Public

Grid Code Development Forum

04 March 2026

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National Energy System Operator

Agenda

1	Introduction, meeting objectives and review of previous actions - **Claire Newton, NESO**
2	Code Administrator Update – **Kat Higby, NESO (Code Administrator)**
3	Update to Planning References - Proposal to remove redundant references from Grid Code – **Thomas Goss, NESO**
4	Errors in ECC.6.4.5.1 legal text – **Graham Lear, NESO**
5	AOB and Meeting Close - **Claire Newton, NESO**

GCDF – Objectives and Expectations

Objective
Develop ideas, understand impacts to industry and modification content discussion, in relation to Grid Code related issues.
Anyone can bring an agenda item (not just NESO!)

Expectations
Explain acronyms and context of the update or change
Be respectful of each other's opinions and polite when providing feedback and asking questions
Contribute to the discussion
Language and Conduct to be consistent with the values of equality and diversity
Keep to agreed scope

The Forum will be recorded and made available on the GCDF webpage along with summary notes.

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Code Administrator Update

Kat Higby, NESO (Code Administrator)

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Key Updates since last GCDF

New Modifications / Nominations

•GC0186: Proposed Grid Code Changes - Post Electricity System Restoration Standard (ESRS) was presented at the February Grid Code Review Panel. The Panel agreed that GC0186 had a clearly defined defect and scope. Workgroup nominations have been paused until after the Distribution Code Review Panel.

Decisions

•There have been no Authority decisions since the last GCDF meeting

Implementations

•There have been no Authority decisions since the last GCDF meeting

Key Consultations

Workgroup Consultations	None
Code Administrator Consultations	•GC0164 Simplification of Operating Code No.2 Second Code Administrator Consultation opens 27 February, closes 27 March
Appeals Window	None

Useful Links

Ofgem's expected decision dates/ date they intend to publish an impact assessment or consultation, for code modifications that are with them for decision are available here

Updates on all Modifications are available on the Modification Tracker here

The latest Grid Code Review Panel Headline Report and prioritisation stack are available here

If you would like to receive updates from the Code Administrator on Grid Code modifications, please join the distribution list here

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Update to Planning References – Proposal to remove redundant references from Grid Code

Thomas Goss, NESO

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Situation:

Ofgem have confirmed the introduction of a new long-term planning framework, the Centralised Strategic Network Plan (CSNP). This will be covering the information currently given in the Electricity Ten Year Statement. (ETYS).

Therefore, we will need to remove references to ETYS and older statements, such as Seven Year Statement (SYS), Network Options Assessment (NOA) and the Offshore Development Information Statement (ODIS) and replace with CSNP, wherever adequate.

What will we need to do?

- The ETYS is being phased out in 2026, and the data which is input, reports produced, and other functions will be taken over by the new and broader CSNP.
- Therefore, we need to ensure that the Grid Code, STC/P and others are amended in line with the new situation and do not have references to redundant processes which would cause confusion and uncertainty among stakeholders.
- The SYS and ODIS are already redundant at the time of writing so references to these also need to be removed from the Codes.
- Where the function of the ETYS is being taken over by the CSNP this will need to be added into the legal text. A list of Grid Code references to ETYS, NOA and SYS has been compiled and there will be potentially three scenarios:

Likely Changes of ETYS References:

- References to ETYS/SYS where the function as described in the Code section is being taken over in its entirety by the CSNP, and the reference can therefore simply be replaced by reference either to CSNP, or where appropriate a more generic reference to NESO published planning data (may aid in future-proofing). We anticipate that the majority of cases will fit into this category.

- References to ETYS/SYS where part of the function as described in the Code section is being taken over by the CSNP but not all. The Code section will need to be amended to ensure that the new reference to CSNP is correctly describing the functions it will fulfil, and any others are either removed or also amended so that the function and how they are being fulfilled.

- References to ETYS/SYS where the function is either completely redundant or is only a description or confirmation of the ETYS/SYS. For example, this would include mentions in a definitions section, or a passage which is being removed from the Licence, and can safely be taken out of the Code without needing further modifications

Impact of the Mod

This Mod will impact any current users of ETYS. The next iteration of the report (summer 2026) will be the final one, and the license has already been updated regarding the requirements for CSNP.

The direct impact will be on the name of, and location of the data.

NESO will still be publishing most of the same data via CSNP. By ensuring that the references in the Grid Code are up to date and redundancy is removed, we are ensuring continuity and facilitating more effective future planning operations.

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Affected Grid Code Sections:

- Planning Code (PC) 4.1,
- PC.4.3.1, PC.5.4 (a),
- PC.5.4 (f),
- PC.A.4.4,
- CC.6.2.1.2 [e],
- CC.6.2.1.2(f),
- ECC.6.3.15.8(v),
- DRC page 62

Other Considerations

STC/P Mod:

There will also need to be an STC/P Mod raised for the same issue.

This is expected to be the main part of the work, with more changes, and more significant ones.

CUSC Mod:

There is also a Mod being raised to run concurrently for CUSC.

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Errors in ECC.6.4.5.1 legal text

Graham Lear, NESO

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The asks of GCDF

1. What is the appropriate route to take this proposal forward?
2. Are there any other suggestions to consider within the proposal?
3. Are there any concerns regarding this proposal?
4. Any other feedback from GCDF members.

Problem Statement

Issue:

- GC0104: EU Connection Codes GB Implementation – Demand Connection Code introduced reactive power requirements at EU Grid Supply Points into the European Connection Code.
- The legal text from this modification was altered between Workgroup Consultation and Code Administrator Consultation.
- The current text for ECC.6.4.5.1 within the Grid Code is unclear with reference to missing text.

Impacts:

- There is a lack of clarity on the obligations of this section of the Grid Code for Reactive Power requirements at EU Grid Supply Points.

Proposal

Proposed Solution:

- Raise a Grid Code modification to correct the legal text in ECC.6.4.5.1 to realign with that proposed through GC0104.
- This would include a change of formatting and the addition of some legal text as per the following slides.
- Take the proposal direct to Code Administrator Consultation.

Alternative Option considered:

- No other solution has been considered, and we welcome suggestions.

Current ECC.6.4.5.1 text in Grid Code

At each **EU Grid Supply Point**, **Non-Embedded Customers** and **Network Operators** who are **EU Code Users** shall ensure their **Systems** are capable of steady state operation within the **Reactive Power** limits as specified in ECC.6.4.5.1(a) and ECC.6.4.5.1(b). Where **The Company** requires a **Reactive Power** range which is broader than the limits defined in ECC.6.4.5.1(a) and ECC.6.4.5.1(b), this will be agreed as a reasonable requirement through joint assessment between the relevant **EU Code User** and **The Company** and justified in accordance with the requirements of ECC.6.4.5.1(c), (d), (e) and (f). For **Non-Embedded Customers** who are **EU Code Users**, the **Reactive Power** range at each **EU Grid Supply Point**, under both importing and exporting conditions, shall not exceed 48% of the larger of the **Maximum Import Capability** or **Maximum Export Capability** (0.9 **Power Factor** import or export of **Active Power**), except in situations where either technical or financial system benefits are demonstrated for **Non-Embedded Customers** and accepted by **The Company** in coordination with the **Relevant Transmission Licensee**.

a. For **Network Operators** who are **EU Code Users** at each **EU Grid Supply Point**, the **Reactive Power** range shall not exceed:

   I. 48 percent (i.e. 0.9 **Power Factor**) of the larger of the **Maximum Import Capability** or **Maximum Export Capability** during **Reactive Power** import (consumption); and

   II. 48 percent (i.e. 0.9 **Power Factor**) of the larger of the **Maximum Import Capability** or **Maximum Export Capability** during **Reactive Power** export (production);

   Except in situations where either technical or financial system benefits are proved by **The Company** in coordination with the **Relevant Transmission Licensee** and the relevant **Network Operator** through joint analysis.

b. **The Company** in co-ordination with the **Relevant Transmission Licensee** shall agree with the **Network Operator** on the scope of the analysis, which shall determine the optimal solution for **Reactive Power** exchange between their **Systems** at each **EU Grid Supply Point**, taking adequately into consideration the specific **System** characteristics, variable structure of power exchange, bidirectional flows and the **Reactive Power** capabilities of the **Network Operator's System**. Any proposed solutions shall take the above issues into account and shall be agreed as a reasonable requirement through joint assessment between the relevant **Network Operator** or **Non-Embedded Customer** and **The Company** in coordination with the **Relevant Transmission Licensee**. In the event of a shared site between a **GB Code User** and **EU Code User**, the requirements would generally be allocated to each User on the basis of their **Demand** in the case of a **Network Operator** who is a **GB Code User** and applied on the basis of the **Maximum Import Capability** or **Maximum Export Capability** as specified in ECC.6.4.5.1 in the case of a **Network Operator** who is an **EU Code User**.

c. **The Company** in coordination with the **Relevant Transmission Licensee** may specify the **Reactive Power** capability range at the **EU Grid Supply Point** in another form other than **Power Factor**.

d. Notwithstanding the ability of **Network Operators** or **Non Embedded Customers** to apply for a derogation from ECC.6.4.5.1 (e), where an **EU Grid Supply Point** is shared between **a Power Generating Module** and a **Non-Embedded Customers System**, the **Reactive Power** range would be apportioned to each **EU Code User** at their **Connection Point**.

Proposed text based on GC0104

At each **EU Grid Supply Point**, **Non-Embedded Customers** and **Network Operators** who are **EU Code Users** shall ensure their **Systems** are capable of steady state operation within the **Reactive Power** limits as specified in ECC.6.4.5.1(a) and ECC.6.4.5.1(b). Where **The Company** requires a **Reactive Power** range which is broader than the limits defined in ECC.6.4.5.1(a) and ECC.6.4.5.1(b), this will be agreed as a reasonable requirement through joint assessment between the relevant **EU Code User** and **The Company** and justified in accordance with the requirements of ECC.6.4.5.1(c), (d), (e) and (f). ~~For **Non-Embedded Customers** who are **EU Code Users**, the **Reactive Power** range at each **EU Grid Supply Point**, under both importing and exporting conditions, shall not exceed 48% of the larger of the **Maximum Import Capability** or **Maximum Export Capability** (0.9 **Power Factor** import or export of **Active Power**), except in situations where either technical or financial system benefits are demonstrated for **Non-Embedded Customers** and accepted by **The Company** in coordination with the **Relevant Transmission Licensee**.~~

a. For **Non-Embedded Customers** who are **EU Code Users**, the **Reactive Power** range at each **EU Grid Supply Point**, under both importing and exporting conditions, shall not exceed 48% of the larger of the **Maximum Import Capability** or **Maximum Export Capability** (0.9 **Power Factor** import or export of **Active Power**), except in situations where either technical or financial system benefits are demonstrated for **Non-Embedded Customers** and accepted by **The Company** in coordination with the **Relevant Transmission Licensee**.

b. For **Network Operators** who are **EU Code Users** at each **EU Grid Supply Point**, the **Reactive Power** range shall not exceed:

   I. 48 percent (i.e. 0.9 **Power Factor**) of the larger of the **Maximum Import Capability** or **Maximum Export Capability** during **Reactive Power** import (consumption); and

   II. 48 percent (i.e. 0.9 **Power Factor**) of the larger of the **Maximum Import Capability** or **Maximum Export Capability** during **Reactive Power** export (production);

   Except in situations where either technical or financial system benefits are proved by **The Company** in coordination with the **Relevant Transmission Licensee** and the relevant **Network Operator** through joint analysis.

c. **The Company** in co-ordination with the **Relevant Transmission Licensee** shall agree with the **Network Operator** on the scope of the analysis, which shall determine the optimal solution for **Reactive Power** exchange between their **Systems** at each **EU Grid Supply Point**, taking adequately into consideration the specific **System** characteristics, variable structure of power exchange, bidirectional flows and the **Reactive Power** capabilities of the **Network Operator's System**. Any proposed solutions shall take the above issues into account and shall be agreed as a reasonable requirement through joint assessment between the relevant **Network Operator** or **Non-Embedded Customer** and **The Company** in coordination with the **Relevant Transmission Licensee**. In the event of a shared site between a **GB Code User** and **EU Code User**, the requirements would generally be allocated to each User on the basis of their **Demand** in the case of a **Network Operator** who is a **GB Code User** and applied on the basis of the **Maximum Import Capability** or **Maximum Export Capability** as specified in ECC.6.4.5.1 in the case of a **Network Operator** who is an **EU Code User**.

d. **The Company** in coordination with the **Relevant Transmission Licensee** may specify the **Reactive Power** capability range at the **EU Grid Supply Point** in another form other than **Power Factor**.

e. The **Reactive Power** range requirement values shall be met at the **EU Grid Supply Point**. In the case of shared sites this would be apportioned to each **User**.

f. Notwithstanding the ability of **Network Operators** or **Non-Embedded Customers** to apply for a derogation from ECC.6.4.5.1 (e), where an **EU Grid Supply Point** is shared between a **Power Generating Module** and a **Non-Embedded Customers System**, the **Reactive Power** range would be apportioned to each **EU Code User** at their **Connection Point**.

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Benefits and Impacts

Benefits:

- Greater clarity to the text which currently makes reference to non-existent clauses.

Impacts:

- The only additional line added through this proposal is ECC.6.4.5.1 (e) which broadly aligns with the clarification in ECC.6.4.5.1 (f).
- We welcome any thoughts on unintended consequences of this proposal.

Thank You

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AOB

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