

ESA provides comments on the following questions that the Markets Subcommittee seeks feedback on from its 9/10 [presentation](#) (Issue Tracking ID#: IR086)

- **Provide feedback and suggested edits on the proposed working definition of Hybrid Resources.**

ESA supports this definition with the one edit noted below that is underlined:

“A Generation Facility that has multiple energy production and/or storage devices that have more than one Fuel Source and participates in MISO Markets as a single asset with Interconnection Service that may be less than the total Generating Facility Capacity.”

- **What market enhancements or tweaks are necessary to better enable Hybrid Resources to participate in MISO markets?**

As discussed at the 9/10 Markets Subcommittee meeting, ESA generally supports using the existing market participation models for hybrid resources in the near-term. However, it would be valuable if MISO could share more information regarding the tradeoffs that need to be considered when choosing a particular participation model, to better inform discussions about a potential need to develop a stand-alone hybrid resource participation model. Such tradeoffs include non-performance rules and penalties, forecasting requirements, eligibility for various market products, opportunities to charge a storage component from the grid as well as co-located generation resources, and make whole payment eligibility. Regarding registration options, additional discussion regarding hybrid resources having the option to potentially choose multiple registration options or switch between options if resource configurations change, would be very useful.

- **What unique characteristics of Hybrid Resources are not recognized by the markets but should be?**

The main characteristic of hybrid resources that is not currently recognized by market rules, but needs to be, is flexibility in both grid operations and market parameterization—a direct result of being able to jointly optimize the component resources. Technology and software solutions for hybrid resources are currently available to meet the changing needs of the grid and customers, should market logic and rules be updated to capture that flexibility.