Demand Response Provider Views on LLA Proposals

DR Coalition Stage 4 CIFP Proposal

Executive Summary

- The scale of Large Load additions is likely to increase reserve shortages and dispatch of DR can create disincentives for continued Demand Response Participation.
 - Capacity clearing prices at a capped level limits the revenue opportunity
 - Energy compensation at levels less than hourly cost, combined with unlimited dispatch creates unhedgeable risk.
 - These circumstances may discourage continued DR participation.
- CSPs offer a package that is targeted a mitigating these concerns by
 - Encouraging dispatch of load without capacity backing before DR. This is partially achieved by dispatching PRD concurrently with DR.
 - Adding a limited (annual hours and duration) DR product Same as DCC/States/ Exelon
- DR should be a recognized BYOC option.
- Further addressing the disincentives noted above appears to be outside the scope of the CIFP. But follow up action is recommended.

Impacts of Short Reserves

- Large Load Additions create the prospect of increased DR dispatch with capped capacity prices. This can discourage DR participation.
 - Dispatch of DR will increase with decreased reserves indeed, this has already been observed.
 - DR participants expect that their hourly costs of curtailment will be less than the benefits of participation, i.e. capacity and energy payments.
 - For any customer whose energy payments are insufficient to cover hourly curtailment costs, DR participation represents an unhedgeable risk - a fixed payment for an openended obligation
 - Most customers are in this category.
 - When reserves are adequate the risk is low.
 - ◆ The much-increased likelihood of unhedgeable curtailment costs warrants consideration of potential remedies subsequent to this CIFP process.

NCBL loads are purchasing a lower quality of service

 Loads, including new Large Load Additions, that are not backed by capacity should be curtailed before Pre-Emergency and Emergency DR.

Other

- PRD obligations should be consistent with DR (but with supervisory control)
- New DR products should be considered for all providers
 - We are open to new DR products such as limited hours, limited duration and/or number of dispatch and understand that these may have separate and reduced ELCC values.
 - These do not warrant preferred (later) dispatch priority than other DR.
- DR should be an option for capacity backed resources (BYOCapacity)
 - We propose that BYO DR be captured as an offset to LLAs in the Load Forecast process. Applicable ELCC should be applied.

Package

The DR Coalition Package is largely "same as PJM"

Differences:

- Design Element 50 ELCC Class New class for Short duration resource
- Design Element 51 (DR Duration) Add a Limited total duration/dispatch length Emergency DR product
 - ◆ This would be dispatched concurrently with Emergency DR.
- Design Element 52 (PRD)- Same as PJM, except add clarity that manual dispatch of certain exceptions is required
- Design Element 4 We propose that BYO DR be captured as an offset to LLAs in the Load Forecast process. Applicable ELCC should be applied.

Recommendations

 Plan to investigate remedies to the unhedgeable risk posed by open ended dispatch combined with capped capacity prices.

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Background on Emergency Generators

The eligibility of Emergency Generators for Demand Response use is complex.

- Some states limit operation of Emergency Generators to Load Shed events, which precludes their use as DR.
- Some states permit use of Emergency Generators as Emergency Demand Response in NERC EEA2 conditions (before Load Shed). Eligibility can depend on age, size and permit conditions.
- New, large Emergency Generators (such as data centers would have) require robust emissions controls to meet environmental requirements.
 - Eligibility for PJM's PRD or Emergency DR programs will be dependent on state environmental permitting regulations, including whether the site's permit is for Emergency use.
 - Non-emergency operating permits may still limit operations.
- Backup generators that are not permitted to serve as DR would be operating only when their site is subject to a load shed.