



Loss of Load Expectation Working Group (LOLEWG) Conference Call and WebEx

June 29, 2023

1:00 to 2:30 pm ET / 12:00 to 1:30 pm CT

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

Minutes

1. Administrative Items (Werner Roth)

a. Call to Order / Roll Call

Meeting called to order at 1:00 pm ET.
The Public Meeting Notice was issued.

Chair: Werner Roth

Vice Chair: Levi McNeely

MISO Liaison: Kyle Abell

Stakeholder Relations: Amanda Jones

Participants:

| | | |
|--------------------------------|--------------------------------|-----------------------------------|
| Abdelraouf Ismail, Entergy | David Kapostasy, MISO | Kristina Grandquist, MEC |
| Abigail Reid, WPPI | David Sapper, CES | Kurt Vanderlic, Cleco |
| Adam Renfandt, NDSG | David Webb, Entergy | Kyle Abell, MISO |
| Alan Neal, Cooperative Energy | Dean Lee, OTP | Levi McNeely, WVPA |
| Alex Pusch, SCE | Dennis Kimm, MEC | Li Zhao, SCE |
| Alex Zakem, | Derek Mosolf, MISO | Lise Trudeau, MN PUC |
| Amber Joyce, MDU | Durgesh Manjure, MISO | Marcus Hawkins, OMS |
| Andy Dytuco, Ameren | Dylan Stockert, MDU | Mark Volpe, COMPP |
| Armando Figueroa-Acevedo, MISO | Elspeth McGarvey, MISO | Mary Morrison, Xcel |
| Art Iler, IN OUCC | Eric Rodriguez, MISO | Matthew King, GDS |
| Bakhtawar Khan, Gabel | Éric Souque, MB Hydro | Michaela Flagg, CES |
| Ben Arney, DTE | Eric Thoms, Invenergy | Michelle Lynch, Hoosier Energy |
| Ben Matthews, Duke | Erin Murphy, Big Rivers | Michelle Quinn, MISO |
| Bill Booth, Michael Best | George OConnor, Brunini | Mike Gahimer, Arevon |
| Bill Peters, MISO | Ginger Hodge, CES | Mitchell Myhre, Alliant |
| Bill Raihala, Xcel | Jamie Nicolls, Alliant | Natalie McIntire, CGA |
| Bipin Balar, NIPSCO | Jason Goar, Cooperative Energy | Neil Hammer, MEC |
| Bob Lalonde, MPPA | Jason Mazigian, BEPC | Nickolas Przybilla, MISO |
| Brad Pope, OMS | Javier Martinez, PSCW | Noel Darce, Stone Pigman |
| Brad Ridout, CIPCO | Jeremi Wofford, Ameren | Pengwei Du, ERCOT |
| Brian Giggee, MDU | Jeremy Barlow, MPUS | Presley Reed, Dentons |
| Brock Ondayko, AEP | John Bott, IMPA | Preston Riewer, OTP |
| C Jackson, MISO | John DiBasilio, MISO | Raju Brahmabhabheri, ITC |
| Carrie Milton, Potomac | John Thomasen, MGE | Ray McCausland, Ameren |
| Casey Harding, MEC | John Wachtler, MN PUC | Renee Colbert, DPC |
| Chris Brown, PUCT | Joshua Schabla, MISO | Robert Vosberg, LPSC Staff |
| Chris Norton, AMP | Jude Lindholm, AECC | Consultant |
| Chris Plante, WEC | Kari Hassler, Xcel | Roberto Paliza, Paliza Consulting |
| Cindy Guillot, Cleco | Karina Kloth, Alliant | Ron Franz, DPC |
| Dan Sprinkle, LGE KU | Karolanne Foley, DPC | Ryan Frederic, MS PSC |
| Daniel Jagessar, Entergy | Keith Parrott, MPPA | Sam Kokkinen, GRE |
| Dave Evenson, GRE | Kevin Cline, MEC | Savannah Miller, MISO |
| David Davis, Apex | Kimberly Dunning, CenterPoint | Scott Bents, IA OCA |
| David Harlan, Veriquest | Kristin Eidem, MEC | Scott Deffenderfer, Ameren |



Shirley Schultz, AMP
Sophia Dossin, Invenergy
Srijan Karim, MEC
Srilekha Dokala, Entergy
Steve Leovy, WPPI
Taylor Martin, Potomac
Terry Jarrett, MJMEUC
Thomas Chamberlain,
Entergy

Thomas Swift, IMPA
Tia Elliott, Cleco
Tom King, WPSCI
Tom Siegrist, SMXB Law
Travis Stewart, Gabel
Associates
Trey Mayeux, Cleco
Venkata Bujimalla, IA IUB
Vince Vandaveer, Ameren

Walter Ferguson, MISO
Werner Roth, PUCT
Wil Holm, MISO
Winnie Nguyen, MISO
Wyatt Ellertson, Entergy
Yulin Liang, Cooperative
Energy

b. Review Agenda

Agenda accepted as posted.

c. Review Meeting Minutes / Action Items

Minutes for the last meeting were accepted as posted. One action item remains open but will be addressed in part with discussion from this meeting. If there is continued interest in data transparency, the stakeholder is encouraged to reach out to LOLEWG leadership.

| Action Item | Owner | Date | Status |
|---|-------------------|-----------|--------|
| MISO will post 30-year wind/solar profiles to the Sharefile location and notify the LOLEWG once available | MISO | 10/3/2022 | Open |
| 2023 charter and management plan will be shared with the RASC for its annual review and approval | LOLEWG Leadership | 3/16/2023 | Closed |
| LOLEWG leadership will explore enhanced data availability (with coordination from the RASC leadership) | LOLEWG Leadership | 3/16/2023 | Open |
| Repost 101 presentation with correction to slide 6 | MISO | 3/16/2023 | Closed |

d. Review Management Plan

One update was made to the management plan and included in redline; there were no questions nor suggested edits.

2. Liaison Report (Kyle Abell)

Kyle provided highlights of his written report on the topics of:

- PY2024-2025 LOLE Study Schedule
- PY2024-2025 LOLE Model Data Posted

A stakeholder asked if MISO could provide a comparison of changes from last year's study to this year's study. Kyle indicated that some was shared in March and is contained in the appendix for the Item 03 presentation for this meeting (slide 33). Seasonal inputs from last year are largely unchanged, though a number of changes were made last year to support the seasonal modeling effort. There are no large changes to SERVM modeling this year, but MISO does anticipate using a new version of SERVM that will be benchmarked against last year's model data. That detail will be included in the final LOLE study report later this year as well. Eric Rodriguez confirmed some specifics from the modeling. Finally, MISO was asked to consider running sensitivities comparing modeling changes made for this year if feasible.

3. LOLE Model Data Summary (Eric Rodriguez)

Eric reviewed LOLE modeling data for the 2024-2025 Planning Year. LOLE modeling input data is preliminary and subject to change based on stakeholder review in the June meeting. Several seasonal LOLE modeling enhancements were implemented in the prior year study, including seasonal outage rates, correlated extreme cold weather outages, hourly wind/solar profiles, and probabilistic distribution of non-firm support. MISO will begin performing the Planning Reserve



Margin (PRM) and Local Reliability Requirement (LRR) analyses in July and will come back to stakeholders with preliminary study results in September.

As Eric walked through the monitored areas in detail, he answered clarifying questions. A correction was noted to slide 11, which should read "0.05 percentage point *increase* - not *decrease*". There were questions answered about the input sources and capacity summary tables from slides 15 and 16; he answered questions about outage modeling and noted MISO's openness to considering process improvements going forward. Next, he delved into GADS data, class averages, and a data summary. From the data summary table on slide 18, MISO was asked to repost the table with steam-coal units grouped up for public reporting (the redacted area). A stakeholder noted the need to continue understanding battery assumptions and reporting.

4. CIL CEL Model and Input File Overview (John DiBasilio)

John provided a summary of the 2024-2025 LOLE Capacity Import Limit (CIL)/Capacity Export Limit (CEL) analysis. He provided an overview of the CIL/CEL modeling, study assumptions, and input file summaries. CIL/CEL analysis is being conducted for Summer 2024, Fall 2024, Winter 2024-25, and Spring 2025. 800 MW were added back into the system due to suspensions ending or retirements being delayed to PY 2024-2025 compared to PY 2023-2024. Voltage modeling criteria is in the PSSE model and Voltage deviation criteria is located in the monitor file. There were no questions. The Hickory Creek line is in service for PY2024-2025 and there are additions to LRZs 2, 3, 4 and 5 Area Classifications.

5. New Business

No new business

6. Review Action Items (Amanda Jones)

| Action Item | Owner | Date | Status |
|---|-------|-----------|--------|
| MISO will post 30-year wind/solar profiles to the Sharefile location and notify the LOLEWG once available | MISO | 10/3/2022 | Open |
| Repost Item 03 presentation with corrections | MISO | 6/29/2023 | Open |

7. Adjournment

Meeting adjourned at 2:25 pm ET.

Next Meeting: September 6, 2023