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Grid Code Modification Proposal Form

GC0169:

Material changes identified from Grid Code Modification GC0136 and Consistency of requirements between the Connection Conditions and European Connection Conditions

Overview: This modification is designed to address i) a number of appropriate non specialist changes identified following Grid Code Modification GC0136: Non-material changes to the Grid Code following implementation of the EU Connection Codes and ii) alignment in the requirements between the Connection Conditions and European Connection Conditions and interactions with the European Compliance Processes.

Modification process & timetable

1. **Proposal Form**
   06 March 2024
2. **Workgroup Consultation**
   13 August 2024 - 04 September 2024
3. **Workgroup Report**
   24 October 2024
4. **Code Administrator Consultation**
   29 October 2024 - 29 November 2024
5. **Draft Final Modification Report**
   15 January 2025
6. **Final Modification Report**
   06 February 2025
7. **Implementation**
   10 working days after decision

Status summary: The Proposer has raised a modification and is seeking a decision from the Panel on the governance route. The Proposer would recommend the Standard Governance route is adopted.

This modification is expected to have a: Medium impact

The ESO, Grid Code Users, Transmission Licensees

Modification drivers: Efficiency, Governance and Transparency

Proposer's recommendation of governance route	Standard Governance modification with assessment by a Workgroup	
Who can I talk to about the change?	**Proposer:** Antony Johnson Antony.Johnson@nationalgrideso.com 07966 734856	**Code Administrator Contact:** Lizzie Timmins Elizabeth.timmins@nationalgrideso.com

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What is the issue?

There are two issues which are driving this modification. They both revolve around improving the consistency and clarity of the Grid Code. These include the following elements:-

i) General corrections arising from the non specialist issues identified outside the scope of Grid Code modification GC0136: Non-material changes to the Grid Code following implementation of the EU Connection Codes.

ii) Alignment / Clarifications between the Connection Conditions and European Connection Conditions and interactions with the European Compliance Processes.

Why change?

The change is necessary to ensure consistency and clarity of the Grid Code.

What is the proposer's solution?

The Proposers Solution comprises two parts:-

i) Address the non specialist issues raised following Grid Code modification GC0136. These are detailed in Annex 1 of this proposal form but in summary include the following elements:-

a. Glossary and Definitions - Caution Notice / Consistency of SI units / Interconnector Scheduled Transfer / Intraday Cross-Zonal Gate Closure Time
b. Change Grid Code references of SHETL to SHET
c. OC9.6.4 – Requires more work in formulation and to ensure the action is clear
d. BC2.13 – Interconnector Scheduled Transfer / Intraday Cross-Zonal Gate Closure Time / relationship with Glossary and Definitions
e. Ensure consistency between Grid Code and G99
f. General Conditions - Re-word Paragraph GC.5.2 and GC5.4 and confirm if clauses GC11.2 and GC15.1 can be simplified

ii) Ensure consistency between the Connection Conditions, European Connection Conditions and European Compliance Processes whilst ensuring Compliance with the European Connection Network Codes (ie RfG, DCC and HVDC). In summary this includes:-

a. Propose to remove thermal storage technologies in PC.A.3.4.1 eg Latent Heat Storage, Thermochemical Storage and Sensible Heat Storage
b. CC/ECC3.3.2 – Change GB Generator and EU Generator to Embedded Medium Power Station not subject to a Bilateral Agreement
c. Frequency Sensitive Relays CC/ECC.6.3.13
d. CC.6.3.12 prohibits the use of rate of change of frequency relays which was not carried over into the ECC's when RfG was implemented.
e. Clarification required between CC/ECC.8.1 - CC.8.1 defines Ancillary Services requirements in terms of Large and Medium Power Stations and ECC.8.1 defines the requirements in terms of Type C and Type D Power Generating Modules.
f. Amend ECC.8.1 (c) as it is contradicts ECC.8.1 (a) for directly connected Medium Power Stations.
g. Clarification for Embedded Medium Power Stations (BEGAs) defining the requirement for an MSA other than in respect of Embedded Small Power Stations
h. ECP.A.6.4 and ECP.A.6.2 - correct ECC References
i. ECP.A.6.8.1 Reword to improve clarity.

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Draft legal text

The Legal text will be developed as part of the Workgroup.

The high level sections of the Grid Code legal text that need to be changed are included in the “Proposers Solution” above.

What is the impact of this change?

Proposer’s assessment against Grid Code Objectives	
Relevant Objective	**Identified impact**
(a) To permit the development, maintenance and operation of an efficient, coordinated and economical system for the transmission of electricity	**Neutral** By clarifying the Grid Code as indicated in the Proposers solution, it will improve clarity. This is marginally seen as positive overall but generally considered neutral in respect of this Grid Code objective.
(b) Facilitating effective 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);	**Neutral** By clarifying the Grid Code as indicated in the Proposers solution, it will improve clarity. This is marginally seen as positive overall from a competition perspective but generally considered neutral in respect of this Grid Code objective.
(c) Subject to sub-paragraphs (i) and (ii), to promote the security and efficiency of the electricity generation, transmission and distribution systems in the national electricity transmission system operator area taken as a whole;	**Neutral** By clarifying the Grid Code as indicated in the Proposers solution, it will improve clarity. This is marginally seen as positive overall but generally considered neutral in respect of this Grid Code objective.
(d) To efficiently discharge the obligations imposed upon the licensee by this license and to comply with the Electricity	**Positive** As the ESO is responsible for Administration of the

Regulation and any relevant legally binding decisions of the European Commission and/or the Agency; and	Grid Code, improving clarity is a key objective and therefore we see this modification positive in respect of this Grid Code objective.
(e) To promote efficiency in the implementation and administration of the Grid Code arrangements	**Positive** As the ESO is responsible for Administration of the Grid Code, improving clarity is a key objective and therefore we see this modification positive in respect of this Grid Code objective.

Proposer's assessment of the impact of the modification on the stakeholder / consumer benefit categories	
Stakeholder / consumer benefit categories	**Identified impact**
Improved safety and reliability of the system	**Neutral** This modification will improve clarity and ensure consistency between GB Code Users (ie pre European Connection Network Codes) and EU Code Users (ie post European Connection Network Codes). Whilst not having a direct impact on improved safety and reliability of the System, it will improve clarity which we overall see as positive.
Lower bills than would otherwise be the case	**Neutral** There will be no impact to lower bills as a result of this modification.
Benefits for society as a whole	**Positive** The Grid Code is a complex document running to many pages. Any change which improves clarity to Stakeholders and User's is only seen as positive.
Reduced environmental damage	**Neutral** There will be no impact to environmental damage as a result of this modification.
Improved quality of service	**Positive** The Grid Code is a complex document running to many pages. Any change which improves clarity to Stakeholders and User's and hence the quality of service they receive is only seen as positive.

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When will this change take place?

Implementation date
10 working days after an Authority decision.

Date decision required by
There is no specific back stop date required for this modification. However the Workgroup should aim to complete this modification in a timely manner. We can expect to submit the final modification report to Ofgem in Q1 2025.

Implementation approach
At this time, there are no systems or processes envisaged to be impacted as a result of this change.

Proposer's justification for governance route
Governance route: Standard Governance modification with assessment by a Workgroup.

The issues identified as part of this modification are of a material nature which require assessment and scrutiny by the wider industry. We therefore recommend that the Standard Governance route is adopted which will result in Workgroup assessment and a subsequent Consultation.

Interactions

☐CUSC	☐BSC	☐STC	☐SQSS
☐European Network Codes	☐ EBR Article 18 T&Cs[1]	☐Other modifications	☒Other

Distribution Code

It would be an advantage for members of the GC0169 Workgroup to have some experience of Grid Code modification GC0136 and Engineering Recommendation G99. As this modification has some overlap with Engineering Recommendation G99, it is proposed this Workgroup should be considered as a combined Grid Code / Distribution Code Working Group.

Acronyms, key terms and reference material

Acronym / key term	Meaning
BSC	Balancing and Settlement Code
CUSC	Connection and Use of System Code
DCC	Demand Connection Code Network Code (Commission Regulation (EU) 2016/1388)
EBR	Electricity Balancing Regulation
GC	Grid Code
G99	Engineering Recommendation G99 - Requirements for the connection of generation equipment in parallel with public distribution networks on or after 27 April 2019

[1] If your modification amends any of the clauses mapped out in Annex GR.B of the Governance Rules section of the Grid Code, it will change the Terms & Conditions relating to Balancing Service Providers. The modification will need to follow the process set out in Article 18 of the Electricity Balancing Regulation (EBR – EU Regulation 2017/2195). All Grid Code modifications must be consulted on for 1 month in the Code Administrator Consultation phase, unless they are Urgent modifications which have no impact on EBR Article 18 T&Cs. N.B. This will also satisfy the requirements of the NCER process.

HVDC	High Voltage DC Network Code (Commission Regulation (EU) 2016/1447)
RfG	Requirements for Generators Network Code (Commission Regulation (EU) 2016/631)
SHET	Scottish Hydro-Electric Transmission
SHETL	Scottish Hydro-Electric Transmission Limited
SI Unit	International System of Units
STC	System Operator Transmission Owner Code
SQSS	Security and Quality of Supply Standards
TERRE	Trans European Replacement Reserve Exchange (TERRE) European project to implement a Replacement Reserve (RR) balancing product
T&Cs	Terms and Conditions

Reference material

- Annex 1 – Summary of changes Post GC0136 falling within the scope of Grid Code Modification GC0169