

Elia TF Strategic Reserves 22/10/14

Independent Aggregator POV

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Strategic Reserves: objectives & proposed design changes

- Unlock full demand response potential, to address increased market needs for peak power in light of current market conditions:
 - Extend scope of eligible loads, such that DGO-connected GU can partake
 - Introduce delta-P product for demand
 - Set technical specs, incl. review of qualification procedure
 - Allow determination of activation volume using sub-metering
 - Same as R3 (no need to cover separately in SR)
 - Introduce new reference curve (instead of nomination) to allow DGO participation
 - Based on sub-metering data
 - Use a x of y reference curve, corrected with day of event data (prior to notification)
 - Simplify Elia certification of available capacity
 - No certification of capacity for the delta-P product (same as R3DP)
 - Simplified process for the existing shedding limit product

Topics

- New Delta-P product next to existing shedding limit product
 - Proposed Base-line solution
 - Proposed Metering solution
 - Proposed Pre-Qualification solution for DGO connected load

Base-line solution

- We suggest a relatively simple baseline that is based on the sub metering data (where this adds value)
- The baseline takes 8 of 10 of the last days weekdays if the event is on a weekday and 4 out of 6 of the last week-end days if the event is on a week-end
- The highest and lowest are discarded
- The resulting profile is then scaled based on the consumption in the 4 hours preceding the notification on the event day*
- The activated volume is the difference between the base-line and the actual consumption for the duration of the event (ramps are not included)
- The same method is used for TSO and DSO net users for the new delta-P product. The existing shedding limit product remains unchanged

* An uncapped symmetric additive adjustment (SAA method)

Sub-Metering solution

- it is a choice of the aggregator/net user and not an obligation
- Existing meters can be used if they meet the accuracy requirements
 - the requirements should be reasonable!
 - US use +/- 2%
- The sub-metering solution must be time & cost competitive
- When metering is done by the aggregator or consumer, he provides the data to the grid operators (Elia for TGO connected net-users and both the DGO & Elia for DGO connected net users)
- Audits on the full metering chain can be done by Elia at any time if they suspect issues
 - Cost of audit for Elia if metering is correct and for aggregator if errors are detected
 - Severe penalties in case of proven fraud

DGO Pre-qualification solution

- New proposal from Synergrid is already a step in the right direction: split between conformity test (mainly for gensets) and NFS (network safety impact)
- NFS remaining issues
 - On what bases can the access of a net user be restricted? Does the priority dispatch of renewable injection goes as far as to limit the access of other net users and **force them to consume at times?**
 - NFS limitations **if any** cannot be included in the FSP-DGO contract, they must be included in the connection contract
 - Very exceptional situations (the very unlikely situation where SDR happens at times of congestion due to low load, high local injection as commented by J. Gheury in the last expert WG) cannot be the reason to limit the access to SDR.
 - **Our suggestion is that the net-users are accepted and that the DGO and Elia setup a process to exclude some points of the dispatch when required (priority rules need to be defined by the regulator)**