan Ross, ITC
 Meredith Evans, SoCo
 Michael Fleck, ITC
 Michael Hoadley, MAC
 Michael L. Dantzler, Ranger Power
 Michael Ratliff, Spearmint
 Michael Saer, GRE
 Michael Steiman, MB HYDRO
 Mike Cronier, LRE
 Mike Dicks, Hoosier Energy
 Mike Fischette, LBWL
 Mike Gahimer, Arevon
 Mike Mooney, Hoosier Energy
 Mike Schowalter, Fresh Energy
 Mike Speerschneider, Exus
 Mitchell Myhre, Alliant
 Mithil Acharya, EPE Consulting
 Mithun Mallick, Aypa
 Molly Lundberg, MN8 Energy
 Naishadh Hegde, Ameren
 Natalie Cotton-Nessler, CES

Natalie McIntire, NRDC
 Nate Knopf, Hoosier Energy
 Nick Schroeder, MGE
 Nitin Kushwaha, Geronimo Power
 Noel Darce, Fishman Haygood
 Peter Schuster, MEC
 Phillip Beharie, Cordelio Power
 Phillip Miller, Cleco
 Piyush / Zero-Emission Grid LLC, Zero Emission Grid
 Pratisha Solanki, New Project Media
 Presley Reed, Dentons
 Preston Hart, OTP
 Pruthvi, Not Provided
 Quinn Beckham, KCE
 Raj Pudhota, TED
 Raluca Lascu, DTE
 Ray McCausland, Ameren
 Rebekah Kelman, Cordelio Power
 Renae Steichen, Rev Renewables
 Rhonda Peters, InterTran EC
 Rob Wells, ITC
 Robert Frank, NDSG
 Robert German, DTE
 Robert Vosberg, LPSC Cnslt.
 Roberto Paliza, Paliza Rock Park, MN PUC
 Ron Slagel, Ranger Power
 Ruth Kloecker, ITC
 Ruth Pallapati, MN Power
 Ryan Lovan, IA IUC
 Ryan Lowe, MB HYDRO
 Ryan Snyder, CenterPoint
 Rylan Hanson, OTP
 Sahil Sharma, ICF
 Sam Wendt, MEC
 Samson Mabry, Entergy
 Sanjay Bhatia, Savion
 Sarah Gunasekera, Daymark EA
 Sawyer McClure, WPSCI
 Scott Deffenderfer, Ameren
 Scott Hoberg, MN Power
 Scott Jones, IN OUCC

Sean Brady, Not Provided
 Sebastian Smater, Strom Power
 Shelby Leisz, AES
 Simon Mahan, SREA
 Soma Soko, New Leaf Energy
 Srijan Karim, MEC
 Stacey Svendsen, SREA
 Stacie Hebert, OTP
 Stephanie Neitzel, ATC
 Steve Davies, IURC
 Steve Leovy, WPPI
 Subhadarshi Sarkar, NextEra
 Susan Rossi, Xcel
 Taiwo Oke, DTE
 Tao Xia, Exelon
 Taylor Costes, IURC
 Taylor E Lucke, Duke
 Terri, Entergy
 Thomas Chamberlain, Entergy
 Thomas Roberts, Hoosier Energy
 Thomas Sarver, Entergy
 Thompson Adu, Engie NA
 Tia Elliott, Pelican Power
 Tim Ellis, Clenera
 TJ Cochran, Ameren
 Tom Butz, MN Power
 Toshana Barthel, GRE
 Travis Stewart, Gabel
 Trey Mayeux, Cleco
 Tricia DeBleekere, OMS
 Tuan Truong, Duke
 Tyler Bergman, CGA
 Tyler Berton, GDS
 Tyler Jorgenson, OTP
 Tzu-Yuan Su, DPC
 Vince Vandaveer, Ameren
 Vishnu Reddy, EDFR
 Wendy Reed, Wright & Talisman
 Werner Roth, TX PUC
 Will Koebel, PSCW
 Yamit Lavi, NRDC
 Yvonne Cappel-Vickery, All 4 Energy
 Zach Fjestad, OTP
 Zach Starkey, CenterPoint
 Zach Wright, WVPA
 Zachary Callen, ICC

b. Review Agenda

The agenda was accepted as posted.

c. Review Meeting Minutes, Action Items

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* Verbal Report



Minutes from the November 19, 2025, meeting were accepted as posted. Action items from the previous meeting are closed.

d. Annual Charter and Management Plan Review[√]

The 2026 PAC Charter and Management Plan were reviewed. There were no questions. The items were adopted by consent.

Stakeholders requested more forward-looking information to be put on the management plans. MISO agreed to look to assign issues to future months on future management plans, to the best of its ability.

2. Status Updates ↻ (Cynthia Crane)

a. Interconnection Process Working Group (IPWG)

b. Planning Subcommittee (PSC)

c. Steering Committee (SC)

Written status reports were provided with the meeting materials. There were no questions.

3. MISO Posted Items ↻ (Jeanna Furnish)

a. Commencement of Variance Analysis on LRTP Project 3

MISO explained the new process for notifying the PAC of projects going through the Variance Analysis process, which was agreed to as part of the enhancements to the MVP project status reporting and Variance Analysis process discussed in 2025 at the RECBWG. MISO asked if stakeholders had questions on the posted notice that Great River Energy (GRE) and Minnesota Power (MP) reported a cost increase for the Iron Range – Benton County – Big Oaks Project (also known as “Project 3” from LRTP Tranche 1) that triggered the 25% cost increase threshold to start the Variance Analysis process.

MISO responded to numerous stakeholder questions on the timing of when constructing TOs provide updated project cost information to MISO, broader trends MISO is discerning on project costs, and timing of posting updated MVP dashboards.

MISO committed to working through the Variance Analysis process as quickly as possible, including timely communication to PAC.

4. Liaison Report (Jeanna Furnish)

Jeanna provided highlights of her written liaison report, including:

- Interregional Planning Update:
 - MISO-PJM Interregional Transfer Capability Study work planned for 2026 including Annual Issues Review and coordination with PJM Transmission Owners for LRTP Tranche 2.1. Next meeting is March 13, 2026.
 - MISO-SPP Coordinated System Plan (CSP) Study and 2026 Annual issues Review. Next meeting is March 6, 2026.
- Generator Interconnection (GI) Service Workbook timeline update. MISO confirmed later in discussion that the workbook will be posted to the same or similar location it is now on the GI page of the MISO website.
- MISO compliance filing in Docket No. EL22-83 to revise Attachment FF to specify when and how Merchant High Voltage Direct Current (MHVDC) transmission projects are incorporated into MISO’s transmission planning processes. Following FERC’s response, BPM updates will be made accordingly.
- Attachment GGG Improvements (PAC-2024-6): No new feedback received, no major changes have been made to the proposed newly created MHVDC BPM process.
- Announcements and Workshops:
 - Feedback on MISO Public Meeting Recording/Transcription due January 30, 2026.
 - January 22: Competitive Project RFP Informational Workshop (MARS, EASL)
 - January 29, February 26: Futures Redesign Workshops
 - January 30: Large Load Workshop
 - February 3: Expedited Project Review Technical Study Task Force (EPR-TSTF)

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- February 10-11: Subregional Planning Meetings (SPM)
- February 24: Regional Expansion Criteria and Benefits Working Group
- Note refreshed stakeholder process training modules in the MISO Learning Center

In responding to an earlier stakeholder question, MISO confirmed that LRTP lines are included in Definitive Planning Phase (DPP) studies. However, the lines may not be in the 5-year out MTEP base case models due to in service dates.

5. Order 1920/1920-A Update (Edin Habibovic)

Edin provided an update on MISO efforts under FERC Order 1920, and discussed feedback received. A redlined version of Tariff changes required for compliance with FERC Order 1920/1920A will be made available for stakeholder review in late January or February, and MISO welcomes informal feedback on the proposed revisions to Attachment FF.

MISO's proposed Order 1920 voluntary funding process is consistent with its portfolio-based Order 1920 MVP ex-ante cost allocation method. If the MVP portfolio benefit-to-cost (B/C) ratio is greater than 1, then MVP ex-ante or alternative state agreement cost allocation will apply, as applicable. If the MVP portfolio b/c ratio is less than 1, RSEs or ICs could voluntarily fund a portion of the portfolio costs, reducing the portion of costs that are regionally cost shared, and raising those regionally allocated costs to 1.0 B/C ratio. If an RSE or IC does not elect to utilize the voluntary funding process, entities with interest in funding one or more projects independently may still use MISO's existing processes, such as the Market Participant Funded Project or Other project types.

Stakeholders requested that MISO provide more detailed information on timelines, reporting methods, feasibility, confidentiality, the evaluation framework for Alternative Transmission Technology (ATT), right-sizing, and network upgrades tied to withdrawn generator interconnection projects, as well as further discussions on benefits. MISO values and appreciates stakeholder input and will address evaluation of potential transmission solutions including screening and applicability of Grid-Enhancing Technologies (GETs), right-sizing, and network upgrades tied to withdrawn generator interconnection projects as well as detailed discussions on benefits, calculations, and application during Regional Process Documentation conversations (Business Practices Manual updates) over the two years following the June 2026 Tariff compliance deadline. MISO is currently on track for a June 2026 Order 1920 filing, with stakeholder discussions wrapping up in April.

6. Reports from IPWG and PSC

**a. Update from IPWG: Attachment GGG Improvements - (Simon Guo)
Proposal on Tariff Language Changes (PAC-2024-6)^**

Simon introduced a potential Tariff change proposal to Attachment GGG regarding the MHVDC Procedures BPM developed via IPWG and solicited feedback. The proposed Tariff language clarifies the existing MHVDC Interconnection process. Slide 3 provides a high-level summary of the Attachment GGG Tariff Changes Proposal, divided into three main groupings:

- a. Withdrawal right pathway clarified
- b. Study scope limited to what is requested (Rights+MW)
- c. Limited Operations Framework (if pursued/Tariff Contingent)

Simon walked through the feedback received at the IPWG and summarized MISO's response. He reviewed MISO's Tariff Changes Proposal and illustrated where the language would be inserted into the Tariff. The current plan is to address several related topics in stages by continuing discussions of additional topics through the IPWG in 2026. MISO stated it is anticipating making a filing for the changes in first half of 2026.

Stakeholders were encouraged to provide feedback on the proposed Attachment GGG Tariff changes, as well as noting if MISO has missed any new issues, by February 4, 2026.

7. New Issue: IC Queued Project: Owner Opt-in Visibility (PAC-2025-5)√ (Exus Renewables)

Mike Speerschneider presented this new issue on behalf of Exus Renewables. MISO was asked to evaluate offering an opt-in capability for Interconnection Customers (ICs) to request and view J# ownership information

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^ Feedback Requested

* Verbal Report



on specific queued J# projects. The stakeholder identified potential benefits of issue resolution as improved project viability, potential cost savings, and increased system efficiency. Potential roadblocks for the issue resolution include a risk of confidentiality related to proprietary data, and potential perceived favoritism. The recommended next steps were for the PAC to accept the issue and assign to the IPWG for further discussion. After stakeholder discussion on the next steps, a formal feedback request was opened to gauge the level of interest for this issue and whether it should be adopted. Feedback is due by February 4, 2026.

8. **Break**

9. **Market Participation and Registration of Co-Located Load and Generation (PAC-2024-4) (Marc Keyser)**

Marc presented on the Zero-Injection Generator Interconnection Agreement (ZGIA), which is an avenue that can be readily formalized to support large loads and discussed broadening this approach to provide further benefit. MISO is enabling timely and reliable large load integrations through existing processes and will further develop its framework in 2026, beginning with a stakeholder workshop to frame an approach. ZGIA allows for generation to connect to the grid, but without the ability to inject which is suitable for serving load at the same interconnection point. Marc explained the concept of ZGIA by showing two potential study paths for large load integration, each undergoing MTEP studies. Without ZGIA, an MTEP study of the load which doesn't account for the accompanying generation occurs, which results in a set of network upgrades not reflective of the presence of an accompanying generator. With ZGIA, an MTEP study of the load is conducted that accounts for the signed GIA, which results in a set of potentially reduced network upgrades, reflective of the presence of the accompanying generator. The MTEP study process does not change with the presence of a ZGIA; ZGIA resources are modeled the same as any other resource. Under ZGIA, the process studies the generation and the load, which potentially results in reduced network upgrades.

Slide 7 presented diagrams that demonstrated how ZGIA resources have a positive impact on the large load interconnection study across four different configurations, with network upgrades only being needed for a Load-Only contingency where nearby generation trips offline. Stakeholders provided comments clarifying challenges that should be addressed as MISO considers the benefits of ZGIAs. Stakeholders offered differing views on whether a ZGIA should be allowed to "span" across points of interconnection (POI). The importance of a contractual link between the generation and the load, indicating cost sharing and other responsibilities if one or the other does not materialize, was also emphasized in stakeholder comments. Marc concluded, stating this topic will return for further discussion at the February PAC.

The stakeholder discussion was lengthy and considered many questions about the specifics of the study process; concerns about the responsiveness of the load and/or generation when the other went off line; inadvertent use of the transmission system by the generation; implications for settlements and other market issues; coordination with other planning studies and processes; planning, operational, and reliability risks; and numerous other issues. MISO sees this framework being used to help meet the needs of large loads and is bringing this to stakeholders now to help formalize the process in BPM or Tariff language. Other clarifications were made by MISO, such as noting that the load and generation involved in a ZGIA would not be netted. That is, the load will be a firm NITS customer, with all accompanying benefits and obligations, including having its gross load included in monthly load submittals, and its gross load forecast included for forward planning and capacity purposes. MISO recognized the definition of "netting" can mean different things to different stakeholders and will explain how market and capacity participation will work during a future update. MISO is not currently looking to implement a size requirement to participate in ZGIA. MISO stated currently three projects have been approved through this process.

MISO will bring this issue back to the PAC in February and intends to seek feedback at that time.

10. **New Business (All)**

There was no new business.

11. **Review Action Items (Jake Carrico)**

Action Item	Owner	Date	Status
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^ Feedback Requested

* Verbal Report



Feedback request will be open for: <ul style="list-style-type: none">• Attachment GGG Improvements (PAC-2024-6) (February 4)• Feedback on level of interest from stakeholders on IC Queued J-Number Project Owner Opt-in Visibility PAC-2025-5 (February 4)	MISO	1/21/2026	Closed
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12. Adjourn

The meeting was adjourned at 2:15 PM ET/1:15 PM CT

Next Meeting: February 25, 2026