

# GSR029 - Review of Demand Connection Criteria to Align with EREC P2/7

**08 August 2022**

**Online Meeting via Teams**

# WELCOME

A wide-angle landscape photograph of a mountain valley. In the foreground, a grassy hillside slopes down. Several bright, glowing yellow-orange lines, resembling energy or data streams, curve across the middle ground from the left towards the right. In the background, large, rugged mountains with patches of snow are visible under a dramatic sky with scattered clouds. The sun is low on the horizon, creating a warm, golden light across the scene.

**nationalgrid**ESO



# Modification Process

Milly Lewis – National Grid ESO Code Administrator

# Code Modification Process Overview



Talk to us

Forums



Raise a  
mod

Panels



Refine  
solution

Workgroups  
(Workgroup Consultations)



Consult

Ofgem/Panel



Decision



Implement



# Refine solution Workgroups



- If the proposed solution requires further input from industry in order to develop the solution, a Workgroup will be set up.
- The Workgroup will:
  - further refine the solution, in their discussions and by holding a **Workgroup Consultation**
  - Consider other solutions, and may raise **Alternative Modifications** to be considered alongside the Original Modification
  - Have a **Workgroup Vote** so views of the Workgroup members can be expressed in the Workgroup Report which is presented to Panel



# Consult

## Code Administrator Consultation

- The Code Administrator runs a consultation on the **final solution(s)**, to gather final views from industry before a decision is made on the modification.
- After this, the modification report is voted on by Panel who also give their views on the solution.







# Decision



- Dependent on the Governance Route that was decided by Panel when the modification was raised
- **Standard Governance:** Ofgem makes the decision on whether or not the modification is implemented
- **Self-Governance:** Panel makes the decision on whether or not the modification is implemented
  - an appeals window is opened for 15 days following the Final Self Governance Modification Report being published



# Implement

- The Code Administrator implements the final change which was decided by the Panel / Ofgem on the agreed date.





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# Objectives and Timeline

Milly Lewis – National Grid ESO Code Administrator

# Timeline for GSR029 as at 29 July 2022

Milestone	Date	Milestone	Date
Modification presented to Panel	13 July 2022	Code Administrator Consultation	14 November – 12 December 2022
Workgroup Nominations (15 Working Days)	18 July – 5 August 2022	Draft Final Modification Report (DFMR) issued to Panel (5 working days)	16 January 2023
Workgroup 1 - Proposer's presentation, check Terms of Reference, initial review of legal text	8 August 2022	Panel undertake DFMR recommendation vote	24 January 2023
Workgroup 2 – Refine Solution	19 August 2022		
Workgroup 3 - Finalise Workgroup Consultation document	1 September 2022		
Workgroup Consultation (15 working days)	9 September – 30 September 2022	Final Modification Report issued to Panel to check votes recorded correctly	26 January 2023
Workgroup 4 - Discuss consultation responses, refine solution and legal text	10 October 2022	Final Modification Report issued to Ofgem	6 February 2023
Workgroup 5 - Hold Workgroup vote, Finalise Workgroup Report and Legal text	21 October 2022		
Workgroup report issued to Panel (5 working days)	1 November 2022	Ofgem decision	TBC
Panel sign off that Workgroup Report has met its Terms of Reference	9 November 2022	Implementation Date	TBC – in accordance with Authority timeline

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# Workgroup Responsibilities

Milly Lewis – National Grid ESO Code Administrator



## Expectations of a Workgroup Member

Contribute to the discussion

Be respectful of each other's opinions

Language and Conduct to be consistent with the values of equality and diversity

Do not share commercially sensitive information

Be prepared - Review Papers and Reports ahead of meetings

Complete actions in a timely manner

Keep to agreed scope

## Your Roles

Help refine/develop the solution(s)

Bring forward alternatives as early as possible

Vote on whether or not to proceed with requests for Alternatives

Vote on whether the solution(s) better facilitate the Code Objectives

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# Workgroup Alternatives and Workgroup Vote

Milly Lewis – National Grid ESO Code Administrator

# Can I vote? and What is the Alternative Vote?

To participate in any votes, Workgroup members need to have attended at least 50% of meetings

## Stage 1 – Alternative Vote

- Vote on whether Workgroup Alternative Requests should become Workgroup Alternative CUSC Modifications.
- The Alternative vote is carried out to identify the level of Workgroup support there is for any potential alternative options that have been brought forward by either any member of the Workgroup OR an Industry Participant as part of the Workgroup Consultation.
- **Should the majority of the Workgroup OR the Chair believe that the potential alternative solution may better facilitate the CUSC objectives than the Original then the potential alternative will be fully developed by the Workgroup with legal text to form a Workgroup Alternative CUSC modification (WACM) and submitted to the Panel and Authority alongside the Original solution for the Panel Recommendation vote and the Authority decision.**



# Can I vote? and What is the Workgroup Vote?

To participate in any votes, Workgroup members need to have attended at least 50% of meetings

## Stage 2 – Workgroup Vote

- 2a) Assess the original and WACMs (if there are any) against the CUSC objectives compared to the baseline (the current CUSC)
- 2b) Vote on which of the options is best.

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# Terms of Reference

Milly Lewis – National Grid ESO Code Administrator

# GSR029 – Terms of Reference

Workgroup Term of Reference
Consider whether the guidance provided in EREP 130 for assessing the security contribution to the distribution system is suitable for assessing the security contribution to the transmission system
Consider the option to review the analysis undertaken by Imperial College London when developing EREP 130
Given the materiality of typical BESS installations, provided specific guidance on the assessment of BESS demand on the transmission system and assessing the security contribution from it (noting that the security contribution from a BESS is not included in the scope of EREP 130)
Consider if there are any alternative proposals
Consider if there are consequential changes to other codes, such as the Grid Code in relation to planning data,
[ToR determined by Panel]



A landscape photograph of a mountain range with a glowing yellow line representing a proposed alignment. The sun is low in the sky, creating a warm, golden light. The mountains are rugged and partially covered in snow. The foreground is a grassy field. The glowing yellow line starts from the left, curves through the middle ground, and continues towards the right, following the contours of the land. The line is composed of several parallel, slightly wavy segments, giving it a sense of movement and energy. The overall mood is dramatic and hopeful, suggesting a path forward through a challenging environment.

SQSS Modification GSR029  
P2/7 Alignment

Can Li/Bieshoy Awad  
NGESO

# Defects

This modification is proposed to review the demand connection criteria in Section 3 of the NETS SQSS to ensure alignment with EREC P2/7.

There are three main areas to address:

- Group demand definition: The NETS SQSS defines the size of a demand group based on the net transmission system demand. EREC P2/7, on the other hand, defines that size based on the total gross demand.
- NETS SQSS Section 3 does not allow the use of commercial contracts and only takes the output of embedded small power stations to the extent that it reduces the group demand.
- Assumptions for demand security contribution from large power station are different in NETS SQSS Section 3 and EREP 130.

Note: The CBA option in EREC P2/7 will not be replicated in SQSS as this option should only be exercised under specific circumstances. While in EREC P2/7 this may apply to demand groups, the number of transmission connected GSPs is manageable through the normal derogation process in similar circumstances.

## Proposed Solutions

- Change the **definition of *Group Demand*** in clause 3.5 to either the gross demand or net demand plus the output of small, medium and large power stations and flexible demand;
- Introduce a definition of ***Flexible Demand***;
- Revise the background conditions specified in 3.7.3 and 3.7.4 to make it clear that the demand security contribution from embedded small and medium power stations, Demand Side Response, Energy Storage and Active Network Management scheme need to be considered;
- Remove Table 3.2 and replace with the reference to **EREP 130 as guidance** to assess the effective contribution of embedded large power stations to demand group;
- Potentially, introduce a definition of ***Electricity Storage Plant***, which should be a subset of power stations, and clarify that it can contribute to *Group Demand* and demand security.

# What's changed since the draft proposal?

- Highlighted that the CBA option will not be adopted in SQSS.
- Clarified that the reference to EREP130 will act as a guidance only and created the unified requirements on all three transmission areas.
- Revised the definition of *Electricity Storage Plant* to align with Grid Code and CUSC.

## Electricity storage plant

- A *power station* which converts electrical energy into a form of energy which can be stored, stores that energy, and subsequently reconverts that energy back into electrical energy.
- Provided 3 options on Week 24 data submission on demand security contribution from small and medium power stations.
  - Options subject to Grid Code modification (not the focus of this SQSS mod):
  - Request the DNO to submit the data for the GSPs where such assessment has been carried out;
  - Request the DNO to establish the demand security contribution for all GSPs;
  - Or set up a process for TOs to workout network deficiency at certain GSPs and request the DNO to submit the relevant data.

# Workgroup Discussion



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[ToR determined by Panel]

# Next Steps

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