

WELCOME





Grid Code Review Panel

Thursday 22 February 2024

Faraday House

Approval of Panel Minutes

Approval of Panel Minutes from the Meeting held

25 January 2024



Action Log

ESO

Grid Code Review Panel Actions Log

February 2024

Open Actions:

Action No.	Status	Action	Date raised	Owner	Due	Comments and Updates
451	Open	ESO to provide overview of HND to Grid Code Panel	23/11/2023	TB	22/02/2024	The HND team recommend this is done at the April Panel meeting as they are to publish a large piece of work in March (tCSNP2).
452	Open	GC0117 Update	25/01/2024	ML	22/02/2024	GC0117 legal text concern raised by a Panel member to be addressed and confirmation from the Authority regarding a potential interaction with CMP298



Chair's Update

Authority Decisions and Update



Decisions Pending

- ☐ [GC0154: Incorporation of interconnector ramping requirements into the Grid Code as per SOGL Article 119](#) – expected decision due 03 March 2024

Decisions Received since last Panel meeting

- ☐ [GC0156: Facilitating the Implementation of the Electricity System Restoration Standard](#) – decision received on 05 February 2024, for implementation on 04 March 2024

Received Final Modification Reports since last Panel Meeting

- ☐ None

The Authority's publication on decisions can be found on their website below:

<https://www.ofgem.gov.uk/publications/code-modificationmodification-proposals-ofgem-decision-expected-publication-dates-timetable>



Inflight Modification Updates

Jonathan Whitaker, Code Administrator

GC0103 Update

Background and update

GC0103 was originally raised in 2017. As part of the modification, TOs began an analysis task of the Relative Electrical Standards (RES) however they struggled to find a sufficient benefit case for a change at that time. The modification was de-prioritised by Panel but re-instated in 2023.

A sub-group was formed in August 2023 and TOs within that group were asked to explore the RES for whether, and where, harmonisation was possible and potential impacts of that to support the proposal. TOs determined that the level of expert resource required to complete such an extensive task internally was difficult to provide a business case for. As such we understand they have engaged consultants to support with this task, however they have not been able to provide an update on how long scoping/completing the project will take. Sub-group and Workgroup meetings are on hold until there is sufficient information to proceed with.

Following the Winsor Report (Aug 2023), the November 2023 Autumn Statement recommended an ENA-led forum meet in late 2023 to discuss harmonisation of equipment standards, with a view to implement standardisation processes in 2024. Since that announcement there has been no news on this taking place and it is unclear how this will influence/be influenced by GC0103. The ESO will also reference this at STC Panel in case Panel members can encourage updates from the TOs involved.

GC0103 - the asks of Panel

- **AGREE** to receiving a timeline update in due course once the TOs can provide an update and/or there is news of the ENA-led industry forum to warrant sub-group or Workgroup discussions.

GC0139: Enhanced Planning-Data Exchange to Facilitate Whole System Planning Timeline Update

	Workgroup Report issued to Panel	DFMR issued to Panel	FMR issued to Ofgem	Implementation Date
Previous timeline	22 May 2024	17 July 2024	09 August 2024	TBC
New timeline	16 September 2024	02 December 2024	17 January 2025	TBC

Rationale: As previously discussed, more time was required to complete analysis and to continue work on the legal text with the Subgroup.

Workgroups Remaining: 5

Ask of Panel: Agree revised timeline

GC0159: Introducing Competitively Appointed Transmission Owners

Timeline Update

	Workgroup Report issued to Panel	DFMR issued to Panel	FMR issued to Ofgem	Implementation Date
Previous timeline	14 February 2024	17 April 2024	26 March 2024	10WD following decision
New timeline	13 March 2024	22 May 2024	11 June 2024	10WD following decision

Rationale: Scheduled Workgroups for this modification were not quorate and so were rescheduled, leading to a delay in the timeline.

Workgroups Remaining: 1

Ask of Panel: Agree revised timeline

GC0167 Withdrawal

Material and Non Material Grid Code Changes

The Proposer withdrew their support for GC0167 on 23 January 2024. A withdrawal window was opened up for 5 business days from 26 January 2024.

No parties came forward to become the Proposer for this Modification.

GC0167 - the asks of Panel

- **AGREE** that the Modification can be withdrawn.



Panel Tracker

Jonathan Whitaker, Code Administrator

Prioritisation Stack

Grid Code - Prioritisation Stack



Mod Number	Previous Priority No:	Priority No	Title
GC0139	2	1	Enhanced Planning Data Exchange to Facilitate Whole System Planning
GC0117	3	2	Improving transparency and consistency of access arrangements across GB by the creation of a pan-GB commonality of PGM requirements
GC0155	4	3	Clarification of Fault Ride Through Technical Requirements
GC0163	5	4	GB Grid Forming (GBGF) - Removal of Virtual Impedance restriction
GC0159	6	5	Introducing Competitively Appointed Transmission Owners
GC0166	7	6	Introducing new Balancing Programme Parameters for Limited Duration Assets
GC0164	8	7	Simplification of Operating Code No.2
GC0103	9	8	The introduction of harmonised Applicable Electrical Standards in GB to ensure compliance with the EU Connection Codes
GC0140	10	9	Grid Code Sandbox: enabling derogation from certain obligations to support small-scale trials of innovative propositions

Grid Code Development Forum – Previous and Next

07 February 2024

Presentation: Presentation: Guidance Notes for System Oscillation Assessment of Inverter Based Resources (IBRs) – Aleem Abid and Xiaoyao Zhou, NGESO

A presentation was be given on the guidance notes prepared by the Electricity System Operator (ESO) to describe to Users on how to demonstrate the appropriate damping performance of Inverter Based Resources (IBRs) against potential system oscillations. These Guidance Notes specify a set of small signal studies which should be carried out by Users as part of the connection compliance process to ensure the safe operation and stability of the transmission system.

The Guidance Note can be found [here](#).

06 March 2024 (Deadline for Agenda items - 28 February 2024)

Agenda items TBC.



Standing Items

- Distribution Code Panel update (Alan Creighton)
- JESG Update (information only)
 - Meeting on 13 February 2024 (Cancelled)
 - Next meeting – 12 March 2024



Updates on other industry codes

CUSC Overview – January

New Modifications:

CMP428 ‘User Commitment liabilities for Onshore Transmission circuits in the Holistic Network Design’

The Panel by majority agreed that CMP428 should follow the Standard governance route and proceed to the Workgroup formed for CMP426. The Panel agreed the Terms of Reference for the Workgroup. CMP428 documentation can be found [here](#).

CMP429 ‘Typographical and formatting updates following the implementation of CMP376 (Inclusion of Queue Management process within the CUSC)’

The Panel unanimously agreed that CMP429 should follow the Fast Track Self Governance route and be implemented. CMP429 documentation can be found [here](#)

Authority Decisions:

CMP298: Updating the Statement of Works process to facilitate aggregated assessment of relevant and collectively relevant embedded generation

The Authority approved WACM3 on 04 January 2024, which was implemented on 18 January 2024. Documentation can be found [here](#).

Workgroup Reports: none

Draft Final Modification Reports:

CMP286 ‘Improving TNUoS Predictability Through Increased Notice of the Target Revenue used in the TNUoS Tariff Setting Process’.

The Panel has recommended by majority that the Proposer’s solution and WACM1 better facilitate the CUSC Applicable Objectives. The Final Modification Report will be sent to Ofgem on 08 February 2024. CMP286 documentation can be found [here](#).

CMP315: TNUoS Review of the expansion constant and the elements of the transmission system charged for & CMP375: Enduring Expansion Constant & Expansion Factor Review

The Panel has recommended by majority that the CMP315 Original solution better facilitate the CUSC Applicable Objectives. The Panel has recommended unanimously that the CMP375 Original solution, and by majority, that WACM2 better facilitate the CUSC Applicable Objectives. The Final Modification Report will be sent to Ofgem on 07 February 2024. CMP315 and CMP375 documentation can be found [here](#)

Challenges to Modification Progress

	Nov		Dec		Jan	
	Count	Mods affected	Count	Mods affected	Count	Mods affected
Legislation Delay	1	GC0159	0	-	0	-
Analysis Delay	0	-	0	-	0	GC0155
Legal Text Delay	0	-	1	GC0117	1	GC0159 GC0164

Horizon Scan

Lead Cc	Industry	Codes Affected	Legislative, Regulatory or Industry Change Overview	Published Content	Key Contact	Last Updated	Proposed Modifications Expected
Grid Code	Electricity	Grid Code	As Great Britain's (GB) power system moves towards net zero carbon operation, the number of Inverter-Based Resources (IBR) is expected to increase and the amount of synchronous generation in the grid to decline which will significantly change the characteristics of the GB network. These changes give rise to the potential control interactions between the devices across the network leading to risks of oscillations and inverter stability. Electromagnetic Transient (EMT) analysis is important for investigating the dynamics of		jay.ramachandran@nationalgrideso.com	Feb-24	Mar-24
Grid Code	Electricity	Grid Code, CUSC, and STC	The Offshore Coordination Project has been set up by the ESO with support from Ofgem and the Department for Business, Energy & Industrial Strategy. Offshore wind has been identified as a critical technology in achieving net zero greenhouse gas emissions by 2050. In order to help realise this target, a step-change in both the speed and scale of deployment of offshore wind is required. One SQSS raised, expect late Q1 2024 we will know relevant GC mods that will be required.	ESO Offshore Coordination Project Page	box.OffshoreCoord@nationalgridESO.com	Nov-23	Mar-24
Grid Code	Electricity	Grid Code, CUSC, and STC	FSO mods are coming around Q2. The FSO will be established in 2024, with new roles and capability being introduced in a phased approach. Secondary legislation is required; therefore, specific timelines are subject to change.	https://www.nationalgrideso.com/what-we-do/becoming-future-		Nov-23	Apr-24
Grid Code	Electricity	Grid Code, CUSC, and STC	Grid Forming GB Grid Forming- to provide the necessary guidance on the Compliance Process of Grid Forming technology following Grid Code Modification GC0137 "Minimum Specification Required for Provision of GB Grid Forming (GBGF) Capability" as shown on the ESO's Grid Code Issue 6 Revision 17 as published on 4 September 2023.	https://www.nationalgrideso.com/document/278491/download		Nov-23	Apr-24
Grid Code	Electricity	Grid Code	Connections Reform All responses to our Connections Reform consultation are now being reviewed, and we're working with stakeholder governance groups to refine our final proposals for implementing and transitioning to a new model. ESO expect to publish our final recommendations and implementation plan by the end of November 2023. We will then start a transition and implementation phase, to conclude in spring/summer 2025	https://www.nationalgrideso.com/industry-information/connections/connection-reform		Nov-23	May-24



Any Other Business

Consultation on the Implementation of
Energy Code Reform – Authority

Activities ahead of the next Panel Meeting

Modification Proposals to be submitted	06 March 2024
Papers Day	13 March 2024
Panel Meeting	21 March 2024 Microsoft Teams

Close



Trisha McAuley

Independent Chair, Grid Code Review Panel