

**Review of
P2: Security of Supply**

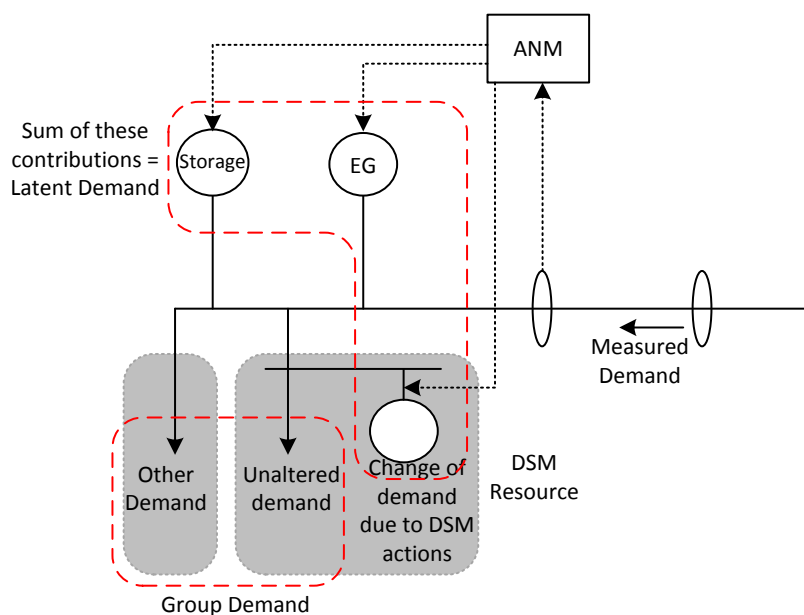
Update to the SQSS Review Panel

07.03.2018

Update on progress

The P2 Review Workgroup is currently proposing the following

- 1) At the first instant, modify the P2 to change the definition of demand such that it is the “latent” (gross) demand not the “measured” demand. This will, in effect, increase the size of demand groups by the contribution of embedded generation, embedded storage, demand side contracts, taking into account any restrictions imposed by active network management systems. In addition, all the tables specifying how embedded generation contribution is modelled will be moved to the ER130.
- 2) The draft P2/7 has been approved by the Distribution Code Review Panel and was published for an industry consultation (closed on the 12th of February 2018) . Details are available on the Distribution Code website
- 3) <http://www.dcode.org.uk/consultations/closed-consultations/>
- 4)



P2/7 will also allow DNOs to consider security contribution from embedded generation, Demand Side Management (DSM), storage, etc. while taking into account the effects of Active Network Management (ANM) schemes and any restrictions on that contribution due to common-mode failures. However, this contribution will be capped such that the loss of this contribution does not have an impact higher than the loss of any circuit that supplies the demand group.

- 5) This would be followed by
- a. a review of ER130 to revise how much different types of generation would contribute to demand security, and
 - b. another review of P2 to ensure that the level of security provided to demand groups is economic.

It is proposed that those two issues are addressed separately and in parallel.

Impact on the NETS SQSS

The NETS SQSS definition of the Group Demand refers back to the data submitted under the Grid Code in Week 24. However, further clarity on what constitutes this Group Demand is provided in Paragraph 3.5 which specifies that the Group Demand is the net Transmission System demand plus any contribution from embedded Large Power Stations.

In order to align the demand definition in P2/7 and the NETS SQSS,

- Paragraph 3.5 of the NETS SQSS needs to be modified to refer to the gross unrestricted demand
- Paragraph 3.7.3 needs to be modified to ensure that security contribution from embedded generation and DSM resources are taken into account preferably according to the levels notified by the DNO in order to ensure that any restrictions due to local DNO network constraints and ANM system are taken into account.
- We will need to take a view on the following
 - o Whether we need to cap the security contribution in 3.7.3 to such that it does not exceed any single transmission circuit that is used to supply the group or not;
 - o Whether this cap needs to cover the total output of embedded large power station connected to the group or not; and
 - o Whether any DSM contracts, held by the SO, would be taken into account and how to ensure that the same contract is not double counted.
- In effect, the proposal will increase the size of demand groups and, at the same time, increase the resources that could be used to meet the increased demand. Although the two effects cancel each other, the proposal might change the status of compliance at some GSP.

Recommendation

- Transmission Owners to perform a high level assessment for the impact of these changes, and
- Pending the approval to the changes to P2, the outcome of the high level assessment performed by TOs, and the agreement on the three issues highlighted above, draft a consultation document to change Section 3 of the NETS SQSS, namely Demand Connection Criteria Applicable to the Onshore Transmission System.