

The following items were added to ERPIV issue charge via Energy and Reserve Market Efficiency Issue Charge approved at the May MRC meeting

Key Work Activities

- 1. Provide education as it relates to the current rules regarding reserve products, targets and uses.
- 2. Provide education as it relates to the current rules regarding the existing reserve markets.
- 3. Provide education as it relates to actions taken by PJM operators to maintain reliability that are not captured in market clearing prices.
- 4. Determine whether enhancements can be made to the current market structure to improve
 - a. the alignment of operational reserve needs with market clearing prices, and,
 - b. the overall efficiency and transparency of the energy and reserve markets.
- 5. Determine whether enhancements can be made to improve the alignment of operational reserve needs with market clearing prices by implementing market(s) for additional product(s).
- 6. If enhancements are identified, implement the Consensus Based Issue Resolution process to assess the need for market rule changes.

Out of Scope Items

- 1. The use of a joint optimization as the method for determining market clearing prices.
- 2. The use of an operating reserve demand curve as the method for effectuating reserve shortages in market clearing prices.
- 3. Rules regarding the level of demand response capable of participating in the existing reserve markets.

Expected Deliverables

1. A set of enhancements that improves the overall efficiency of PJM's energy and reserve markets specifically including the alignment of operational reserve needs with market clearing prices.