

Public

Grid Code Review Panel

Thursday 24 October 2024

Faraday House, Warwick

Public

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 time 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.

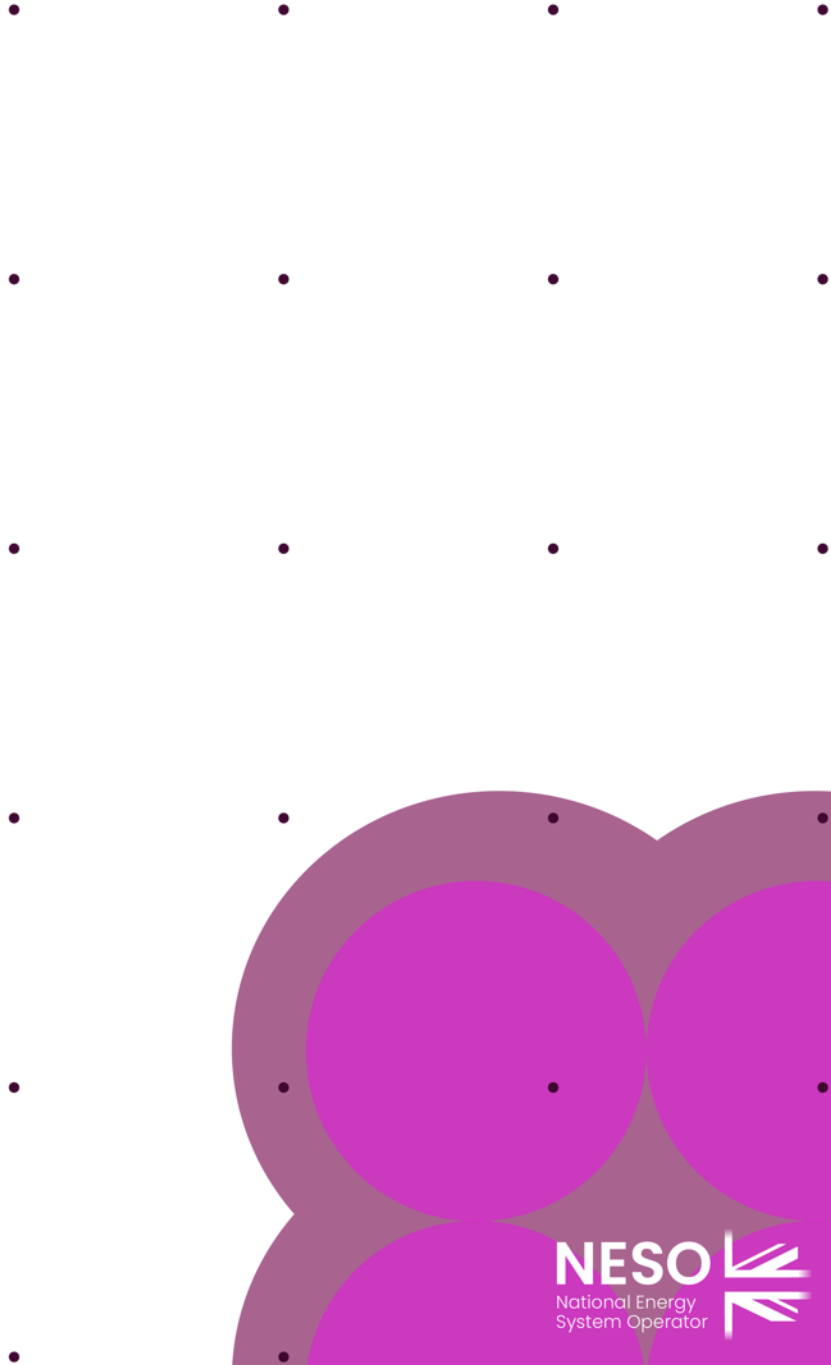
Approval of Panel Minutes

Approval of Panel Minutes from the Meeting held

26 September 2024

Public Action Log

Action No.	Status	Action	Date raised	Owner	Due	Comments and Updates
456	Open – Propose to close	Ofgem ECR team to be invited to a future Grid Code Review Panel to provide update around milestones	30/05/2024	GS/SC	October 2024	<p>As of July 2024, the ECR team do not yet have an update to provide. This is anticipated to follow in a couple of months.</p> <p>GS has had a conversation with ECR team, and they do not have any updates currently. As and when there is something to present the ECR team will approach GCRP and book a slot to come to the panel.</p>
466	Open – Propose to close	A link to the GCDF meeting materials added to the GCRP slides	26/09/2024	CN/SW	October 2024	Added to the October 2024 slide pack
459	Open	Process flow for new sections in code created that may fall into EBR	30/05/2024	SW	October 2024	<p>Terms of Reference templates updated to reflect Electricity Balancing Regulation consideration as standard for all modifications.</p> <p>SW will return to October GCRP to provide EBR update</p>
465	Open	To provide a general update at a future Panel on the wider work going on in relation to Bilateral Embedded Generation Agreement (BEGA's)	26/09/2024	CN	January 2025	<p>CN spoke to the Commercial team, who advised in terms of timing, the New Year might be best.</p> <p>Also waiting until we know the outcome of GC0117.</p>



Chair's Update

Authority Decisions and Update (as of 24 October 2024)

Decisions Received since last Panel Meeting

Modification	Decisions	Implementation Date
None		

Decisions Pending

Modification	Final Modification Report Received	Expected Decision Date
GC0117: Improving transparency and consistency of access arrangements across GB by the creation of a pan-GB commonality of Power Station requirements	14 May 2024	06 December 2024
GC0172: Replacing References to Electricity Supply Industry Arbitration Association	07 August 2024	06 December 2024

Received Final Modification Reports since last Panel Meeting

Modification	Final Modification Report Received	Expected Decision Date
None		

New Modifications Submitted

GC0175: Removing references to Fax or Facsimile within the Grid Code

Self-Governance

NEW

Critical Friend Feedback – GC0175

Code Administrator comments	Amendments made by the Proposer
<p>Recommended going back to GCDF, further developing proposal and coming back as a straight to CAC Governance Route</p> <p>Suggested an annex outlining what the DES is, and their obligations</p> <p>Requested legal text on baseline Grid Code documents</p> <p>Minor typographical and formatting changes</p>	<p>Proposer accepted all amendments made by the Code Administrator</p>

Timeline for GC0175 – Proposed Timeline – Code Administrator Consultation

Milestone	Date
Modification presented to Panel	24 October 2024
Code Administrator Consultation (1 month)	29 October 2024 to 29 November 2024
Draft Self Governance Modification Report issued to Panel (5 business days)	04 December 2024
Panel undertake Draft Self Governance Modification Report determination vote	12 December 2024
Final Self Governance Modification Report issued to Panel to check votes recorded correctly	16 December 2024 – 10 January 2025
Appeals Window (15 business days)	13 January 2025 – 03 February 2025
Implementation Date 5 business days after closure of Appeals Window if no Appeals received	TBC

Public

GC0175 - Removing references to “Fax” or “Facsimile” within the Grid Code

GCRP – 24 October 24

What is the issue?

- NESO currently use fax machines within the Electricity National Control Centre to send and receive data from Primary and some Secondary Balancing Mechanism Units (BMUs).
- A number of these data submissions from BMUs support critical functions such as System Restoration, by transmitting data such as Unit Availability.
- Fax machines are aged technology which results in replacement parts difficult to resource and makes management of paper output for reporting and audit purposes time consuming.
- Feedback from Industry has suggested that a new method of communication between Users and NESO is required to replace the existing fax machine process.

Why change?

- The Public Switched Telephone Network (PSTN) that fax machines use, is [due to be switched off by the start of 2027](#) which will result in all non-voice services that use this network ceasing.
- In readiness for the PSTN switch off, an alternative method of communication between relevant Users and NESO will need to be established to ensure current interactions can continue.
- The new solution needs to be:
 - Easily adopted by existing and new market participants.
 - Secure.
 - Meet the needs of the market participants and ESO.
 - Deployed with minimal complexity / risk

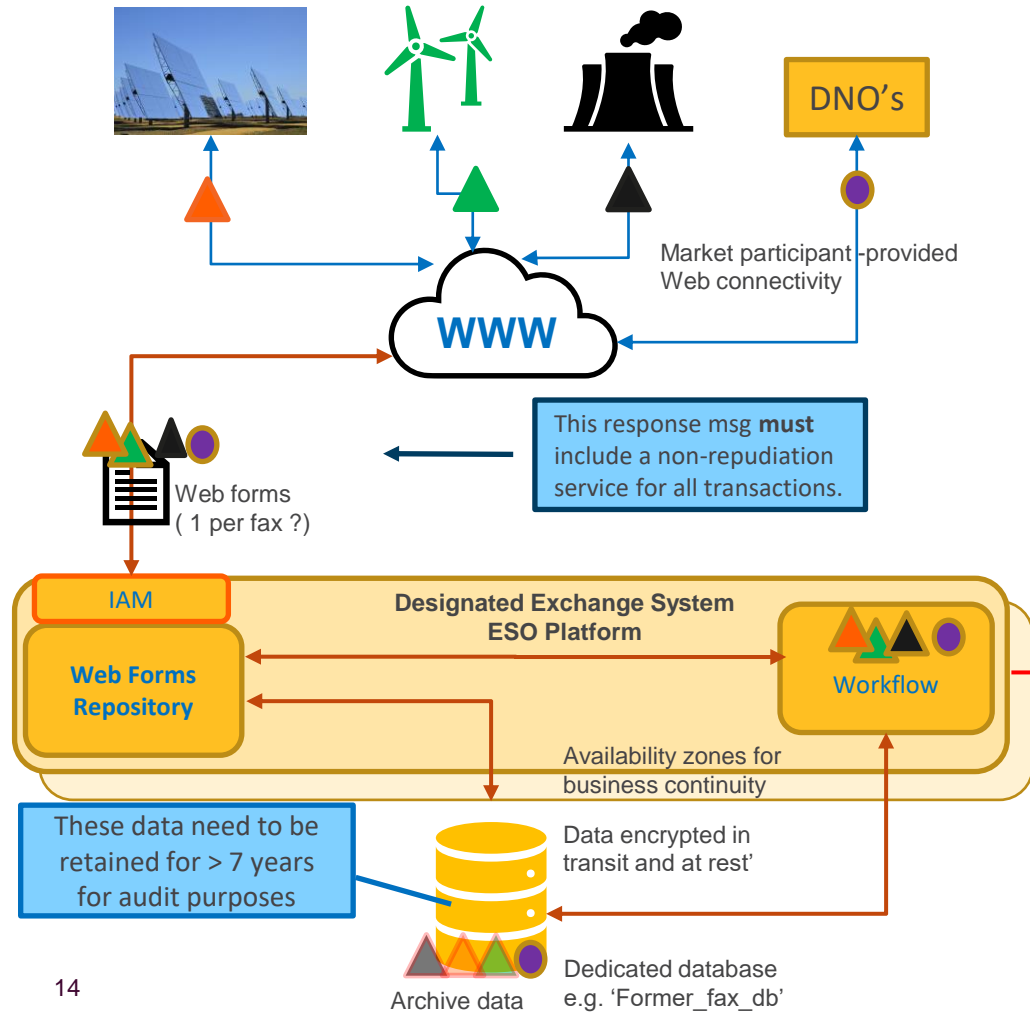
Overview of the proposer's solution

Principles of new solution

- New definitions of “Designated Information Exchange System” and “Electronic Communication Platform” will be introduced to allow for a phased approach across from the fax machine to the new platform for Users.
- The solution will also utilise the opportunity to replace references to fax within the codes that are not related to Control Room activities and have now been superseded by other forms of communication e.g., email.
- Reduce dependencies on other projects wherever possible.
- Security by design.
- Re-use / leverage existing platforms and technologies where appropriate .
- Adaptable for future developments e.g. the Open Balancing Platform (OBP).
- Provide all parties with the delivery / receipt assurance required.

Overview (phase 1)

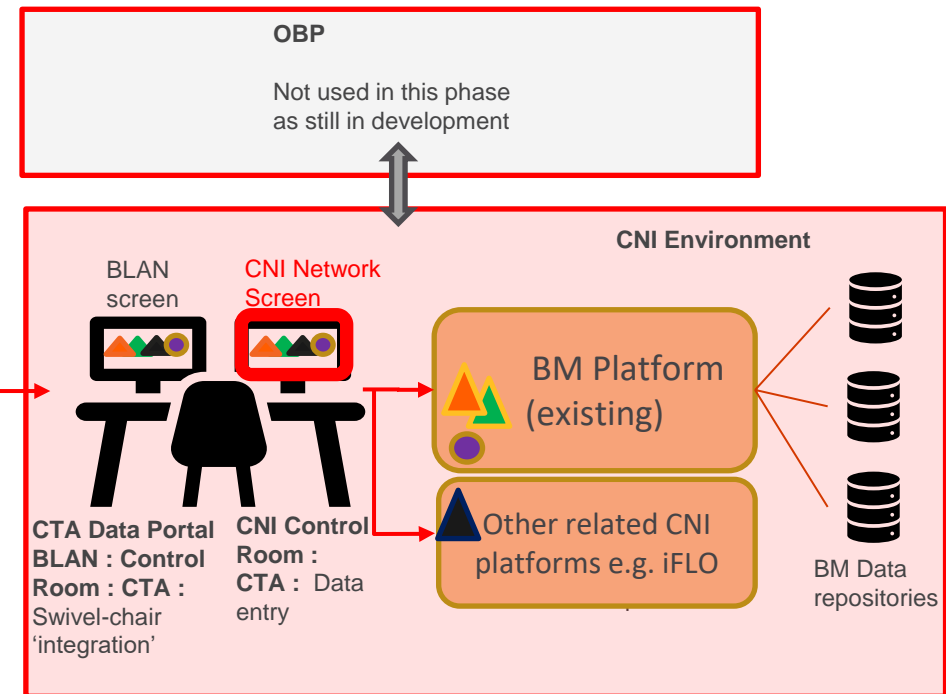
All MPs (BMU / Non-BMU)



Shapes denote 'fax data' from market participants

Solution summary : Phase 1

- Faxes are eliminated in a phased manner, and replaced by web forms to gather data
- Data capture for Phase 1 is via a web 'form' which enables *all* participants to use digitised data
- Lowest risk / fewest dependencies on other programmes / platforms



Access and Use

- Users will register details on first use to create an account.
 - First Name, Last Name, Email ID.
 - Company Trading Name. Company Trading ID.
 - Contact number.
- Subsequent access will require identification and authentication.
- NESO control room users will be able to view and respond to all incoming requests.
- Market Participants will only be able to see their own submissions and responses from NESO control room.
- Users will complete a web form with the same data that is currently faxed.
 - Each paper fax has a corresponding web form.
 - Data are entered using a combination of drop downs, tick boxes and free text.
 - Validation will be performed on several fields to help prevent errors.

Screenshots (subject to change)

CTN 1
Control Room Admin

DESIGNATED EXCHANGE SYSTEM

Manage Users Home Settings

Trading Party Name

Search & Select Trading Parties

Squeaky Clean Energy Trading

CEZ A.S

MWH Energy B.V.

Aarhus Energy A/S

Aberdeen Offshore Wind Farm

Centrica Energy Limited

Adela Energy Ltd

AEC Enterprises Limited

Advanced Electricity Network

Indian Queens Power Ltd

Afton Wind Farm Limited

Inbound Submissions Outbound Submissions Dashboard System Warnings Market Notifications SIRs

Inbound Outbound

System Warnings

Select from drop down

Bulletins

Demand Control Imminent

High Risk Of Demand Reduction

High Risk Of Demand Reduction Non-Embedded..

Inadequate System Margin

Risk Of System Disturbance

CTN 1
Control Room Admin

DESIGNATED EXCHANGE SYSTEM

Manage Users Home Settings

Trading Party Name

Search & Select Trading Parties

Squeaky Clean Energy Trading

CEZ A.S

MWH Energy B.V.

Aarhus Energy A/S

Aberdeen Offshore Wind Farm

Centrica Energy Limited

Adela Energy Ltd

AEC Enterprises Limited

Advanced Electricity Network

Indian Queens Power Ltd

Afton Wind Farm Limited

Inbound Submissions Outbound Submissions Dashboard System Warnings Market Notifications SIRs

Inbound Outbound

System Warnings

Demand Control Imminent

GB Transmission system warning

Risk of System Disturbance

A GB Transmission system warning is issues for the period

From (Hrs) to (Hrs) on (Day) / / (Date)

There is a risk of widespread serious disturbance to the whole or part of the GB Transmission System.

Nature of Disturbance/Area of Risk

Each user is requested to warn its operational staff and to maintain its Plant and /or Apparatus in the condition it is best able to withstand the anticipated disturbance.

No further action is required until instruction is given by NGESO.

The situation will be reviewed again by NGESO at hours and an update issued.

Notification issued at Hrs on / /

(Signed) NGESO Electricity National Control Center.

(Print Name)

Note: This warning will remain in force for the specified period until updated or cancelled by NGESO

Send

CTN 1
Control Room Admin

DESIGNATED EXCHANGE SYSTEM

Manage Users Home Settings

Inbound Submissions Outbound Submissions Dashboard System Warnings Market Notifications SIRs

Dashboard

Inbound Outbound

Name of the submission	Registered Party	Type of Submissions	Submitted by	Received At	Acknowledgement status	Acknowledgement by ESO
NG computer IT system Failure	GB Energy Supply Limited	Data	garyjohn@nationalgrid.com	20 June 2024 - 10:30	Acknowledged	jenny@britishgas.com
NG Computer It system Failure	Squeaky Clean Energy Trading	SIR	julianisa@nationalgrid.com	20 June 2024 - 10:30	Pending	clarie@britishgas.com
Light Load Periods - Tech Restrictions exce..	CEZ A.S	System Warning	kaytacia@nationalgrid.com	20 June 2024 - 10:30	Acknowledged	johnrtrn@britishgas.com
Ancillary services Daily return-OEM Header..	MWH Energy B.V.	Data	zoamaria@nationalgrid.com	20 June 2024 - 10:30	Acknowledged	ftan@britishgas.com
Ancillary services Daily Return-OTM Header	Aarhus Energy A/S	SIR	hariat@nationalgrid.com	20 June 2024 - 10:30	Acknowledged	paulajohn@britishgas.com
Lead Party Manifest Error claim	Aberdeen Offshore Wind Farm	System Warning	garyjohn@nationalgrid.com	20 June 2024 - 10:30	Pending	clarie@britishgas.com
NETSO Manifest O						
Operation event P						
Power System O						
N-3 Interripping						
Lead Party Manife						

Jenny Paul
External Admin

DESIGNATED EXCHANGE SYSTEM

Manage Users Home Settings

Manage Users

Create Users

Show 10 entries

Search

First Name	Last Name	User Email	Contact Details	User Role	Status	Company Name	Company ID	Actions
John	Paula	paulajohn@britishgas.com	07799 321036	External Admin (Read & Write)	Active	British Gas	BGXX492CD	Edit Delete
CTN 2	---	ctn2@nationalgrid.com	07799 321036	External Role (Read Only)	Active	British Gas	BGXX492CD	Edit Delete
Steven	Doherty	steven.doherty@sse.com	07799 321036	External Admin (Read & Write)	Active	British Gas	BGXX492CD	Edit Delete
Malcolm	Barnacle	malcolm.barnacle@sse.com	07799 321036	External Role (Read Only)	Active	British Gas	BGXX492CD	Edit Delete
Bhillman	S	bhillman@spenenergy.co.uk	07799 321036	External Admin (Read & Write)	Active	British Gas	BGXX492CD	Edit Delete
Preprodbr	Ynd	preprodbr_ynd@nationalgridplc.com	07799 321036	External Role (Read Only)	Active	British Gas	BGXX492CD	Edit Delete
Jenny								
Andrew								
Bhillman								

Showing 10 entries

Create User

First Name* : John

Last Name : Paula

User Email* : paulajohn@britishgas.com

Contact Details* : 07799 321036

User Role* : External Admin (Read & Write)

Status* : Active

Company Name* : British Gas

Company ID* : BGXX492CD

Cancel Submit

Security & Availability

- **Encryption**
 - All data will be encrypted in transit and at rest.
- **User Authentication**
 - All users will be required to login to the platform using a named user account .
- **Audit Trail**
 - All actions by DES users will be recorded in the database for audit purposes.
- **System Availability**
 - The platform will be designed to be highly available, running across multiple-regions and availability zones.

Risk Mitigation

- Reducing risk by decoupling from other programmes:
 - This phase builds the DES portal without any integration into other platforms such as OBP.
 - We are not dependent on other programmes delivery timescales.
 - Enables a quicker delivery and fast decommissioning of faxes.
- Data Validation
 - The risk of erroneous data is mitigated by the NESO Control room performing a review and approval function prior to the data being submitted into NESOs systems
- Impact on Market Participants
 - We will adopt a phased approach, deploying the least critical 'fax' messages first to validate the platform and gather user feedback to deliver iterative enhancements when required.

Reliability

- Current Fax Machines use BT PSTN phone network:
 - Reliant on availability of BT exchange – no power at the exchange, no fax.
 - Localised failures of BT exchanges could impact individual BMUs.
 - Faxes are fallible – they are not 100% available.
- Solution is based on cloud-computing (Azure):
 - Aim is to exceed the 99.95% availability figure for BM.
 - Extensive high availability and recovery options are available.
- Dependency on reliable internet connectivity
 - Access is through a web page, so a reliable internet connection is essential (to be provided by the market participant) .

Phased Launch and Proposed Code Change Governance Route

- The proposed Legal Text will ensure that fax machines can continue to be used from implementation of the changes into the code in order for Users to be phased across to the new platform over a period that will be agreed between NESO and the User. **A housekeeping modification will be raised once all Users have been moved across to the new platform to remove and remaining references to “Fax” or “Facsimile”**

Justification for proposed governance route

- Feedback from Industry has shown that Users are keen to move away from fax machines which is aged technology.
- No new additional obligations are being created, with the proposed changes introducing a different communication method for fulfilling current actions that take place via fax.
- Updates have also been shared at the Grid Code Development Forum (GCDF) as the project has progressed with feedback incorporated into the proposed solution.
- The phased launch described above will ensure Users only fully move away from faxes once they are comfortable with the proposed new platform.

Grid Code Self-Governance Criteria

Self-Governance Criteria	<p>A proposed Modification that, if implemented,</p> <ul style="list-style-type: none">(a) is unlikely to have a material effect on:<ul style="list-style-type: none">(i) existing or future electricity consumers; and(ii) competition in the generation, storage, distribution, or supply of electricity or any commercial activities connected with the generation, storage, distribution or supply of electricity; and(iii) the operation of the National Electricity Transmission System; and(iv) matters relating to sustainable development, safety or security of supply, or the management of market or network emergencies; and(v) the Grid Code's governance procedures or the Grid Code's modification procedures, and(b) is unlikely to discriminate between different classes of Users.(c) other than where the modification meets the Fast Track Criteria, will not constitute an amendment to the Regulated Sections of the Grid Code.
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GC0175 – the asks of the Panel

- AGREE** that this Modification has a clearly defined defect, scope and solution
- AGREE** that this Modification meets the Self-Governance Criteria (Panel decision) rather than Standard Governance (Ofgem decision)
- AGREE** that this Modification should proceed to Code Administrator Consultation
- NOTE** that there appear to be impacts on the Electricity Balancing Regulation (EBR) Article 18 terms and conditions held within the Grid Code

Inflight Modification Updates

Sarah Carter, Code Administrator



GC0164: Simplification of Operating Code No.2

Timeline Update

	Workgroup Report issued to Panel	DSGFMR issued to Panel	FSGMR Appeals Window	Implementation Date
Previous timeline	16 October 2024	04 December 2024	02 - 23 January 2025	30 January 2025
New timeline	21 November 2024	23 January 2025	14 February – 14 March 2025	21 March 2025

Rationale: Engagement from the wider industry is required to meet Terms of Reference along with further assessment of the legal text and Workgroup Report

Workgroups Remaining: 2

Ask of Panel: Agree revised timeline



GC0168: Submission of Electro Magnetic Transient (EMT) Models Timeline Update

	Workgroup Report issued to Panel	DFMR issued to Panel	FMR issued to Ofgem	Implementation Date
Previous timeline	20 November 2024	22 January 2025	13 February 2025	TBC
New timeline	14 May 2025	16 July 2025	07 August 2025	TBC

Rationale: Workgroup meetings started later than expected, therefore all dates have been moved out

Workgroups Remaining: 7

Ask of Panel: Agree revised timeline

GC0168: Submission of Electro Magnetic Transient (EMT) Models

Request to change Terms of Reference

The Workgroup would like reflect the following within their Terms of Reference:

Additional Workgroup Terms of Reference

Consider if we are reflecting international practice including observation of the modelling developments proposed for RfG 2.0 and HVDC 2.0

GC0168 - the asks of Panel

- **AGREE** the additional point within Terms of Reference

Panel Tracker

Sarah Carter, Code Administrator

Prioritisation Stack

Mod Number	Previous Priority No:	Priority No	Title
GC0159	(1 before 2nd CAC)	(1 before 2nd CAC)	Introducing Competitively Appointed Transmission Owners
GC0139	1	1	Enhanced Planning Data Exchange to Facilitate Whole System Planning
GC0155	2	2	Clarification of Fault Ride Through Technical Requirements
GC0166	3	3	Introducing new Balancing Programme Parameters for Limited Duration Assets
GC0168	4	4	Submission of Electro Magnetic Transient (EMT) Models
GC0174	5	5	Removal of obligation to provide EU Transparency Availability Data as specified in OC2.4.7
GC0169	6	6	Material changes identified from Grid Code Modification GC0136 and Consistency of requirements between the Connection Conditions and European Connection Conditions
GC0173	6	6	Consistency of Technical and Compliance Requirements between GB and European Users
GC0164	7	7	Simplification of Operating Code No.2
GC0103	8	8	The introduction of harmonised Applicable Electrical Standards in GB to ensure compliance with the EU Connection Codes
GC0140	9	9	Grid Code Sandbox: enabling derogation from certain obligations to support small-scale trials of innovative propositions

Section GR3.2 (b) Without prejudice, the Grid Code Review Panel shall endeavour at all times to operate. (i) in an efficient, economical and expeditious manner, taking account of the complexity, importance and urgency of particular Grid Code Modification Proposals. (ii) and with a view to ensuring that the Grid Code facilitates achievement of the Grid Code Objectives.

Complexity	The defect addressed by the proposed has implications for many different areas of the energy system which need to be taken into consideration throughout the process. The technical complexity and cross code impact of the modification will most likely require significant use of industry time and a higher than average number of workgroups to conclude the process.
Importance	The perceived value & risk associated with the proposed modification. The value / risk could be considered from a number of different perspectives i.e. financial / regulatory / licence obligations both directly for customer and end consumers more generally.
Urgency	A proposed modification which requires speedy consideration within the code governance process, as well as the timescales for implementation within the respective code.

Grid Code Development Forum – Previous and Next

2 October 2024

Proposed Introduction of a Metering Polarity Standard to the Grid Code – (STCP19-3)

A presentation was shared to provide an overview of the current issues the NESO are experiencing in relation to Power Flow Metering Polarity with the opportunity to gain feedback on a proposed solution to address these issues prior to any formal code changes being raised.

Presentation: EDT Contingency Process – Update

Following the presentation at the November GCDF in relation to a trial NESO was undertaking with SSE to establish a contingency process for EDT data submission, an update was shared along with proposed changes to current Electrical Standard Documents and the introduction of a new Contingency Process Document.

Presentation: Fax Machine Replacement Programme - Update

An update was shared in relation to the Fax Machine Replacement Project which is seeking to remove interactions via Fax between Users and the Electricity National Control Centre. Proposed Grid Code changes will be presented at the October Grid Code Review Panel.

6 November 2024 (Deadline for Agenda items - 30 October)

Final Agenda items TBC

<https://www.neso.energy/industry-information/codes/grid-code-gc/grid-code-development-forum-gcdf>

Governance Update – EBR Update

Steve Wright, Process Flow

Standing Items

- Distribution Code Panel update (Alan Creighton)
- JESG Update (information only)

Previous meeting - 08 October 2024 [Meeting materials and Headline Report](#)

Next meeting - 12 November 2024

Updates on other industry codes

27 September 2024 CUSC [Panel Papers and Headline Report](#)

26 September 2024 Grid Code Review [Panel Papers and Headline Report](#)

11 September 2024 SQSS [Panel Papers and Headline Report](#)

25 September 2024 STC [Panel Papers and Headline Report](#)

Electrical Standards Documents Update

- Following feedback from panel members, the Electrical Standards documents will need more extensive updates than originally anticipated.
- Panel members are still waiting to receive one of the documents due to the file size and issues with SharePoint.
- There will not have been sufficient time to review before a decision can be made at the October GCRP.
- A more significant update will be targeted for the November GCRP.

Electrical Standards – Update to EDL Instruction Interface

Valid Reason Codes

Milestone	Date
Update to EDL Instruction Interface Valid Reason Codes presented to Panel	26 September 2024
Panel Review (20 Business Days)	24 October 2024 (5pm)
Implementation Date (if no comments received)	07 November 2024

Electrical Standards – the asks of Panel

- **FEEDBACK** any comments before 5pm on 24 October 2024

Code Administrator Update

Digitalisation Update – Charlotte Walker

Election Update – Sarah Carter

Any Other Business

[GC0103: The introduction of harmonised Applicable Electrical Standards in GB to ensure compliance with the EU Connection Codes](#)

Frank Kasibante

Activities ahead of the next Panel Meeting

Grid Code Development Forum	06 November 2024
Modification Proposal Deadline for Month Panel	13 November 2024
Papers Day	20 November 2024
Panel Meeting	28 November 2024 Teams

Close

Trisha McAuley
Independent Chair, Grid
Code Review Panel