



Electric Storage Resources and Offline Short-Term Reserve

MISO Roadmap ID: MSC-2018-6

Market Subcommittee

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Roadmap

Purpose & Key Takeaways

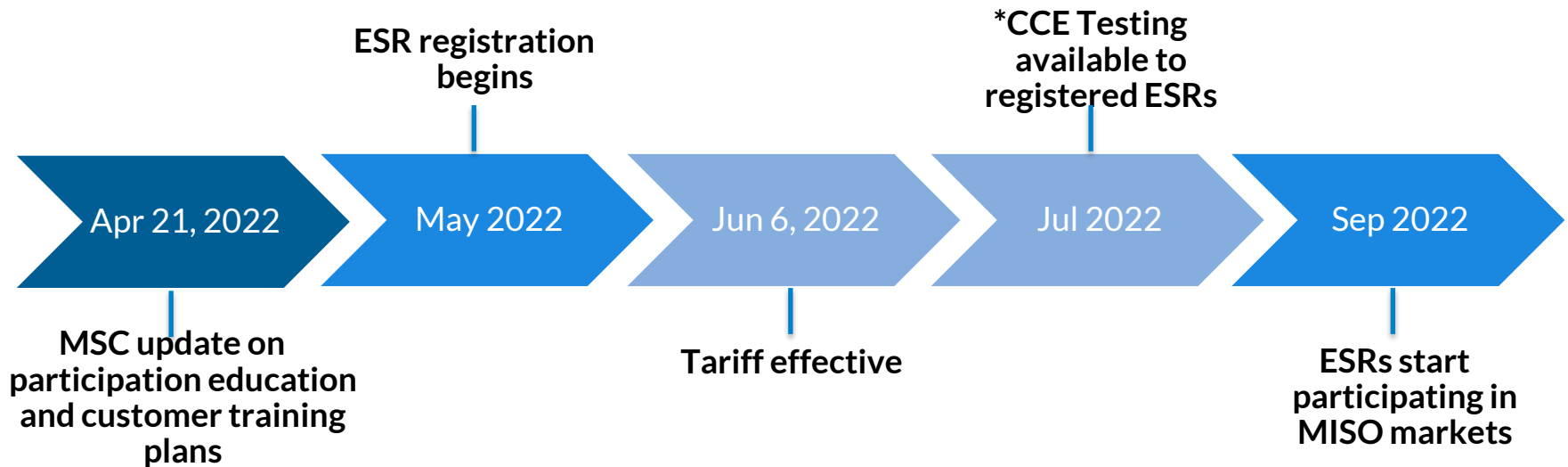


Purpose: Provide a brief Electric Storage Resource (ESR) project update and clarification that ESRs will not be eligible to provide offline Short-Term Reserve (STR)

Key Takeaways:

- The Electric Storage Resource (ESR) software build is in progress
- ESRs can clear and provide online Short-Term Reserve, but the ESR software design cannot deploy ESRs for offline Short-Term Reserve
 - MISO to clarify in the Tariff
- MISO expects ESRs to be online for the vast majority of intervals

Electric Storage Resource Project Timeline



Electric Storage Resources cannot be deployed for Offline Short-Term Reserve

- MISO ESR software will not facilitate deployment of offline Short-Term Reserve (STR) on ESR. Under the current design, offline STR is committed by operators under the Look Ahead Commitment (LAC) process
- ESRs are not considered for operator commitment in the LAC processes because ESRs are self-committed (except for Contingency Reserve deployment or Emergency declarations)
- ESR software can deploy ESR for offline Supplemental Reserves, which utilizes a different deployment process

At launch ESR will be able to clear and provide online STR, but not offline STR

- MISO cannot enable ESRs to provide offline STR for the initial ESR implementation
 - No potential resolution of the issue has been identified
- When online, these resources can clear and provide *online* STR
 - MISO expects ESRs to be online for the vast majority of intervals they are available to participate in the market

Tariff filing will clarify ESR online and offline Short-Term Reserve eligibility

- As a part of the Electric Storage Resource clean-up filing, MISO will clarify that ESRs are not qualified to provide offline Short-Term Reserve

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