

Combined Grid Code / Distribution Code Workgroup Terms of Reference and Membership

GC0156: Combined Grid Code/Distribution Code Workgroup - Facilitating the Implementation of the Electricity System Restoration Standard

Responsibilities

1. The combined Workgroup is responsible for assisting the Grid Code Review Panel and Distribution Code Review Panel in the evaluation of this Grid Code and Distribution Code Modification Proposal **Facilitating the Implementation of the Electricity System Restoration Standard** raised by **Sade Adenola** and **Tony Johnson** of the **Electricity System Operator (ESO)** at the Panel meeting on **24 February 2022**. The proposal must be evaluated to consider whether it better facilitates achievement of the Applicable Grid Code and Distribution Code Objectives.

Applicable Grid Code Objectives

- i) To permit the development, maintenance and operation of an efficient, coordinated and economical system for the transmission of electricity;
- ii) To facilitate competition in the generation and supply of electricity (and without limiting the foregoing, to facilitate the national electricity transmission system being made available to persons authorised to supply or generate electricity on terms which neither prevent nor restrict competition in the supply or generation of electricity);
- iii) Subject to sub-paragraphs (i) and (ii), to promote the security and efficiency of the electricity generation, transmission and distribution systems in the national; and
- iv) To efficiently discharge the obligations imposed upon the licensee by this licence and to comply with the Electricity Regulation and any relevant legally binding decisions of the European Commission and/or the Agency. In conducting its business, the Workgroup will at all times endeavour to operate in a manner that is consistent with the Code Administration Code of Practice principles.
- v) To promote efficiency in the implementation and administration of the Grid Code arrangements.

Applicable Distribution Code Objectives

- i) permit the development, maintenance, and operation of an efficient, co-ordinated, and economical system for the distribution of electricity; and
- ii) facilitate competition in the generation and supply of electricity; and
- iii) efficiently discharge the obligations imposed upon distribution licensees by the distribution licences and comply with the Regulation and any relevant legally binding decision of the European Commission and/or the Agency for the Co-operation of Energy Regulators; and

- iv) (promote efficiency in the implementation and administration of the Distribution Code.

Scope of work

2. The Workgroup must consider the issues raised by the Modification Proposal and consider if the proposal identified better facilitates achievement of the Grid Code and Distribution Code Objectives.
3. In addition, the Workgroup shall consider and report on the following specific issues:

Workgroup Term of Reference	Location in Workgroup Report (to be completed at Workgroup Report stage)
a) Implementation and costs	"Workgroup Consideration" section
b) Review draft legal text should have been provided. If legal text is not submitted within the Modification Proposal the Workgroup should be instructed to assist in the developing of the legal text	"Workgroup Consultation Summary" section & "Legal Text" section
c) Consider whether any further Industry experts or stakeholders should be invited to participate within the Workgroup to ensure that all potentially affected stakeholders have the opportunity to be represented in the Workgroup. Demonstrate what has been done to cover this clearly in the report	"Workgroup Consideration" section
d) Consider EBR & ENCR implications	"Interactions" section
e) Consider the following elements: <ol style="list-style-type: none"> (i) Updating references in the Grid Code from "Black Start" to "Electricity System Restoration". (ii) Review the ESRS requirements as established by NGESO (in conjunction with the ESRS Steering Group), and as provided to the GC0156 group, to clarify whether: <ul style="list-style-type: none"> • the requirement to restore transmission 'demand' is unambiguously understood; • the requirement to restore '60% and 100%' of transmission demand is unambiguously understood; • there is an unambiguous understanding of the time related requirements; and • there is an unambiguous understanding of the term 'region', Understand, consider and develop requirements such that the necessary changes can be made in the Grid Code and Distribution Code to facilitate the 	"Workgroup Consideration" section

implementation of the Electricity System Restoration Standard as directed by BEIS in Special Condition 2.2 of National Grid Electricity System Operator's Transmission Licence.

- (iii) The workgroup considers and develops the necessary changes that can be made in the Grid Code and Distribution Code to facilitate the implementation of NGENO's interpretation of the Electricity System Restoration Standard as directed by BEIS in Special Condition 2.2 of National Grid Electricity System Operator's Transmission Licence. (i.e. 60% of Transmission Demand to be restored within 24 hours (all regions) and 100% of Transmission Demand within 5 days with the assumption that the Transmission System is in an operable state.)
- (iv) Consider any feedback from the ESRS Steering Group in the solution and Final Workgroup Report.
- (v) Ensuring measures are put in place in the Grid Code to facilitate the requirements of the ESRS (60% of Transmission Demand to be restored within 24 hours (all regions) and 100% of Transmission Demand within 5 days) with the assumption that the Transmission System is in an operable state.
- (vi) Build on the proposed solutions set out in other Grid Code modifications such as GC0148 (Implementation of Emergency and Restoration Code Phase II) and other developments such as the Distributed ReStart NIC project to achieve the requirements of the Electricity Restoration Standard.

- (vii) Consider what changes if necessary are required to the System Restoration Plan and Test Plan.
- (viii) As part of this modification, take the opportunity to undertake a minor housekeeping correction to OC5.7.1(b)(i) that needs to be addressed following an error arising from the implementation of Grid Code modification GC0108 (EU Code: Emergency & Restoration: Black start testing requirement).
- (ix) Review the findings of the seven ESRS workstreams to assess what information from those workstreams is relevant to the Grid Code and this Workgroup.
- (x) Consider the need to update any associated RES documents, and whether such information should be included in the Grid Code.
- (xi) Clarify the obligations and implications for Restoration Service Providers and other Users (Grid Code and Distribution Code) of meeting the ESRS.
- (xii) Consider what the impact of a Fault Ride Through event as the cause (or suspected cause) of the national power outage, will be in terms of compliance with GC0151 and GC0155.
- (xiii) Consider any relevant recommendations from other workgroups and E3C which would have an impact on the ESRS.

f) Consider revisions and updates to the legal text of the Distribution Code and G99.	“Legal Text” section & Annex 19
g) Ensure that the solution developed for this GC0156 modification takes into account the findings (to date) of the relevant Workstreams as detailed in Appendix 1 of these Terms of Reference.	“Workgroup Consideration” section
h) Consider any other cross codes impacts.	“Workgroup Consideration” section

4. As per Grid Code GR20.8 (a) and (b) the Workgroup should seek clarification and guidance from the Grid Code Review Panel when appropriate and required.
5. The Workgroup is responsible for the formulation and evaluation of any Workgroup Alternative Grid Code Modifications arising from Group discussions which would, as compared with the Modification Proposal or the current version of the Grid Code, better facilitate achieving the Grid Code Objectives in relation to the issue or defect identified.
6. The Workgroup should become conversant with the definition of Workgroup Alternative Grid Code Modification which appears in the Governance Rules of the Grid Code. The definition entitles the Group and/or an individual member of the Workgroup to put forward a Workgroup Alternative Code Modification proposal if the member(s) genuinely believes the alternative proposal compared with the Modification Proposal or the current version of the Grid Code better facilitates the Grid Code objectives. The extent of the support for the Modification Proposal or any Workgroup Alternative Modification (WAGCM) proposal arising from the Workgroup’s discussions should be clearly described in the final Workgroup Report to the Grid Code Review Panel.
7. Workgroup members should be mindful of efficiency and propose the fewest number of WAGCM proposals as possible. All new alternative proposals need to be proposed using the Alternative Request Proposal form ensuring a reliable source of information for the Workgroup, Panel, Industry participants and the Authority.

8. All WAGCM proposals should include the Proposer(s)'s details within the final Workgroup report, for the avoidance of doubt this includes WAGCM proposals which are proposed by the entire Workgroup or subset of members.
9. There is an option for the Workgroup to undertake a period of Consultation in accordance with Grid Code GR. 20.11, if defined within the timetable agreed by the Grid Code Panel. Should the Workgroup determine that they see the benefit in a Workgroup Consultation being issued they can recommend this to the Grid Code Review Panel to consider.
10. Following the Consultation period the Workgroup is required to consider all responses including any Workgroup Consultation Alternative Requests. In undertaking an assessment of any Workgroup Consultation Alternative Request, the Workgroup should consider whether it better facilitates the Grid Code Objectives than the current version of the Grid Code.
11. As appropriate, the Workgroup will be required to undertake any further analysis and update the appropriate sections of the original Modification Proposal and/or WAGCM proposals (Workgroup members cannot amend the original text submitted by the Proposer of the modification). All responses including any Workgroup Consultation Alternative Requests shall be included within the final report including a summary of the Workgroup's deliberations and conclusions. The report should make it clear where and why the Workgroup chairman has exercised their right under the Grid Code to progress a Workgroup Consultation Alternative Request or a WAGCM proposal against the majority views of Workgroup members. It should also be explicitly stated where, under these circumstances, the Workgroup chairman is employed by the same organisation who submitted the Workgroup Consultation Alternative Request.
12. The Workgroup is to submit its final report to the Modifications Panel Secretary on **23 March 2023** for circulation to Panel Members. The final report conclusions will be presented to the Grid Code Review Panel meeting on **30 March 2023**.

Membership

13. It is recommended that the Workgroup has the following members:

Role	Name	Representing
Chair	Banke John-Okwesa	Code Administrator (ESO)
Technical Secretary	Milly Lewis	Code Administrator (ESO)

Proposer	Antony Johnson & Sade Adenola	ESO
Workgroup Member	Abdi Osman	NGV Interconnectors
Workgroup Member (Alternate)	Alan Creighton	Northern Powergrid
Workgroup Member	Alastair Frew	Drax Power Station
Workgroup Member	Andrew McLeod	Northern Powergrid
Workgroup Member	Andrew Larkins	Sygensys
Workgroup Member	Andrew Vaudin	EDF Energy
Workgroup Member	Bill D'Albertanson	UK Power Networks
Workgroup Member	Brad Kent	NGET
Workgroup Member	Brian Morrissey	SSEN Distribution
Workgroup Member	Cefin Parry	Northern Powergrid
Workgroup Member (Alternate)	Chanditha Udalagama	NGV Interconnectors
Workgroup Member	Daniel Randles	Electricity North West Ltd
Workgroup Member	David Adam	SP Energy Networks
Workgroup Member	Eric Leavy	SP Energy Networks
Workgroup Member	Garth Graham	SSE Generation
Workgroup Member (Alternate)	Gavin Anderson	Electricity North West Ltd
Workgroup Member	Graeme Vincent	SP Energy Networks
Workgroup Member	Grace March	Sembcorp
Workgroup Member	Graz Macdonald	Waters Wye
Workgroup Member	Gwyn Jones	Western Power Distribution
Workgroup Member	Howard Downey	SP Energy Networks
Workgroup Member (Alternate)	John Costa	EDF Energy

Workgroup Member (Alternate)	Lewis Morgan	NGET
Workgroup Member (Alternate)	Lisa Waters	Waters Wye

Workgroup Member (Alternate)	Mark Holland	Scottish & Southern Electricity Networks
Workgroup Member	Michelle Macdonald	Scottish & Southern Electricity Networks
Distribution Code Admin Representative	Mike Kay	Distribution Code Admin
Workgroup Member	Neil Sandison	Scottish & Southern Electricity Networks
Workgroup Member	Nikhil Singh	NGET
Workgroup Member (Alternate)	Paul Youngman	Drax Power Station
Workgroup Member	Peter Couch	Joint Radio Company Limited
Workgroup Member	Priyanka Mohapatra	Scottish Power
Workgroup Member	Richard Poole	National Grid Ventures
Workgroup Member	Robert Longden	Eneco Energy Trade BV
Workgroup Member (Alternate)	Ross Strachan	Scottish Power
Workgroup Member	Tolu Esan	Electricity North West Ltd
Authority Representative	Christopher Statham	Ofgem
Authority Representative	Shilen Shah	Ofgem

14. A (*) Workgroup must comprise at least 3 members (who may be Panel Members). The roles identified with an asterisk (*) in the table above contribute toward the required quorum, determined in accordance with paragraph 15 below.
15. The Grid Code Review Panel must agree a number that will be quorum for each Workgroup meeting. The agreed figure for this modification is that at least 3 Workgroup members must participate in a meeting for quorum to be met.
14. A vote is to take place by all eligible Workgroup members on the Modification Proposal and each WAGCM. The vote shall be decided by simple majority of those present at the meeting at which the vote takes place (whether in person or by teleconference). The Workgroup chairman shall not have a vote, casting or otherwise. There may be up to three rounds of voting, as follows:
- Vote 1:** whether each proposal better facilitates the Applicable Grid Code Objectives;

Vote 2: where one or more WAGCMs exist, whether each WAGCM better facilitates the Applicable Grid Code Objectives than the original Modification Proposal;

Vote 3: which option is considered to BEST facilitate achievement of the Applicable Grid Code Objectives. For the avoidance of doubt, this vote should include the existing Grid Code baseline as an option.

The results from the vote and the reasons for such voting shall be recorded in the Workgroup report in as much detail as practicable.

17. It is expected that Workgroup members would only abstain from voting under limited circumstances, for example where a member feels that a proposal has been insufficiently developed. Where a member has such concerns, they should raise these with the Workgroup chairman at the earliest possible opportunity and certainly before the Workgroup vote takes place. Where abstention occurs, the reason should be recorded in the Workgroup report.
18. Workgroup members or their appointed alternate are required to attend a minimum of 50% of the Workgroup meetings to be eligible to participate in the Workgroup vote.
19. The Technical Secretary shall keep an Attendance Record for the Workgroup meetings and circulate the Attendance Record with the Action Notes after each meeting. This will be attached to the final Workgroup report.
20. The Workgroup membership can be amended from time to time by the Grid Code Review Panel and the Chairman of the Workgroup.

APPENDIX 1 – WORKSTREAM INPUT

Prior to the formal submission of this modification to the Grid Code and Distribution Code Review Panel in February 2022, National Grid ESO established seven workstreams to start developing the initial thinking behind how key elements of all aspects of the Electricity System Restoration Standard would work.

The seven workstreams already established under the ESRS are:-

- Future Networks
- Compliance Activities
- Modelling & Restoration Tool
- Communications Infrastructure
- Regulatory Frameworks
- Markets and Funding Mechanism
- Technology and Locational Diversity

These seven workstreams have specific Terms of Reference but no formal Governance unlike the Code Panels (e.g CUSC, BSC, Grid Code, SQSS, STC and Distribution Code Panels). It is proposed that the work streams feeding into the GC0156 Workgroup are disbanded when the GC0156 Workgroup is established and when nominations are sought for the GC0156 Workgroup, they are forwarded to all those members who have been on these working groups. The working assumption is that the relevant ESRS working groups are disbanded and potentially re-established with new terms of reference as subgroups under the GC0156 Workgroup. The findings do date from the disbanded Workgroups will be provided to the GC0156 Workgroup.

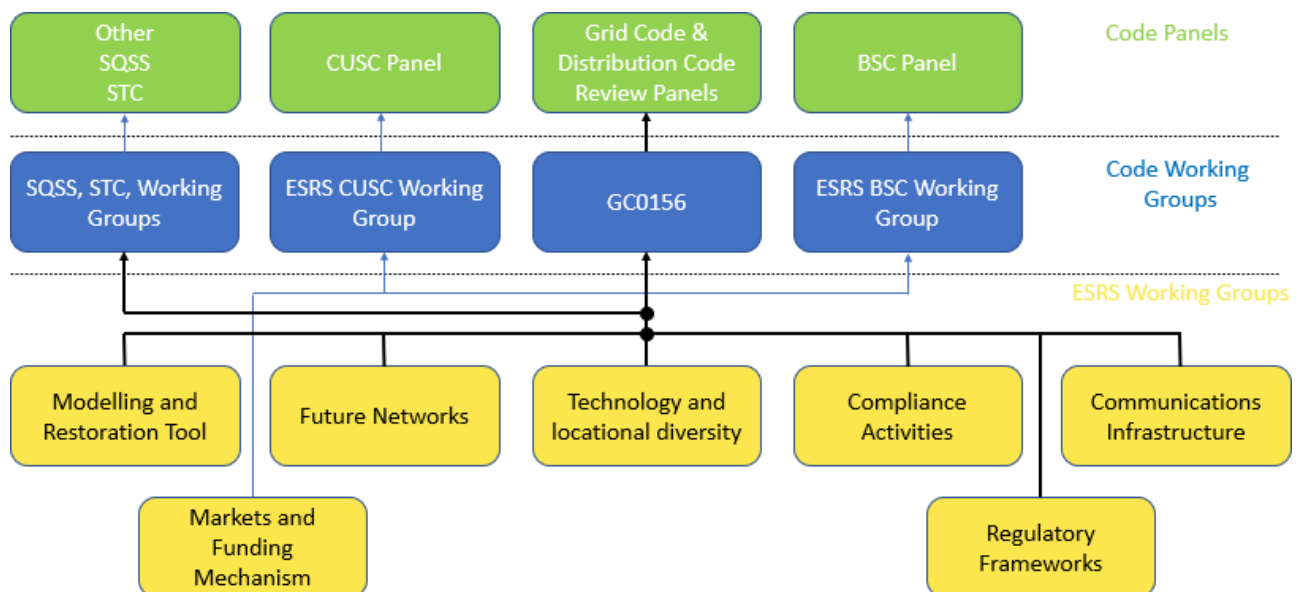


Figure 1.0

Where a recommendation has been created by one of the remaining ESRS Working Groups (ie one of the Working groups identified in yellow that is not feeding into GC0156), it will be fed to the ESRS ESO Project delivery team for further assessment and industry engagement.