



Planning Advisory Committee (PAC)

January 24, 2024

Carmel, IN

10:00 am to 12:00 pm ET / 9:00 to 11:00 am 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: David Johnston

MISO Liaison: Jeanna Furnish

Stakeholder Relations: Amanda Jones

Affiliate: not present

Coordination: Michael Steiman

Eligible End Use Customers: Kavita Maini

Environmental: Sam Gomberg

IPP: not present

Muni/Coop/TDU: Steve Leovy

Power Marketers: not present

Public Consumers: John Wachtler

State Regulatory: Lise Trudeau (proxy for Joe Sullivan)

Transmission Developers: Brenda Prokop

Transmission Owners: Rob Wells

In Person Participants:

Adam Solomon, Steelhead

Andy Witmeier, MISO

Aneta Godbole, MISO

Anton Ptak, EDFR

Carolyn Wetterlin, Xcel

David Harlan, Veriquest

Eileen King, MISO

Ginger Hodge, CES

Jarred Miland, MISO

Jason Atwood, Yes Energy

Jeff Kelley, NIPSCO

Joe Sullivan, MN PUC

John Wachtler, MN DOC

Justin Stewart, Ameren

Lise Trudeau, MN PUC

Lucie Semone, Sol Systems

Mike Gard, MISO

Mike Schowalter, Fresh Energy

Ryan Westphal, MISO

Sandeep Tadepally, MISO

Shirley Schultz, AMP

Temujin Roach, EDFR

Warren Hess, CMPAS

Other Participants:

Aaron Demuth, OTP

Aaron Greenberg, Oriden

Aaron Shipley, SPP

Aaron Stoll, GridUnited

Abhishek Dinakar, Savion

Adam Renfandt, NDSG

Alan C, Triple Oak Power

Alan Urban, MISO

Alex Kloiber, CIPCO

Allie Koepplinger, MI PSC

Amanda Fong, MISO

Amanda Frazier, Treaty Oak

Clean Energy

Amanda Jones, MISO

Amanda Schiro, MISO

Amber Joyce, MDU

Andrew Berg, MRES

Andrew Burnes, NPM

Andrew Kienitz, MN Power

Andy Kowalczyk, SREA

Angela Maiko, GRE

Anita Collier, ACES

Ankit Pahwa,

Anthony Rotar,

Antonio Santos, EDF

Armando Figueroa-Acevedo,

MISO

Armin Karabegovic, CWLD

Art Iler, IN OUCC

Ashleigh Moore, MISO

Austin Behrmann, PG

Renewables

Austin Roth, R3 Renewables

Ben Stearney, ACES

Benjamin Scott, CMS

Bert Finzer, MISO

Beth Soholt, CleanGridAlliance

Bildon Francis, Avangrid

Bill Booth, Michael Best

Boone Staples, Tenaska

Brad Pope, OMS

Brad Wentz, Ameren



Brandin Stoesz, MHEM
Brandon D. Morris, MISO
Brandon Waldrup, Cooperative
Energy
Brenda Prokop, LS Power
Brent Taylor, MPPA
Brett Furuness, NIPSCO
Brian C Drumm, ITC
Brian Giggee, MDU
Brian Sullivan, Entergy
Bridget Sparks, AES
Brock Ondayko, AEPES
Brooke Nelson, MEC
Bruce Froyum, MISO
Bryan Estes,
Carl Field, HEPN
Carolyn Wetterlin , Xcel
Carrie Rowland, Scout Clean
Energy
Casey Sobecks, MISO
Chad Allen, MISO
Chad Craven, Savion
Chamberlain, Thomas, Entergy
Chandana Bommareddy, Inner
Gex
Chandler Medaugh, DTE
Charles Gibune, Origis
Charlotte Thomasson, MISO
Chase Ford, Nexamp
Chris Embry, MISO
Chris Mertz, Candela
Chris Miller, FERC
Chris Norton, AMP
Chris Stolz, PGR
Chris Thibodeaux, Cleco
Christine Ericson, ICC
Christopher Elie, Duke
Christopher Plante, WEC
Ciaran Gallagher, Clean
Wisconsin
Cicily McGee, AR PSC
Cindy Guillot, Cleco
Cleveland Richards Jr,
Cody Anderson, OTP
Cody Doll, Next Era
Connie Groh, Liskey PLLC
Conor McKenzie, GPI
Cooper Wade, MISO
Cory Samm, HEPN
Craig Wrisley, Xcel
Cy McNeill, Alliant
Daisy Ning, Matrix
Dan Alfred, CMS
Dana Cochran, MISO
Daniel Ferrell, Origis
Darren Kearney, SD PUC
Darrin Lahr, MISO
Daryl Hart, Valor
Dave Seelye, MISO
David Carlson, IGS
David Davis, Apex

David Kosturik, Nexamp
David Leventhal, AES
David M, CMPAS
David Mcrae, AECC
David Mindham, EDP
David Osterkamp, ITC
David Ricketts, Vistra
David Sapper, CES
David Savage, IN URC
David Ticknor, RES
David Zito, Gabel
Derek Mosolf,
Derek Sunderman, Savion
Diana Gastelum, GPI
Diane Janicki, BETM
Dirk Bierbaum, RPU
Divya Balakrishnan, Nexamp
Divya Boddu, ICF
Don Frerking, SPP
Drew Hagin, Azimuth
Renewables
Drew Siebenaler, Xcel
Dylan Stupca, OTP
Ed Achaab, AEP
Eden Starbuck, DTE
Edin Habibovic, MISO
Emily McClure, ICC
Emma Nix, Leeward
Eric Olson, MISO
Éric Souque, MB Hydro
Erik Hanser, MI PSC
Erik Winsand, ATC
Erin Murphy, Big Rivers
Erin Peddicord, MISO
Farah Neha, Advantage Cap
Felix Wang, Algonquin Power
Forrest Tingo, Light Source BP
Georges Charles,
Georges Charles, Origis
Gordy Pietsch, GRE
Greg Gudeman, Ameren
Greg Jekel, HEPN
Haley McEllyea, 1898 & Co.
Hannah Fikes, AES
Hardik Parikh, Origis
Heather Lockhart, Vistra
Heidi Lange, Next Era
Howard Wong, MISO
Humberto Branco, Savion
Hunter Blair, MISO
Hunter Yanke, PSCW
Ian Sharpe, Leeward
James O'Brien, ICC
Jane Laskowski-Hart, MISO
Jared Alholinna, GRE
Jared Rasbold, Cooperative
Energy
Jason Hastings, Vesper
Javier Martinez, PSCW
Jay Rasmussen, Duke
Jeff Dicharry, Entergy

Jeff Dodd, Amerren
Jeff Gindling, Duke
Jeff Haselhorst, MISO
Jeff Kelley, NIPSCO
Jeremi Wofford, Ameren
Jeremiah Doner, MISO
Jeremy Bennett, MISO
Jeremy Jones, Entergy
Jerry Terry, MISO
Jerry White, Cleco
Jessica Campbell, Pedal Steel
Solar
Jessica Chabot, New Leaf
Energy
Jim Kilgore, MISO
John Liskey, Liskey PLLC
John Thomasen, MGE
John Wolfram,
BREC,CWLP,HE,SIPC
John Wolfram, BREC-CWLP-
HE-SIPC
Jon Langford, Orsted
Jordan Johnson, Center Point
Jose Ruiz-Monroy, HEPN
Joseph Millard, Ameren
Joseph Reddoch, MISO
Josh Byrnes, IA IUB
Josh Grindeland, PGR
Julia Scott, MISO
Justin McNeil, KYPSC
Justin Salinas, Enel
Kara Smerud, MN Power
Kari Valley, MISO
Karl Kohlrus, PPI
Katelyn Ross, DTE
Katherine, Algonquin Power
Kathryn Dial, Next Era
Katie Hulet, GRE
Kavita Maini, KM Energy
Consulting
Keith Berry,
Ken Foladare,
Ken Kagy, CFU
Kendall White, Next Era
Kevin Crotty, In Deck Energy
Kevin Hou, Burns & McDonnell
Kevin Kingsley, MDU
Khamsune Vongkhamchanh,
Entergy
Kimberly Dunning, Center
Point
Kiran Thammineni, Ameren
Koz, Alphataraxia
Kristen Staples, AECC
Kristina Grandquist, MEC
Kristopher Barringer, MISO
Kurt Vanderlick, Cleco
Kyle Johnson, MISO
Kyle Trotter, MISO
Kyle Watson, Entergy
Laura Witzling, PSCW



Lauren Azar, Azar Law
Lauren Godfrey, MISO
Lauren Strager, ITC
Lei Tang, Next Era
Leighton Good, MPR
Liang Qi, MISO
Lily Henning, R3 Renewables
Lily Maloney, Long Road
Energy
Lisa Barrett, Advanced Energy
United
Lisa Silverwulf, HDR
Lise Trudeau, MN PUC
Lopa Parikh, Orted
Luke Kinder, AR PSC
Lynn Walker, MISO
Madeleine Balchan, Xcel
Mandi McGirr, MISO
Marcus Hawkins, OMS
Margaret Kristian, NGR
Mariel Schoneman, MISO
Mark Zelensky, PPL
Massamba Samb, Bright Night
Power
Matt Bogdan, ITC
Matt Tackett, MISO
Matt Waldron, ATC
Max Meyer, MISO
Michael Carrigan, ICC
Michael Gard, MISO
Michael Hibshman, Hexagon
Energy
Michael Russ, Strata Clean
Energy
Michael Saer, GRE
Michael Steiman, MN Hydro
Michaela Flagg, CES
Mickey Headds, MISO
Mike Dantzler, Ranger Power
Mike Dicks, HEPN
Mike Fischette, LBWL
Mike Johnson, Oriden
Mike Koehler, Azimuth
Renewables
Mike Mooney, HEPN
Mike Schowalter, Fresh Energy
Miles Larson, LSBP
Milica Geissler, MISO
Mitchell Myhre, Alliant
Nan Duan, MISO
Nestor Martinez, MISO
Nick Puga, Bates White
Nick Schwager, Elecnor
Nicolas Kumm, Marshfield
Utilities

Nihal Mohan, Next Era
Nina Zheng, RWEA
Nitin Kushwaha, NGR
Olivia Harby, Galehead
Pablo Ovando,
Patrick Collie, Algonquin Power
Patrick Kelly, K2Renew
Pavan Sajja, Linea Energy
Peg Abbadini, HE
Peter Schuster, MEC
Peter Sparhawk, WSP
Phillip Miller, Cleco
Presley Reed, Dentons
Preston Hart, OTP
Quinn Beckham, Key Capture
Energy
R. DeWayne Todd, Alcoa
Rachel Passman, Gabel
Raj Pudhota, TED
Randall Oye, Xcel
Ray McCausland, Ameren
Rebecca Moore Darrah, WVPA
Regan Fink, PGR
Rena Steichen,
RevRenewables
Rhonda Peters, Intertranec
Richard Bendish, MDU
Rob Wells, ITC
Robel Arega, Plus Power
Robert Fox, NIPSCO
Robert Frank, NDSG
Robert Lamoureux, MISO
Robert Vosberg, LPSC Staff
Consultant
Roberto Paliza, Paliza
Consulting
Ron Carrier, Big Lake
Consulting
Ronghai Wang, MISO
Ross Nadel, Matrix
Ruth Kloecker, ITC
Ryan Frederic, MS PSC
Ryan Wernette, WPSCI
Rylan Hanson, OTP
Sam Bustillos, EPE Consulting
Sam Gomberg, UCS USA
Samantha Schall, AES
Sarah Mangnus, MISO
Sarah Nieman, MISO
Sarvesh Gadre, Arevon
Scott Deffenderfer, Ameren
Scott Goodwin, MISO
Scott Hoberg, MN Power
Sean Chang, Shell
Sean Rogers, MISO

Shilpa Toppo, 174 Power
Global
Shirsha Nandy, Hectate
Energy
Simon Mahan, SREA
Sky Goliber, Galehead
Sonny Nguyen, Vesper
Soyoung Park,
Srijan Karim, MEC
Stacie Hebert, OTP
Steve Dowll, Alcoa
Steve Leovy, WPPI
Steve Porter, DPC
Steven Huynh, MISO
Subhadarshi Sarkar, Next Era
Susan Rossi, Xcel
Sydney Yeadon, MISO
Taiyo, Pathway Power
Terry Jarrett, MJMEUC
Terry Volkmann, GLP
Thomas McNailen, CC Renew
Tiara Dorsette, Leyline Capital
TJ Cochran, Ameren
Tom Siegrist, SMXB Law
Tommy Roberts, HEPN
Trevor Armstrong, MISO
Trey Mayeux, Cleco
Tricia DeBleeckere, MISO
Tuan Truong, Duke
Tung Nguyen, Next Era
Venkata Bujimalla, IA IUB
Victoria Jones, MISO
Vince Vandaveer, Ameren
Walter Ferguson, MISO
Warren Hess, CMP
Warren Whitson, Viridon
Weiqing Jiang, Jupiter Power
Wendy Anderson, MN Power
Wendy Reed, Wright &
Talisman
Werner Roth, PUCT
Whit Cox, SREA
William Buchanan, Next Era
William LaVista,
Yonas Demissie, MISO
Yvonne Cappel-Vickery, All 4
Energy
Zach Farrar, Great Bay
Renewables
Zach Fjestad, OTP
Zach Van Ness, Matrix
Zachary Starkey, Center Point
Zack Bearden, MISO
Zelalem Tekle,
RevRenewables

b. Review Agenda
Agenda accepted as posted.

c. Review Meeting Minutes, Action Items

➡ Post Only Item

✓ Potential Voting Item

^ Feedback Requested

* Verbal Report

Public



Minutes for the November 2023 meeting were accepted as posted. All action items from the last meeting were closed.

Action Item	Owner	Date	Status
MISO will open feedback request for: <ul style="list-style-type: none"> Draft BPM-012 and 013 edits related to TSRs for Charging ESRs (Comments due December 8) (PAC-2023-2) JTIQ new direction summarized on slide 7 (Comments due December 6) 	MISO	11/15/2023	Closed
Action Item: PAC leadership will communicate the assignment of new Issue PAC-2023-4 to IPWG leadership for placement on their management plan. Note: IPWG has that penciled in for Jan, March and May in the management plan that will post on Friday!	MISO	11/15/2023	Closed
Action Item: MISO will confirm if the Q1 discussion of hybrid resource participation model (issue MSC-2020-2) in MSC includes co-located resources; see notes on this topic above.	MISO	11/15/2023	Closed

d. Review 2024 Charter and Management Plan ✓

Both documents were provided with meeting materials for annual review. No changes were proposed to the charter. Updates to the redline were shown in redline. Both were accepted and will be forwarded to the Steering Committee (SC).

2. Status Updates ➡ (Cynthia Crane)

- Interconnection Process Working Group (IPWG)** Next meeting: January 30
- Planning Subcommittee (PSC)** Next meeting: January 31
- Steering Committee (SC)** A written status report was provided with meeting materials. Next meeting: February 6

3. Liaison Report (Jeanna Furnish)

- TSRs for Charging ESRs BPM Updates (PAC-2023-2)
- Interregional Coordination annual issues review processes with PJM and SPP
- Announcements and Workshops
 - New PSC Liaison: Victoria Jones
 - Add Order 2023 workshop date
 - LRTP Workshops January 26, March 15
 - EDC Workshop Feb 27
 - Annual ARR Workshop March 4
 - RECBWG next meeting March 5
 - BOD/AC Week March 21

4. MISO Posted Items ➡ (Jeanna Furnish)

a. Expedited Project Review (EPR) Requests

Jonesboro CWL: Commerce to Ringier 69 kV line rebuild project; MDU: Ellendale Load 2 Addition
A written update was provided with meeting materials.

5. Issue Submission: EPR Improvements (Amanda Schiro)

New issue proposed for placement with PSC

MISO proposed a new issue for placement with the PSC to address the volume and complexity of the Expedited Project Review (EPR) process. MISO seeks to improve the process timeframes to increase certainty of the workload. Amanda talked about potential solutions for the PSC to consider, such as

➡ Post Only Item

✓ Potential Voting Item

^ Feedback Requested

* Verbal Report



reducing Technical Study Task Force (TSTF) meetings to review individual EPR submittals. Several participants asked questions about the study process and made suggestions to expand the scope of the issue to look at drivers for EPR projects to come forward, such as load growth changes, but that is out of scope at this time. There were a couple of technical study process recommendations that were referred to the PSC for further consideration.

The PAC sector reps agreed to adopt this issue and place it with the PSC. An initial presentation will be scheduled for March with progress to occur through Q2 and Q3. Any draft BPM or Tariff language will be drafted and brought forward to the PAC later in 2024.

6. Reports from IPWG and PSC

a. n/a

7. Queue Reform / Order 2023 Update* (Aneta Godbole)

MISO provided a verbal update on the recent FERC Queue Reform Orders: (1) to increase GIP milestone payments, introduce automatic withdrawal penalties, revise certain withdrawal penalty provisions, and improve Site Control rules for Interconnection Facilities (ER24-340) and (2) a limit on the total amount of MWs that will be studied in a particular cycle for each queue study region (ER24-341) (the cap filing).

MISO fielded numerous questions about the timing of the upcoming queue cycles, the applicability of these approved reforms, the timing of the Order 2023 compliance filing (April 3rd) and implications of that on future queue cycles, and whether MISO intends to re-file a version of the cap. MISO noted the approved reforms will apply to the 2023 queue which they expect to open the end of March. A timeline will be provided at the IPWG and workshops to help generators understand the requirements will be scheduled. MISO will schedule a stakeholder workshop to work through details of the queue submission and send notification to the IPWG listserv.

In addition, Aneta noted that MISO currently intends to process two queue cycles in 2024. No LRTP or JTIQ projects will be included in studies until they're approved. The 2023 cycle will open around the end of March 2024: close date TBD. MISO will attempt to select an effective date for Order 2023 compliance that falls between queue cycles for clarity.

Aneta and Andy Witmeier discussed the cap filing that proposed to limit the total number of MW entering in each queue cycles and was rejected by FERC. MISO appreciates the guidance from FERC in the rejection and will consider refiling later in 2024. Stakeholders will be updated later this year.

Finally, the compliance filing with Order 2023 was discussed. The Order was issued in July 2023 and MISO is working through the requirements, which mostly implements processes already in the Tariff. MISO awaits a response from FERC on the rehearing requests. Later this year, MISO will bring forward a plan to collect and distribute penalties for stakeholder discussion.

8. Transmission Planning and Other Study Updates

a. JTIQ Status Update (Sandeep Tadepally)

Sandeep provided an update on the JTIQ subscription proposal to determine when enough generation has signed up to fund the JTIQ portfolio. He walked through three rate examples to illustrate the periods of under, full, and over subscription, and discussed the last cluster rules used to ensure adequate generation contribution. He answered numerous clarifying questions. MISO noted both RTOs need to confirm this approach and develop JOA and Tariff language. Further cost allocation information will be presented to the RECBWG in March and MISO will update the PAC going forward.

Stakeholder were interested in how supplemental affected system studies might be conducted. MISO responded that the supplemental study will be done in similar manner as the current Affected system study done by the AFS partner. Later in the discussion, MISO noted that a second JTIQ might be on the horizon but depends on numerous factors and further stakeholder discussion.



9. New Business
No new business

10. Review Action Items (Amanda Jones)

Action Item	Owner	Date	Status
Notify PSC of its new issue assignment, EPR process improvement; scheduled for March PSC meeting	PAC Leadership	1/24/2024	Closed
PAC charter and management plan will be forwarded to the SC for annual review	PAC Leadership	1/24/2024	Closed

11. Adjourn
Meeting adjourned at 12:25 pm ET.

Next Meeting: March 6, 2024