

Synchronized Reserve Must Offer

EPFSTF

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Must Offer Requirement

- **A new design component should be added to the EPFSTF matrix: the must offer requirement and the obligations for various resource types.**
- **Currently, all generating capacity resources have an obligation to offer their full capability as available to provide synchronized reserve.**
- **PJM checks only that 90 percent is offered (M11).**
- **All resources should have an obligation to offer their full capability as available to provide synchronized reserve.**

Must Offer Requirement

- **PJM should enforce the synchronized reserve must offer requirement by ensuring that offers are available and that resources cannot reduce their offered MW without justification.**
 - **No daily opt out**
 - **No hourly opt out**
 - **Self scheduled units have a must offer requirement**
- **Must offer requirement should be 100 percent of capability.**
- **Penalties should apply for failure to meet must offer requirement**

Capability

- **An online generating unit's capability is the difference between the current dispatch point and the economic maximum output at the defined ramp rate for ten minutes.**
- **An offline unit capable of condensing has a capability equal to its economic maximum output.**
- **Demand resources and run of river hydro units need to submit their physical capabilities to PJM.**

Capability in PJM Systems

- **PJM will calculate the capability for online generating units capable of following the dispatch signal.**
- **All resources should have a defined and enforceable obligation to provide accurate ramp rates for all relevant points on the offer curve**
- **Resource types that can provide synchronized reserves, but cannot follow the dispatch signal, must submit their true physical capability to PJM.**
 - **DR**
 - **Hydro**

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