

## Grid Code Alternative Form

# GC0117 Alternative Request 1: Improving transparency and consistency of access arrangements across GB by the creation of pan-GB commonality PGM requirements

**Overview:** This proposed alternative is the same as the original proposal but instead of proposing a Small – Large Power Station categorisation boundary of 10MW across all GB, this alternative proposes to retain the existing Small, Medium and Large Power Station categorisation in England and Wales and to extend this to Scotland.

**Proposer:** Alan Creighton, Northern Powergrid.

## Guidance for Alternative Proposers

**Who can raise an Alternative?** Any CUSC or BSC Party, or Citizens Advice can raise an Alternative Request in response to the Workgroup Consultation.

### **How do Alternative Requests become formal Workgroup Alternative Modifications?**

The Workgroup will carry out a Vote on Alternatives Requests. If the majority of the Workgroup members or the Workgroup Chair believe the Alternative Request will better facilitate the Applicable Objectives than the current version of the Code, the Workgroup will develop it as a Workgroup Alternative Modification.

**Who develops the legal text for Alternatives?** ESO will develop the Legal text for all Workgroup Alternative Modifications and will liaise with the Alternative Proposer to do so.

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## What is the proposed alternative solution?

The original proposal seeks to rationalise the existing GB arrangements for the connection of new Power Stations, such that there is a common definition of Small, Medium (where appropriate) and Large Power Stations. The original proposal sets out six possible options, and whilst not explicit in the original proposal, it is understood that the original proposer's preferred solution is option one ie 'Applying the present 'North of Scotland' threshold of 10 MW in the 'South of Scotland' and England & Wales'.

This alternative is to put forward a solution, which is similar to option three in the original proposal i.e. to retain the existing Small, Medium and Large Power Station categorisation in England and Wales and to extend this to Scotland.

This alternative solution would require changes to similar parts of the Grid Code as the original proposal.

## What is the difference between this and the Original Proposal?

The original proposal is for a single Small – Large Power Station categorisation threshold of 10MW across all of GB. This alternative proposal is to apply the present England & Wales categorisation thresholds, Small – Medium threshold of 50 MW and Medium – Large threshold of 100MW, across all of GB.

This alternative proposal would address the defect identified in the original proposal which is that 'the Grid Code does not currently apply a consistency of access arrangements across GB and, as such, does not assist the creation of a pan-GB market for power generating module (PGM) technology, by increasing the commonality of PGM requirements.'

## What is the impact of this change?

This alternative proposal aims to address the defect addressed in the original proposal, to minimise the implications for the majority of existing and future new Power Stations, and to pave the way to implement the emerging and evolving thinking from the ENA Open Networks work on the role of Distribution System Operators.

### Implications for a Power Station $\geq 10\text{MW}$ , $< 50\text{ MW}$ in England & Wales

Original Proposal	Alternative Proposal 1
1 The Generator would need to become Party to the CUSC	No change from present arrangements
2 The Generator would need to provide Control Telephony system and/or System Telephony	No change from present arrangements. The defect relates to harmonisation requirements across GB; NGENSO has not indicated that they require Control Telephony system and/or System Telephony for Small Power Stations in England and Wales.
3 The Generator would need to provide Electronic Data Communication Facilities which are necessary to communicate with the ESO for the purposes of participating in the Balancing Mechanism (these include facilities such as Electronic Data Transfer	No change from present arrangements. The emerging DSO thinking is that the DSO should collect, export data from generation connected to the distribution network so that it can utilise the data for its own needs and provide the data

(EDT), Electronic Despatch Logging (EDL) or (Application Protocol Interface (API) facilities	NGESO require to manage the system across ICCP links.
4 The Generator would need to provide data to NGESO for them to participate in the BM either as a BM Participant or as a Generating Unit which is referred to as scheduled data	No change from present arrangements. A Generator would retain the option to enter into a BEGA, and participate in the Balancing Mechanism, and hence be obligated to provide the required data.
5 The Generator would need to submit an annual data return (data relating to the electrical and fixed operational parameters of the Power Station) to NGESO as part of the Week 24 process.	No change from present arrangements. A Generator would not need to provide Week 24 data to NGESO.
6 The Generator would need to comply with some of the requirements in the Grid Code e.g. Connection Condition and compliance assessment. These could be implemented in the Distribution Code, or via reference from the Distribution Code. Following RfG implementation the technical requirements are connection conditions are generally harmonised, other than those related to control provision (2) and data provision (3, 4 & 5)	No change from present arrangements. Connection and compliance requirements would be set out in the Distribution Code.

### Implications for a Power Station $\geq 50\text{MW}$ , $< 100\text{ MW}$ in England & Wales

Original Proposal	Alternative Proposal 1
1 The Generator would need to become Party to the CUSC	No change from present arrangements
2 The Generator would need to provide Control Telephony system and/or System Telephony	No change from present arrangements. The defect relates to harmonisation requirements across GB; NGESO have not indicated that they require Control Telephony system and/or System Telephony for Medium Power Stations in England and Wales
3 The Generator would need to provide Electronic Data Communication Facilities which are necessary to communicate with the ESO for the purposes of participating in the Balancing Mechanism (these include facilities such as Electronic Data Transfer (EDT), Electronic Despatch Logging (EDL) or (Application Protocol Interface (API) facilities	No change from present arrangements. The emerging DSO thinking is that the DSO should collect, export data from generation connected to the distribution network so that it can utilise the data for its own needs and provide the data NGESO require to manage the system across ICCP links.
4 The Generator would need to provide data to NGESO for them to participate in the BM either as a BM Participant or as a Generating Unit which is referred to as scheduled data	No change from present arrangements. A Generator would retain the option to enter into a BEGA, and participate in the Balancing Mechanism, and hence be obligated to provide the required data.
5 The Generator would need to submit an annual data return (data relating to the	No change from present arrangements. A Generator would not need to provide

electrical and fixed operational parameters of the Power Station) to NGENSO as part of the Week 24 process.	Week 24 data to NGENSO.
6 The Generator would need to comply with some of the requirements in the Grid Code e.g. Connection Condition and compliance assessment. These could be implemented via the Distribution Code, or via reference from the Distribution Code as at present. Following RfG implementation the technical requirements are connection conditions are generally harmonised, other than those related to control provision (2) and data provision (3, 4 & 5)	No change from present arrangements. Connection and compliance requirements would be set out in the Distribution Code, although some of these point to the Grid Code and the compliance obligations are more onerous than those associated with Small Power Stations, but less onerous than those associated with Large Power Stations..

### Implications for a Power Station $\geq 10\text{MW}$ in SHE Transmission Area and for a Power Station $\geq 30\text{MW}$ in SHE Transmission Area

The detailed implications will need to be developed further by the GC0117 workgroup, however, in a Generator with a Power Station within this range will have fewer code obligations e.g., there would be no need to:

- enter into BELLA (or BEGA) agreement with NGENSO
- comply with the Grid Code (other than via the Distribution Code for LEEMPS)
- provide data directly to NGENSO

It is recognised that NGENSO may lose access to operational data from some Power Stations  $<100\text{MW}$ . There is a current debate<sup>1</sup> on the most efficient means of providing operational data to the parties that require it, including the DNOs and NGENSO. The original proposal states that it only relates to new connections, however application to existing Power Stations needs to be considered in more detail as it seems very likely that revised definitions of Large, Medium and Small would have implications in relation to other Grid Code obligations e.g. Operation Code and Planning Code where, unlike the Connection Conditions / European Connection Conditions there is not distinction between 'new' and 'existing' Power Stations.

There are two key areas, collection of operational data and NGENSO's ability to control Generating Units in Power Stations.

The existing data collection arrangements could be retained for existing connections until an enduring solution is implemented but an interim solution would be required (based on the assumption that NGENSO continue to require operational data from such Power Stations) for new connections.

Large Power Stations  $<100\text{MW}$  in Scotland are required to have a BELLA or BEGA agreement with NGENSO. The proforma CUSC BELLA only binds a Generator to BC1 and BC2 where NGENSO reasonably requires it. As part of the assessment of GC0117,

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<sup>1</sup> Ofgem Call for evidence: Visibility of distributed generation connected to the GB distribution networks. 04 August 2020.

there may be a need for NGENSO to review the need or otherwise for a Generator with a BELLA to comply with BC1 and BC2. BC1 relates to the provision of operational data. BC2 relates to issuing of instructions to Users to enable NGENSO to maintain the integrity of the National Electricity Transmission. A BELLA doesn't give a Generator any transmission access rights whilst a BEGA does (and hence creates an exposure to TNUoS charges where their TEC is >100MW).

<b>Proposer's Assessment against Grid Code Objectives</b>	
<b>Relevant Objective</b>	<b>Identified impact</b>
(a) To permit the development, maintenance and operation of an efficient, coordinated and economical system for the transmission of electricity	<b>Positive:</b> As original proposal
(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);	<b>Positive</b> As original proposal
(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;	<b>Positive</b> As original proposal
(d) To efficiently discharge the obligations imposed upon the licensee by this license and to comply with the Electricity Regulation and any relevant legally binding decisions of the European Commission and/or the Agency; and	<b>Positive</b> As original proposal
(e) To promote efficiency in the implementation and administration of the Grid Code arrangements	<b>Positive</b> As original proposal

### **When will this change take place?**

#### **Implementation date:**

This modification should be implemented as soon as is practicable.

#### **Implementation approach:**

To be agreed via the workgroup

**Acronyms, key terms and reference material**

Acronym / key term	Meaning
BEGA	Bilateral Embedded Generation Agreement
BELLA	Bilateral Exemptible Large Licence Exempt Generator Agreement
DSO	Distribution System Operator
NGESO	National Grid Electricity System Operator

**Reference material:**

- 1.