

# Grid Code Issue Paper

Paper Ref: Date Raised: 

## [For circulation to the Grid Code Review Panel](#)

**Raised by Honor Hynes on behalf of NGET**

**GB implementation workgroup for Transmission System Operation Guideline (TSOG) European Network Code**

**Before submitting this paper, did you present this issue to the [Grid Code Development Forum?](#)**

No  X Yes

*GCDF is a periodic meeting where stakeholders can discuss any Grid Code-related technical issues. It gives stakeholders the opportunity to fully understand their issues before raising them to the Panel. Click the link above for more info, including dates.*

## [<<PANEL RECOMMENDATION>>](#)

**What would you like the GCRP/DCRP to do? (Mark the appropriate box)**

Note the issue for information only	<input type="checkbox"/>
Consider the issue and provide guidance	<input type="checkbox"/>
Further investigate this issue at a one-off workshop <i>[Please consider GCDF if answered 'no' for question above]</i>	<input type="checkbox"/>
Approve this issue for a workgroup for further analysis and form solutions <i>[Please consider workgroup Terms of Reference and attendance at workgroup]</i>	<input checked="" type="checkbox"/>
Progress this issue straight to Industry Consultation <i>[Please contact the code administrator before proceeding (see details at the bottom)]</i>	<input type="checkbox"/>

## [<<DEFINE>>](#)

**Please describe your issue...**

The Electricity Transmission System Operation Guideline (TSOG) European Network Code received a positive vote by Member States at the Electricity Cross Border Committee on 4 May 2016 and therefore the network code has been adopted. The TSOG will now sit with the European Parliament and Council for final approval ahead of becoming law which is expected to be late 2016/early 2017. At that point, TSOG will take precedence over existing national codes and legislation.

The aim of TSOG is to promote system security by determining common principles for system operation and fostering increased operational collaboration on a regional and European basis. The guideline therefore covers many areas including (and not limited to) operational security, data exchange, outage coordination, adequacy analysis, frequency quality, as well as operation of load-frequency control and reserves.

TSOG constitutes three previously separate network codes:

1. OS (Operational Security)
2. OPS (Operational Planning & Scheduling)
3. LFC&R (Load Frequency Control & Reserves)

As this guideline becomes European law, national implementation will be required to

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align existing national codes and legislation with the European Network Codes. This paper requests that the Grid Code Review Panel, in conjunction with the Distribution Code Review Panel, approve the formation of an implementation workgroup to progress in a timely manner any changes necessary to the Grid Code and Distribution Code. This is to ensure code alignment, to set national requirements where TSOG allows flexibility, to help identify any other implementation tasks and to ensure thorough engagement with impacted industry stakeholders by involving them in these activities.

This follows existing precedent for implementing 'technical' EU Network Codes in GB. Workgroups for the Requirements for Generators (RfG), High Voltage Direct Current (HVDC), and Demand Connection Code (DCC) have already been set-up.

## Which Grid/Distribution Code clause/section is relevant for this issue?

Initial code mapping stakeholder workshops have identified many articles of the TSOG which map across to similar or comparable requirements in the existing GB Grid Code and Distribution Code.

## Please describe your proposed solution...

Following code mapping, the possible areas for further exploration/modification will be grouped into work streams according to the implementation timescales specified in TSOG. The workgroup can then address each work stream in turn, and work in conjunction with other implementation EU Network Code workgroups as/when interrelating requirements are identified.

## How has this issue originated?

An affected party has identified a Grid Code defect	
An affected party wishes to provide information to the Panel	
An affected party has identified a Grid Code procedural inefficiency	
An affected party needs clarity	
As a consequence of Significant Code Review (initiated by the Regulatory Authority)	
As a consequence of a licence or legislative change (including European Law)	X
Other:	

## <<ASSESS>>

### How are the Grid Code and Distribution Code objectives better achieved by resolving this issue?

**Economic & Efficient Development:** (i) to permit the development, maintenance and operation of an efficient, coordinated and economical system for the transmission of electricity

The development of the EU Network Codes is intended to improve competition and market accessibility across Europe, with the objective of reducing cost to the end consumer.

**Competition:** (ii) to facilitate competition in the generation and supply of electricity ... (on terms which neither prevent nor restrict competition in the supply or generation of electricity)

See above

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<b>System Security:</b> (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 electricity transmission system operator area taken as a whole;
The EU Network Codes are also geared towards harmonising suitable levels of technical capability amongst system users, in conjunction with consistent processes for System Operators, to ensure a robust and secure European energy network
<b>Licence Obligations:</b> (iv) 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
It is a licence obligation to ensure compliance with European legislation. Implementation the EU Network Codes, which are or will become EU law, is therefore a mandatory requirement.

## <<IMPACT>>

To what extent are industry stakeholders affected by this issue?	
Developers/Operators of all generation units	High
National Electricity Transmission System Operator (NETSO)	High
Transmission Owners (incl OFTOs & Interconnectors)	High
Distribution Network Operators	High
Suppliers	Low
Aggregators	High
Demand Customers (including Response providers)	High
Manufacturers	Low
Regulator	High
Other: None identified	

Is there a positive impact on greenhouse gas emissions by resolving this issue?				
No		Yes	X	[Please provide details below]
Another primary objective of the Third Energy Package and the EU Network codes is to better facilitate the connection of renewable generation.				

Is there any impact on industry codes or documents?					
CUSC	X	STC	X	BSC	X
SQSS	X	Distribution Code	X	DCUSA	X
Other Industry Documents				[Please provide details below]	
The need to coordinate with other EU codes will be addressed by reporting into the GC0048 (RfG) Coordination Group. SQSS and STC code panels will be consulted to					

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establish how best to manage these impacts/interactions.

## Is there a time limitation for this issue?

No	<input type="text"/>	Yes	<input checked="" type="checkbox"/>	[Please provide details below]
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### Entry into Force of TSOG is expected to be late 2016/early 2017.

Sections of TSOG apply at different times; some apply immediately on the Entry into Force (EIF) of the code, some apply at nine months after EIF, some apply eighteen months after Entry into Force.

## Have you attached any supporting documentation?

No	<input type="text"/>	Yes	<input checked="" type="checkbox"/>	[Please provide details/attach files below]
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A draft set of Terms of Reference for the workgroup are also provided.

### Document Guidance

This template is used to raise an issue at the Grid Code Review Panel, as well as providing an initial assessment. An issue can be anything that a party would like to raise and does not have to result in a modification to the Grid Code or creation of a Working Group.

**Grid Code Issue Papers for consideration at the next scheduled Grid Code Panel meeting (GCRP), must be submitted THREE weeks in advance [\[GCRP dates\]](#)**

Guidance has been provided in square brackets within the document, but please contact National Grid, The Code Administrator, with any questions or queries about this template: [grid.code@nationalgrid.com](mailto:grid.code@nationalgrid.com)

An overview of the Grid Code modification process can be found here:  
<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=28959>