



# Hybrid Accreditation

Resource Adequacy Subcommittee

RASC010

June 09, 2021

Updates to Slide 4:

- Clarified second application of availability
- Changes “credit rating” to “accreditation”

# Purpose & Key Takeaways



## Purpose:

Revisit refined tariff language and updated accreditation proposal for BPM incorporation

## Key Takeaways:

- Feedback largely supportive of draft tariff and two-phased approach
  - Suggested tariff edits incorporated improving cleanliness
  - Use of availability in phase 2 now more fully detailed
- BPM edits developed over next couple RASCs
- Tariff filing timeline: June RASC, last edits before final language; July RASC present final; file in July
- Soliciting near-final tariff and initial BPM feedback

# Two-phased approach updated per feedback and last RASC discussion

- Phase I – Sum of parts at default values up to firm IS
  - Either NRIS or ERIS with firm transmission service
- Phase II – Availability-based on hourly hybrid forecasts or offers for the top 8 daily peak hours per relevant season

# Hybrid availability depends on registration type

- If registered as Dispatchable Intermittent Resource
  - Availability based on forecast hybrid operator provides to MISO
- If registered as **anything other than DIR**
  - Availability based on offers
- In both cases, if available and called upon but fails to perform, non-performance to be reflected in **accreditation**

# Tariff Module A and E-1 Additions

- **“Hybrid Resource:** A Generator that combines more than one type of Electric Facility for the production and/or storage for later injection of electricity.”
- **Unforced capacity of capacity resources added for Hybrids**
  - “g. The Unforced Capacity for a Capacity Resource that is a Hybrid Resource will be established by the Transmission Provider based on the sum of the unforced capacity values of its respective resource types, up to the level of firm interconnection service, prior to a minimum amount of operating data becoming available. Once sufficient operation data is available, as defined in the BPM, the Unforced Capacity for a Hybrid Resource will be determined by the Transmission Provider based on historical performance, availability, and type and volume of interconnection service, in accordance with the BPM for Resource Adequacy.”

# BPM-11 concepts detailed in supplemental materials

- Defining availability by registration type
  - Factoring in performance when dispatched, like current practices
- Defining which hours to use aligning with wind today
  - Will align with current wind hours and shift to same seasonal hours as other resources when those changes are determined
- Lay out specifics of Phase I and Phase II approach defined in proposed tariff
- Define hybrid treatment in the surplus queue; surplus unit to enter as Phase I while existing facility would be Phase II
  - Whole unit treated as Phase II once sufficient operating data exists

# Finalize tariff language and draft BPM changes

## June RASC

- Refinements and draft filing language

## July RASC

- Updated tariff language and highlight needed BPM changes

## July

- Finalize and file tariff changes, continue BPM updates

# Stakeholder Feedback Request

- MISO is requesting feedback on the BPM language proposed posted with this presentation and the surplus interconnection question on whether surplus unit enters as Phase I or II
- Issue Tracking ID#: *RASC010*
- Please provide feedback by: ***Wednesday, June 23, 2021***
- Feedback requests and responses are managed through the Feedback Tool on the MISO website:  
<https://www.misoenergy.org/stakeholder-engagement/stakeholder-feedback/>



# Additional Hybrid Details

- Accreditation Questions?
  - Contact Stuart Hansen - [SHansen@misoenergy.org](mailto:SHansen@misoenergy.org)
- June 10 MSC - Hybrid Resource Market Participation Model
  - <https://www.misoenergy.org/events/market-subcommittee-msc---june-10-2021/>
- June 21 - Hybrid workshop on market participation
  - <https://www.misoenergy.org/events/hybrid-resources---market-participation---june-21-2021/>