

Code Administrator Meeting Summary

GSR029: Review of Demand Connection Criteria to Align with EREC P2/7 Workgroup 9

Date: 05/05/2023

Contact Details

Chair: Milly Lewis, National Grid ESO
Proposer: Can Li, National Grid ESO

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Key areas of discussion

Review Terms of Reference

The Workgroup reviewed progress against the Terms of Reference, and agreed that all the Terms of Reference have been considered during the Workgroup meetings, but further discussions are required to fully meet the Terms of Reference. Chair will take an action to inform Panel to remove the “d” from “Provided” in Term of Reference 3, to make the sentence correct.

Update from Proposers

The Proposer took the Workgroup through a presentation and highlighted the main objectives for the modification and its status. The Proposer explained the work developed so far and what is still required to progress the modification forward.

Main highlights were:

Storage contribution to group demand

- A Workgroup member highlighted that it is important that the correct data is offered during the week 24 and week 42 data exchange and the need for alignment with the P27 and SQSS. He advised that National Grid offers a representation of the transmission system at GB peak using the week 42 data, and that some consideration should be given to the state of the individual generation involved in the exchange of data, for consistency and the security of compliance assessments. The Proposer asked if this point relates to the scope of this modification and the Workgroup member clarified that P27 or P28 assessments are the only models carried out on the downstream distribution level, adding that if the exports and imports affect the flows between the interconnected GSPs then it could cause a conflict. The Proposer advised that this will be influenced by the Chapter 4 dispatch, and it would probably require a new modification to deal with the issue. The Chair advised that this issue needs

consideration, and that it is related but out of scope advising that the industry can consider raising a modification to address it if they wish.

- The Proposer advised that storage should be treated the same way a power station that can store energy does, meaning they cannot trigger the group demand. Advising that if batteries are not treated as demand, there is a need to ensure their connection do not reduce the demand security.
- The Proposer clarified that what is applied when a battery is generating is applied when they are taking demand, making them neutral.
- A Workgroup member agreed with the Proposer with regards to try and get an alignment in processes, highlighting the CPA (Construction, Plan and Assumptions) and the potential need for reinforcements, advising on the need for consistency so we do not develop processes that contradict each other.
- Other Workgroup member advised that he supports the Proposer suggestions and that it will feed into the CPA.
- A Workgroup member advised on the need to consider a site that has BESS and underlining demand, as we would not subtract the underlining demand from the group demand, questioning if visibility of these situations is required. Other Workgroup member advised this already happens and that within the current process we should have that visibility, so it is accounted for properly.
- A Workgroup member stated the seeing how the Chapter 3 will be rewritten would help with the considerations and questioned the energy not supplied incentive and how we ensure TOs are not penalised if we no longer including embedded BESS as part of the group demand.

Aggregation of individual GSPs into larger demand groups

- The Proposer advised that the conservative solution is to add the group demands together to form an aggregated demand group, and if non-compliance is identified at sites, then load curves can be requested to facilitate the better aggregation of the group demands.
- A Workgroup member advised that each DNO at a peak point only sees their side of the demand and is difficult for them to identify when the GSP peak is achieved. The Workgroup member explained that the current process followed by NGET is that they borrow ESOs data information about the GSP peak time for the previous year when doing the Week 6 compliance assessment and pass that information to the DNO as part of the compliance report, allowing the DNO in the week 24 submission to know the time stamp to look for when providing the submission for the current year.
- The Proposer asked the Workgroup if that process needs to be changed, advising that considering this modification the change might not be required.
- A Workgroup member confirmed that there is a time lag on the demand data because of the timings for the week 24 assessments and advised that he thought the TOs or the ESO will have the necessary data instead of asking the DNO or the user to provide that data. The Proposer clarified that they do not have data that correspond to the gross demand of each DNO, so assumptions are having to be made on embedded generation.

- A Workgroup member asked about the aggregated totals, to what the Proposer clarified that we are talking about the aggregation of 1 GSP but with different connections to different DNOs and not about the different GSPs into large demand groups.
- A Workgroup member advised that this could be made simpler, explaining that if we are submitting values based on what would be the gross demand peak as individual components, is just about finding the worst-case value for each individual gross peak and base the compliance on that. The Proposer advised that we could use it as a starting point and will consider.
- A Workgroup member stated that considering the connection requests rates at the moment, he doesn't want to be in a position where the data makes it more difficult to know what capacity there is available to connect future customers and NGET will be requiring the data from day 1 even if is not triggering any non-compliance. The Proposer advised that there is a slide that identifies the timings for the data requests.

Estimating the contributions from embedded generation and flexible demand

- The Proposer explained that with contracted demand security it is very straight forward, and the contribution will be the contracted level. When considering the non-contracted ones, for small and medium power stations the DNOs have experience dealing with them through the ERP130, but when it comes to large power station either embedded or connected at an interface point and considering the conversations had with the ICL, the suggestion was to use the option 3 – the computer package approach.
- A Workgroup member provided the Proposer and the Workgroup with several questions and comments regarding the option 3 via email (as not present in the meeting), the Proposer suggested to contact the ICL again to get a better understanding around the issues and to have further discussions when the Workgroup member is present.

Data exchange require to ensure that the assessment of contribution towards demand security takes place correctly and in a timely manner (triggered by the mod, Grid Code issue)

- The Proposer presented the Workgroup with the current data exchange process and the proposed changes.
- The Proposer stated that the Grid Code process assumes that all interactions happen between the ESO, TO and DNO, however in reality is either completely managed by the TO or the ESO with significant input by the TO.
- A Workgroup member questioned about getting an additional stage on what transferable capabilities would be along with data from the DNO on security supply contribution, suggesting that on the back end of Week 28 or at the same time as the additional demand security contribution we capture the transferable capabilities based on compliance but keeping it simple.
- A Workgroup member advised that GC0139 is looking to split the Weeks 24 and 28 process and add extra data exchange in week 2. The Proposer advised that they are aware of it and will clarify with the modification Proposers.

Next Steps

- The Chair to schedule next Workgroups for June and July.
- Workgroup to consider Workgroup Consultation specific questions.

Actions Log

Action number	Workgroup Raised	Owner	Action	Comment	Due by	Status
5	Workgroup 2	TO Reps	TOs to provide feedback on the impact assessment for group demand using Method 1 and/or Method 2 (depending on the site)	Click or tap to enter a date.	Click or tap to enter a date.	Open
7	Workgroup 2	TO Reps	TOs to assess the contribution from large power stations using the methodology in EREP 130 and compare with current practice to understand the impact for change	Click or tap to enter a date.	Click or tap to enter a date.	Open
19	Workgroup 4	BA	Confirm which section of the Grid Code links to GSPs/demand contracts (Operating Code 2 or Planning code)	Click or tap to enter a date.	Click or tap to enter a date.	Open
23	Workgroup 5	BA	Check Elexon data to assess significance of BM actions	Click or tap to enter a date.	Next WG	Open
28	Workgroup 8	BA	Simplify and edit data exchange document and circulate to Workgroup	Click or tap to enter a date.	Workgroup 9	Open
29	Workgroup 8	CCG	Put together list of questions for Market Services from previous meetings notes/Summaries	Click or tap to enter a date.	Workgroup 9	Open
30	Workgroup 8	CL/BA	Address Alan’s comments to ICL	Click or tap to enter a date.	Workgroup 9	Open

31	Workgroup 8	WG	Consider how Gross Demand could be calculated	Click or tap to enter a date.	Workgroup 9	Open
32	Workgroup 8	LF	To advise WG on the current process used for Net Demand	Click or tap to enter a date.	Workgroup 9	Closed
33	Workgroup 8	CL/BA	Consider Demand Security contribution and whether it should be contracted or not	Click or tap to enter a date.	Workgroup 9	Closed
34	Workgroup 8	CL/BA	Clarify position of Transfer Capacity in the spreadsheet and consider if it needs to be upfront	Click or tap to enter a date.	Workgroup 9	Open
35	Workgroup 8	CL/BA	Re-invite Djaved Rostom (Connections Team) to Workgroup	Click or tap to enter a date.	Workgroup 9	Open
36	Workgroup 9	Chair	To remove “d” from “provided” in ToR 3 and advise Panel	Click or tap to enter a date.	Workgroup 10	Open
37	Workgroup 9	Proposer	To have further conversations with ICL with regards to AC comments and BA question	Click or tap to enter a date.	Workgroup 10	Open
38	Workgroup 9	TB	To share the diagram from GC0139 with the Workgroup	Click or tap to enter a date.	Workgroup 10	Open

Attendees

Name	Initial	Company	Role
Milly Lewis	ML	Code Administrator National Grid ESO	Chair
Catia Carvalho Gomes	CCG	Code Administrator National Grid ESO	Technical Secretary
Bieshoy Awad	BA	National Grid ESO	Alternate
Can Li	CL	National Grid ESO	Proposer
Graeme Vincent	GV	SP Energy Networks	Workgroup Member
Le Fu	LF	National Grid Electricity Transmission	Workgroup Member
Roddy Wilson	RW	Scottish & Southern Energy	Workgroup Member
Terry Baldwin	TB	National Grid ESO	Workgroup Member
Gary Loudon	GL	Electricity North West	Workgroup Member
Andy Hood	AH	Western Power	Workgroup Member

Zivanyi Musanhi	ZM	UK Power Networks	Alternate
Philip Bale	PB	Roadnight Taylor	Observer
Peter Stanton	PS	NGET	Alternate