



# Grid Code Review Panel

Thursday 23 November 2023

Online Meeting via Teams

# WELCOME



# Purpose of Panel & Duties of Panel Members

The **Panel** shall be the standing body to carry out the **functions** referred to in the Governance Rules (**GR3.1.1**)

## Functions (GR.3.2)

The **Panel** shall endeavour at all times to operate:

- in an **efficient, economical and expeditious manner**, taking account of the complexity, importance and urgency of particular Modification Proposals; and
- With a view to ensuring that the **Grid Code** facilitates **achievement of the Grid Code Objectives**.

## Duties of Panel Members & Alternates (GR.3.3)

1. Shall act **impartially** and in accordance with the requirements of the **Grid Code**; and
2. Shall not have any **conflicts of interest**.

Shall not be representative of, and shall act without undue regard to the particular interests of the persons or body of persons by whom he/she was appointed as Panel Member and any Related Person from time to time.

# Approval of Panel Minutes

Approval of Panel Minutes from the Meeting held

26 October 2023



# Action Log

Action No.	Status	Action	Date raised	Owner	Due	Comments and Updates
440	Open	Update on the status of GC0139 and remaining work required to be given to GCRP following completion of analysis and tender.	28/09/2023	TP	23/11/2023	Analysis is still ongoing so no update post analysis can be given at this stage. The next workgroup is on 18 January 2024, agenda is to review completed analysis, updated legal text and draft Workgroup consultation document. Propose to close.
441	Open	CATO legislation update to be given to the STC Panel	28/09/2023	DS	25/10/2023	Completed at October STC panel. Propose to close.
442	Open	European legislation: provide update covering interactions between GB and EU law with regard to the Grid Code.	28/09/2023	JW		European Frameworks team at ESO have reached out to GCRP panel members to clarify the exact ask ahead of preparing a response.
443	Open	Add HND Subgroup update into monthly slide pack for GCRP.	28/09/2023	JW	23/11/2023	HND update added into GCRP slide pack. Propose to close.
444	Open	Energy Code Reform Update to be given by Code Administrator to the STC Panel	28/09/2023	SC	25/10/2023	Completed at October STC panel by Deborah Spencer STC Panel Secretary. Propose to close.
445	Open	JW to check if a representative from the Code Administrator can attend the cross-code workgroup.	26/10/2023	JW	23/11/2023	Sarah Carter will attend to represent the Code Administrator. Propose to close.
446	Open	Terms of Reference for GC0163 to be shared with GCRP via e-mail.	26/10/2023	JW	31/10/2023	Completed. Propose to close.
447	Open	JW to report back to panel on modification timelining.	26/10/2023	JW	23/11/2023	Update as part of 'challenges to modification progress' agenda item at November GCRP. Propose to close.
448	Open	Code Administrator to internally review process for reviewing legal text prior to submission to panel and report to panel	26/10/2023	JW	23/11/2023	JW to give verbal update at November GCRP. Propose to close.
449	Open	Tony Johnson/Code Administrator to circulate GC0156 associated documents with GCRP.	26/10/2023	TJ/JW	23/11/2023	Documents circulated with GCRP papers.



## Chair's Update

# Authority Decisions and Update (as at 15 November 2023)



## Decisions Pending

- ☐ [GC0156: Facilitating the Implementation of the Electricity System Restoration Standard](#)

## Decisions Received since last Panel meeting

- ☐ None

## 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

# GC0159: Introducing Competitively Appointed Transmission Owners Timeline Update

	Workgroup Report issued to Panel	DFMR issued to Panel	FMR issued to Ofgem
Previous timeline	16 November 2023	17 January 2024	7 February 2024
New timeline	6 December 2023	14 February 2024	26 March 2024

**Rationale:** A new timeline after the legislation delay. Legislation has now been passed by Parliament and received Royal Assent on the 26th of October 2023. The timeline is aligned with the other CATO mods, with all FMRs to the Authority on the same day.

**Workgroups Remaining:** 2




**Ask of Panel:** Agree revised timeline



# Panel Tracker

Jonathan Whitaker, Code Administrator

## Prioritisation Stack

Grid Code - Prioritisation Stack   			
Mod Number	Previous Priority No:	Priority No.	Title
GC0162	2	1	Changes to OC6 to amend the operational timings for the delivery of the additional demand reduction above 20%, with a focus between 20% and 40%
GC0139	3	2	Enhanced Planning Data Exchange to Facilitate Whole System Planning
GC0117	4	3	Improving transparency and consistency of access arrangements across GB by the creation of a pan-GB commonality of PGM requirements
GC0154	5	4	Incorporation of interconnector ramping requirements into the Grid Code as per SOGL Article 119
GC0155	6	5	Clarification of Fault Ride Through Technical Requirements
GC0163	N/A	6	GB Grid Forming (GBGF) - Removal of Virtual Impedance restriction
GC0164	N/A	7	Simplification of Operating Code No.2
GC0103	6	8	The introduction of harmonised Applicable Electrical Standards in GB to ensure compliance with the EU Connection Codes
GC0159	7	9	Introducing Competitively Appointed Transmission Owners
GC0140	8	10	Grid Code Sandbox: enabling derogation from certain obligations to support small-scale trials of innovative propositions

# Grid Code Development Forum – Previous and Next

**1 November 2023**

## **EDT Data Submission – Contingency Trial with SSE**

A presentation was shared giving an overview of a trial that the ESO is currently undertaking with SSE to establish a contingency process for EDT data submission.

## **Digitalised Whole System Technical Code – ASR (Alignment, Simplification & Rationalisation) Workstream**

An overview of the ASR (Alignment, Simplification and Rationalisation) workstream of the dWSTC (Digitalised Whole System Technical Code) Project was provided which included an update following the submission of the Grid Code Modification (GC0164), which proposes the simplification of Operating Code No.2, with discussions in relation to the possible next sections of the Grid Code that could benefit from simplification.

## **Proposed changes to the Grid Code in the treatment of Embedded Small Power Stations with a Bilateral Embedded Generation Agreement (BEGA)**

A presentation was shared detailing proposed changes to the Grid Code in respect of the compliance process for Embedded Small Power Stations with a Bilateral Embedded Generation Agreement (BEGA)

**22 November 2023 (Deadline for Agenda items - 15 November)**

Final Agenda items TBC



## Standing Items

- Distribution Code Panel update (Graeme Vincent)
- JESG Update (information only)
  - Previous meeting – 14 November - Cancelled
  - Next meeting – 12 December 2023
- Holistic Network Design Subgroup (Terry Baldwin)



## Updates on other industry codes

# Challenges to Modification Progress

	Aug		Sep		Oct	
	Count	Mods affected	Count	Mods affected	Count	Mods affected
Legislation Delay	0	-	1	GC0159	0	-
Analysis Delay	2	GC0103 GC0117	1	GC0139	1	GC0117
Legal Text Delay	2	GC0139 GC0155	0	-	1	GC0154

# Horizon Scan

Lead Code	Industry	Codes Affected	Legislative, Regulatory or Industry Change Overview	Published Content	Key Contact	Last Updated	Proposed Modifications Expected
Grid Code	Electricity	Grid Code	<p>Connections Reform</p> <p>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.</p> <p>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</p>	<a href="https://www.nationalgrideso.com/industry-information/connections/connections-reform">https://www.nationalgrideso.com/industry-information/connections/connections-reform</a>		Nov-23	May-24
Grid Code	Electricity	Grid Code, CUSC, and STC	<p>FSO mods are coming around Q2.</p> <p>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.</p>	<a href="https://www.nationalgrideso.com/what-we-do/becoming-future-system-operator-fso">https://www.nationalgrideso.com/what-we-do/becoming-future-system-operator-fso</a>		Nov-23	Apr-24
Grid Code	Electricity	Grid Code, CUSC, and STC	<p>Grid Forming</p> <p>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.</p>	<a href="https://www.nationalgrideso.com/document/278491/download">https://www.nationalgrideso.com/document/278491/download</a>		Nov-23	Apr-24
Grid Code	Electricity	Grid Code, CUSC, and STC	<p>The Offshore Coordination Project has been set up by the ESO with support from Ofgem and the Department for Business, Energy &amp; Industrial Strategy.</p> <p>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.</p> <p><b>One SQSS raised, expect late Q1 2024 we will know relevant GC mods that will be required.</b></p>	<a href="#">ESO Offshore Coordination Project Page</a>	<a href="mailto:box.OffshoreCoord@nationalgrideso.com">box.OffshoreCoord@nationalgrideso.com</a>	Nov-23	Mar-24
Grid Code	Electricity	Grid Code (CUSC for fax instructions)	<p>The Balancing Programme was established to develop the balancing capabilities that the Electricity National Control Centre needs to deliver reliable and secure system operation, facilitate competition everywhere and meet the ESO's ambition for net-zero carbon operability. The following elements are expected to start to land from January BSC Issues Group (relating to Optimisers giving instruction recommendations); Storage and Batteries (MDV and MDP) and the use of Faxes to instruct. <b>(Nov-23; Liaising with Balancing Programme to ascertain Code Change requirements)</b></p>	<a href="#">Balancing Programme website</a>		Nov-23	Jan-24
Grid Code	Electricity	Grid Code	<p>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 converters, control interactions between the devices in the network, detecting system oscillations, commutation failure analysis, inverter stability analysis and identifying transient phenomena such as Transient Over Voltage (ToV). ESO is suggesting a Grid Code change that mandates generators to provide EMT models for their plants</p>		<a href="mailto:jay.ramachandran@nationalgrideso.com">jay.ramachandran@nationalgrideso.com</a>	Aug-23	Dec-23



# Electrical Standards

## Electrical Standards and documentation Update

Tony Johnson



**Any Other Business**

## Activities ahead of the next Panel Meeting

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**Modification Proposals to be submitted**

29 November 2023

**Papers Day**

06 December 2023

**Panel Meeting**

14 December 2023  
Teams Meeting

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# Close



**Jamie Webb**

**Acting Independent Chair, Grid Code Review Panel**