

Distribution Code Consultation DCRP/25/02/PC

Title: Annual Revision to the Distributed Generation Connection Guides

Target Audience:

This modification may have an effect on all Distribution Code Stakeholders including Distribution Network Operators, Customers, developers and prospective owners of generation equipment connected to the GB Distribution System.

Date Published: 17 February 2025

Deadline for responses: 17:00 Friday 14 March 2025

Summary:

This consultation paper is seeking the views from across industry on proposed amendments to the Distributed Generation Connection Guides (DG Guides) as part of the annual review carried out under the requirements of the Distribution Code of Great Britain (GB).

The DG Guides are revised on an annual basis to provide industry with relevant information on the connection processes, general guidance for connectees when completing the relevant forms, information on charging methodologies, and highlighting options available through the different contract types a DNO can offer for a connection.

1 Introduction

The DG Guides are governed by the Distribution Code Review Panel (DCRP) as an Annex 2 Qualifying Standard of the Distribution Code and published by the Energy Networks Association (ENA) and provide guidance to developers, owners and prospective owners of generation equipment looking to connect to the electricity distribution system of GB, as set out in EREC G98 and EREC G99.

Over the years the guides have evolved to keep pace with the changes across the relevant engineering documents to provide developers and connectees with a reliable source of supplementary guidance and assist in providing clarity when connecting distributed generation equipment.

Parties looking to connect generation equipment to the electricity distribution system can utilise the information within these guides to confirm generation type specific requirements and also gain background information on the GB power sector.

2 Defect

The purpose of this document is to provide a summary of the proposed annual updates made to this year's iteration of the Distributed Generation Connection Guide (DG Guide).

The DG Guide has been issued for consultation to be reviewed in advance of the ENA's plan to publish the DG Guide with the revised changes in March 2025.

Please note, any text within the DG Guide that is coloured red is new changes Ricardo & the ENA is proposing to make. Non-red text is the existing text in the DG Guide.

We suggest to the panel to review the DG Guide from top to bottom with a particular focus on the red text.

The DG Guide has also been restructured from last year's version. The main change is the implementation of two parts within the Guide:

- Part 1: G98 focusing on single and multiple premises.
- Part 2 G99 focusing on Type A and Type B-D.

3 Proposal

A summary of the changes implemented in the Guide came directly from proposed changes to the EU Codes EREC G98 and G99 documents. For example, new requirements to switch from import to export mode for electricity storage and compliance measures for generation sharing devices. The purpose of the additional text in the Guide is to make the user aware of the new requirements from the EU Code documents.

A caveat has been added to the DG Guide that the changes included are subject to Ofgem approval of EREC G98 and EREC G99 modifications.

The changes are as follows.

- **Electricity Storage:** Inclusion of new requirement for storage when operating in import mode to switch to export mode when the system frequency falls below a defined threshold. New text added to ENA introduction section just before Section 1. Further updates made to storage throughout the document.
- **Type Testing Equipment:** Updates made to drop down box in 'ENA Introduction' section to provide further guidance on when Type Tested Equipment is valid or non-valid following a change to requirements in EREC G98 and G99. Changes also made throughout the document.
- **Connect Direct:** Inclusion of the Connect Direct Portal throughout the document.
- **Generation Sharing Devices:** New text added in 'ENA Introduction' section of the Guide to introduce compliance measures for these devices.
- **Micro-generation used in Industrial Sites:** Clarification added to the Guide that the approach in EREC G98 should be used for a single Fully Type Tested Micro-generator connected at the customers installation at LV, where the customer is supplied at HV and where no other generation is connected to the site. G98 does not apply where generation sharing devices are used, making reference to EREC G99 instead. Detailed in Section 3.1.
- **G100 Technical Requirements:** Small change to EREC 100 where an import / export limitation device needs to Fully Type Tested. Clarification added in Section 1 of the Guide.
- **Requirements for System Analysis for G99 Type A-D:** Additional clarification text added to show where detailed models of PGM, control system models and simulation studies are required. This is added in Section 8.1, Section 8.3 and Section 8.4.
- **Customer Islanding:** Further clarity on the rules around customer island operation. Text added to Section 7.4.
- **Registered Capacity:** Update to revised definition of Registered Capacity. New text added to Section 7.3. New block diagrams added to the Appendix taken from the last EU steering group meeting.

- **Interim Operation Notification (ION):** Small update to the Guide to include clarification on cases where it may be impractical to complete all the necessary testing to achieve Final Operational Notification (FON). Added to Section 7.3 and other areas.
- **Modifying Existing PGMs:** News paragraph section to explain rules around modifying existing PGMs. Added to Section 7.1.
- **Limited Frequency Sensitive Mode (Over Frequency):** Small text added to state that PGM's capable of running in island mode must also demonstrate the capability to adjust their active power when the grid frequency reaches a limit. Added to Section 7.4.
- **National Energy System Operator (NESO).** Introduction to the role of NESO and replacing NGENSO with NESO throughout the document.
- **Small updates throughout**
- **Re-structuring of the Guide:** Separating the G98 and G99 into different sections; Part 1 of the Guide focuses in G98 while Part 2 focus on G99.

4 Applicable Distribution Code Objectives

The Applicable Distribution Code Objectives are to:

- a) permit the development, maintenance, and operation of an efficient, co-ordinated, and economical system for the distribution of electricity; and
- b) facilitate competition in the generation and supply of electricity; and
- c) efficiently discharge the obligations imposed upon distribution licensees by the distribution licences and comply with the Regulation and any relevant legally binding decision of the European Commission and/or the Agency for the Co-operation of Energy Regulators; and
- d) promote efficiency in the implementation and administration of the Distribution Code.

5 Consultation Questions

1. Do you agree with the general intent of the proposed modification? If not, please explain your view.
2. Do you agree with the proposed collated format for the guides going forward? If not, please explain your view.
3. Do you have any comments on specific sections within the guides? If so, please elaborate on these comments.
4. Do you have any other relevant comments?

6. Next Steps

Responses to this consultation should be sent to the Distribution Code Review Panel Secretary at dcode@energynetworks.org by **17:00 Friday 14 March 2025** on the pro-forma provided expressly for the purpose. Responses after this date may not be considered.

7. Consultation Pack Contents

A copy of the DCRP/MP/25/02 Consultation pack can be found using the link below,

<http://www.dcode.org.uk/consultations/open-consultations/>

The consultation pack includes:



- A copy of the consultation paper;
- A draft copy of the DG Guides;
- A response proforma.

For more information, please contact:

Jeevan Dhaliwal – Code Administrator - dcode@energynetworks.org