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 Electricity System Restoration Standard** raised by **Sade Adenola** and **Tony Johnson** of the **National Grid Electricity System Operator (NGESO)** 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.

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	
b) Review draft legal text should it 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	
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	
d) Consider EBGL implications	
e) Consider the following elements: (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: • the requirement to restore 'demand' is unambiguously understood; • the requirement to restore '60% and 100%' of 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 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 NGESO'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 Demand to be restored within 24 hours (all regions) and 100% of Demand within 5 days with the assumption that the Total 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 Demand to be restored within 24 hours (all regions) and 100% of Demand within 5 days) with the assumption that the Total 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. In addition, 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.	
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.	
h) Consider any other cross codes impacts.	

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 WAGCM 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 **XX Month XXXX** for circulation to Panel Members. The final report conclusions will be presented to the Grid Code Review Panel meeting on **XX Month XXXX**.

Membership

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

Role	Name	Representing
Chair	**Banke John-Okwesa**	**Code Administrator (ESO)**
Technical Secretary	**Ruth Roberts**	**Code Administrator (ESO)**
Proposer	**Antony Johnson & Sade Adenola**	**NGESO**
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**
Observer	**Audrey Ramsey**	**NGESO**
Workgroup Member (Alternate)	**Brad Kent**	**NGET**
Workgroup Member	**Brian Morrissey**	**SSE**
Workgroup Member	**Cefin Parry**	**Northern Powergrid**
Workgroup Member (Alternate)	**Chanditha Udalagama**	**NGV Interconnectors**
Workgroup Member	**Colin Foote**	**SP Energy Networks**
Workgroup Member	**David Adam**	**SP Energy Networks**
Workgroup Member	**Dozie Nnabuife**	**NGESO**
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 (Alternative)	**Lisa Waters**	**Waters Wye**
Observer	**Mark Bingham**	**NGET**
Observer	**Mark Holland**	**Scottish & Southern Electricity Networks**

Observer	**Mark Jones**	**NGESO**
Workgroup Member	**Michelle Macdonald**	**Scottish & Southern Electricity Networks**
Observer	**Mike Kay**	**N/A**
Observer	**Neha Gupta**	**NGESO**
Observer	**Neil Sandison**	**Scottish & Southern Electricity Networks Transmissions**
Workgroup Member	**Nikhil Singh**	**NGET**
Observer	**Paul Murray**	**Scottish & Southern Electricity Networks**
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**
Observer	**Toktam Sharifian**	**KREC**
Workgroup Member	**Tolu Esan**	**Electricity North West Ltd**
Authority Representative	**Christopher Statham**	**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.

16. 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 (eg 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.

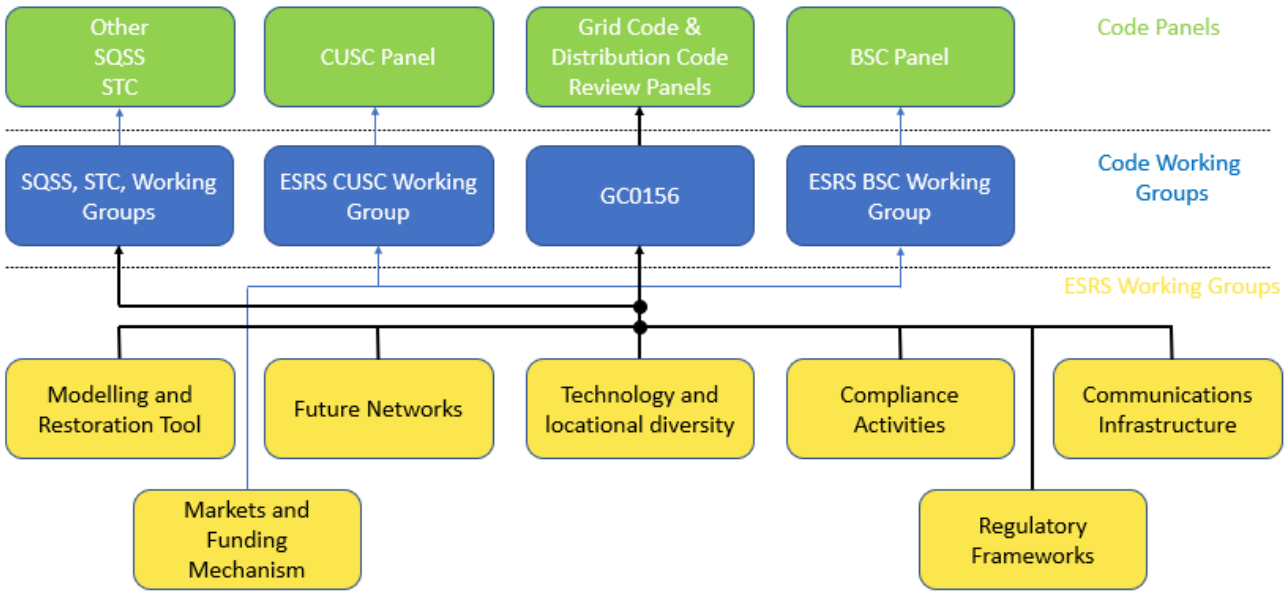

Figure 1.0

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.