

# Unlocking Future Potential – Pan-European Services

Project TERRE Status  
Demand Connection Code

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# Project TERRE Status and Upcoming Events

## Project TERRE

### National Implementation

- Grid Code mod (GC 0097) and BSC mod (P344) for TERRE implementation are progressing
- GC0097: workgroup consultation on proposed solution launched 8<sup>th</sup> Jan, closes 26<sup>th</sup> Jan
- P344: Assessment Procedure consultation focusing on proposed legal text for BSC launched 10<sup>th</sup> January, closes 30<sup>th</sup> January

### European Implementation

- New TERRE members including Czech Republic, Romania, Poland (Now 10 full members)
- Most Recent consultation closed August 17, awaiting Regulators' decision on approval Package
- Development of platform expected to start early this year

- **TERRE Industry Day – 16<sup>th</sup> January.**
  - Introduction to project TERRE and details of the GB solution for implementation at Elexon offices
  - More information [Here](#)
- **Any Questions? Please contact [sophie.tilley@nationalgrid.com](mailto:sophie.tilley@nationalgrid.com)**

# Demand Connection Code – Chapter Summary

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## Chapter 1: General Provisions

- Sets out the scope, defines key terms, timescales, who it applies to and how to implement the code.

### Key points

Only applies to “New”:

- Transmission-connected demand facilities
- Transmission-connected distribution facilities and distribution systems
- Demand units used to provide demand response services


Or if Existing equipment has been modified to such an extent the connection agreement needs to be substantially revised

# What do we mean by “New”?

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You **aren't** “New” if you either:

Connect to the Network



A purple arrow-shaped bar with a right-pointing arrowhead, containing the text 'Connect to the Network'. Below it is a blue horizontal line with four vertical tick marks pointing down to the dates: September 2016, September 2018, March 2019, and September 2019.

September  
2016

September  
2018

March  
2019

September  
2019

Or alternatively:

Conclude contract



A purple arrow-shaped bar with a right-pointing arrowhead, containing the text 'Conclude contract'. It is positioned above a light blue rectangular box.

Notify relevant SO of contract



A purple arrow-shaped bar with a right-pointing arrowhead, containing the text 'Notify relevant SO of contract'. It is positioned below the 'Conclude contract' bar and above the text 'Both actions in this box must be completed to follow existing GB arrangements'.

Both actions in this box must be completed to follow existing GB arrangements

# Demand Connection Code – Chapter Summary

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## **Chapter 2: Connection of transmission-connected demand facilities, transmission-connected distribution facilities and distribution systems**

Sets out a number of technical requirements for the facilities/systems mentioned above. Requirements such as:

- Frequency
- Voltage
- Short-circuit
- Reactive power
- Protection
- Control
- Disconnection and reconnection

Also details the process of connecting – very similar to the current Generator connection process (i.e. EON, ION, FON, LON).

**Any new DCC requirements are being added to the Grid Code via GC0100 and GC0104**

# Demand Connection Code – Chapter Summary

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- **Chapter 3: Connection of demand units used by a demand facility or a closed distribution system to provide demand response services to system operators**

Lists five categories that demand services should be grouped into:

Remotely Controlled	Autonomously controlled
Demand response active power control	Demand response system frequency control
Demand response reactive power control	Demand response very fast active power control
Demand response transmission constraint management	

# Demand Connection Code – Chapter Summary

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## Points to note in Chapter 3

- Applies to distribution-connected and transmission-connect demand
- The categories listed aren't exclusive and don't prevent other categories existing/being developed
- Chapter 3 lists the **technical** requirements associated with each category – it doesn't specify how these should be commercially facilitated.
- As with the previous chapter, it also outlines the process of connecting (if providing a demand response service)
- The services aren't mandatory – NGET will procure services that sit within these categories and demand providers can choose to offer them. If they do they must meet the technical requirements specified in DCC for that particular category.

# Demand Connection Code – Chapter 3 Question

- The categories in Chapter 3 can be listed in C16 and the technical requirements can be specified in standard contract terms; or
- categories and technical requirements can be included in the Grid Code and/or Distribution Code
  
- **Do you have a preference?**
  
- Please fill in your feedback form or click this [link](#) to let us know.



# Demand Connection Code – Chapter Summary

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## Chapter 4: Compliance

- Covers compliance testing of:
  - Transmission-connected demand
  - Demand units providing demand response services
  
- Includes simulations, monitoring and testing of equipment

**Chapters 5-7 relate mostly to implementation and derogations**

# What can you do?

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## Get involved!

Join the GC0104/DC0104 joint working group – keep up with the discussions and have your voice heard

- Email [grid.code@nationalgrid.com](mailto:grid.code@nationalgrid.com) for more information and request a nomination form

Respond to the GC0104/DC0104 consultations when they come out (the first is expected in February)

- They'll be posted [here](#) and announced in the JESG newsletter and via distribution lists

If you have an opinion on where the Demand Response Service requirements go (Chapter 3) please tell us!

- Please fill in your feedback form or click this [link](#)
- Any questions? please contact [rachel.woodbridgestocks@nationalgrid.com](mailto:rachel.woodbridgestocks@nationalgrid.com)