



Scope of “Resource Adequacy under High Deployment of Limited Resources” Paper

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June 22, 2020

- As the penetration level of intermittent and limited duration resources increases, there will be shifts in the hourly loss of load profile of the system
 - In fact, to capture that potential shift, PJM is moving to an hourly ELCC construct to calculate the capacity capability/value of such resources
- Currently, the standard Resource Adequacy studies (Reserve Requirement Study, Capacity Emergency Transfer Objective) are performed by focusing only on daily peak loads, not by examining every hour of a day.

- **Potential Changes to the Reserve Requirement Study (RRS)**
 - If the ELCC model can calculate hourly LOLP, should the RRS be based on the ELCC model?
 - Will an hourly RRS model impact the Forecast Pool Requirement (FPR) value?
- **Potential Changes to the Capacity Emergency Transfer Objective (CETO) calculation**
 - CETOs are critical to the Regional Transmission Expansion Plan (RTEP) and to RPM
 - Should the CETOs be calculated based on an hourly model to capture a potential higher need for imports into an LDA due to high penetration of intermittent and limited resources in that LDA? Could this trigger the need for transmission upgrades?
 - Are there potential implications for Transmission Planning studies?



Scope of Future of Resource Adequacy Paper

- Impact of current and future penetration levels of intermittent and limited duration resources on LDAs' load shapes