

Decision on aggregate capability constraints for co-located hybrid resources

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Board of Governors Meeting General Session July 15, 2021 The ISO developed and implemented new functionality to manage hybrid co-located resources

- Policy includes provisions to prevent "oversized" co-located generation from exceeding studied interconnection limits
 - The aggregate capability constraint functionality was implemented in Fall 2020
- Additional functionality will be in place to allow ancillary services in Fall 2021



Stakeholders requested the ISO develop subordinate aggregate capability constraints for co-located resources

- Developers are contracting with off-takers for fractional shares of resources <u>and</u> interconnection limits
- This is prevalent for large energy projects with solar and storage at the same location
- Responding to stakeholder requests, Management proposes new functionality to model contractual limits
 - Master aggregate capability constraint will model point of interconnection limits
 - Sub-aggregate capability constraint will model contractual limits



New provisions will allow dispatch of co-located resources with contractual limitations



When reliability is at risk, the ISO market can relax sub-aggregate capability constraints to schedule extra energy



Management proposes functionality to enable access to available energy under emergency scenarios

- The ISO market software will enforce fixed master aggregate capability constraints
 - The ISO has procedures to temporarily re-evaluate point of interconnection constraints in emergency scenarios and these may be re-evaluated using the same process
- The ISO market software can relax subordinated
 aggregate capability constraints for reliability concerns
 - When the market software cannot find sufficient supply to match demand, it may relax these modeled contractual limits



Management requests the Board approve the proposed enhancements to the co-located resource model

- Adding the sub-aggregate capability constraint to the co-located model will facilitate contracts for fractional shares of resources
- Proposal includes provisions to access available energy under emergency conditions to support reliable grid operations

