

April 20: Resource Availability and Need whitepaper and Presentation - Kevin Vannoy (kvannoy@misoenergy.org) and Dustin Grethen (dgrethen@misoenergy.org)

References:

Whitepaper

<https://cdn.misoenergy.org/20180405%20RSC%20Item%2007%20RAN%20Issues%20Statement%20White%20Paper164746.pdf>

RSC Presentation

<https://cdn.misoenergy.org/20180405%20RSC%20Item%2007%20Resource%20Availability%20and%20Need164747.pdf>

The OMS Markets Work Group and the Resources Work Group (OMSWGs) provides comments to MISO's Reliability Subcommittee (RSC) (Kevin Vannoy and Dustin Grethen) on the following three questions:

I. Whether the paper and presentation frame the issues and warrant further discussion and development in the stakeholder process. Please explain.

- A. The OMS WG recommends MISO post any and all transmission and generation outages on OASIS as soon as it becomes known that such an outage is to occur. These transmission outages may have an impact when market participants take their planned or maintenance outages and may also create congestion since a MP may not be able to move all of its energy or respond to MISO's dispatch requests.
- B. THE OMSWG recommends that MISO pursue the seasonal forced outage rates. However, the question is what is defined as "seasonal"? Is MISO considering four seasons? Two seasons or twelve months?
- C. MISO should continue working on the RASC issue of how to treat planned and maintenance outages, if any incentives should be granted and how would they be derived. Further discussion on possibly looking at zone planned and maintenance outages for both transmission and generation and having all the MPs and TOs working together on these outages throughout the planning year.

II. A ranking of the industry trends identified in order of priority and/or urgency with support or context to the relative ratings

- a. **Ageing and retirement of the portfolio's generating units**
 - b. **Outage correlation**
 - c. **Growth in demand side and other emergency-only capacity as a percent of the overall portfolio**
 - d. **Growing reliance on intermittent or unscheduled resources**
 - e. **Growth of variable energy resources as a major element of the fleet**
- A. The OMSWG agrees that the current risk profiles of the mentioned choices are not well reflected in the current MISO LOLE study. It is very important that the LOLE study properly reflect the right risk profiles.
 - B. The OMSWG recommends that MISO should just focus on the first three items (a, b, and c) in the next two years.

Identification of links or dependencies between two or more of the trends that might exacerbate impacts on operations and the ability to convert committed capacity to real-time need.

Since emergency-only resources (LMRs) are now being used to fill-out the PRM in the PRA it is time to include that development when considering (a), (c) and (d) above.