

# STC Panel

**Wednesday 27 July 2022**

# WELCOME



nationalgridESO



# Introductions & Apologies for absence

- **Apologies**

- Nadir Hafeez

- **Alternates**

- Terry Baldwin
- Chibuike Ilomuanya

- **Presenters**

- Rob Wilson
- Antony Johnson
- Sade Adenola

- **Observers**

- Banke John-Okwesa

# Approval of Panel Minutes

Approval of Panel Minutes from the Meeting held  
29 June 2021



# Actions Log

## Review of the actions log



# Authority Decisions

## Decisions Received since last Panel meeting

None

## Decisions Pending

None – Any updates on CM078(CUSC328)?

# New modification submitted



- ***CM085 – “To Clarify OFTO Reactive Power Requirements at <20% output”***





# CM085: To clarify OFTO reactive power requirements at low windfarm outputs

Rob Wilson



# CM085 – the asks of Panel

- **AGREE** that this Modification meets the Self-Governance Criteria (Panel decision) rather than Standard Governance (Ofgem decision)
- **AGREE** that this Modification should proceed to Code Administrator Consultation
- **NOTE** the proposed timeline

# Timeline for CM085 (Self- Governance)- Code Administrator Consultation

Milestone	Date
Code Administrator Consultation	04 August 2022 to 25 August 2022
Draft Final Self Governance Modification Report issued to Panel	20 September 2022
Final Modification Report issued to Panel to check votes recorded correctly (5 working days)	30 September 2022
Appeals Window	10 October 2022 to 31 October 2022
Implementation Date	07 November 2022



# CM080: Legal text changes from Code Admin Consultation Transmission Impact Assessment Process in relation to CMP298



# Code Administrator Consultation Responses

## Summary of Code Administrator Consultation Responses :

- Code Administrator Consultation was run from 28 April 2022 to 20 May 2022 and received **2** responses. Key points were:
- National Grid ESO, supports the implementation approach. This proposal promotes efficiency by mitigating the need for having to apply for multiple 'Statement of Works Request' for smaller connections.
- The STCP18-4 summary currently describes the process of how TO(s) respond to the NGESO request for Statement of Works as a result of a User applying to NGESO for a Request for a Statement of Works. Once CM080 is approved, it will be necessary to establish and describe a similar process for Transmission Impact Assessments which works in a similar way.
- NGET, does not support the proposed implementation approach. The changes to STCP18-4 have not been concluded so it is not appropriate to set out timings of the implementation. Also, CM080 (only has changes made to section D, has being consulted upon) has no content to indicate the likely impact of the proposal on TOs.
- **Legal text issues identified,** *NGET suggest items stated in Legal Text in 4.3.2 (MVA) and 4.3.3 (MVA<sub>r</sub>) can be removed. These are broadly superfluous and confer little that is not delivered from the MW criterion. MWs covered in 4.3.1 and kA covered in 4.3.4 should be sufficient. It is for note that the proposed submission of DNO data, used to inform the Materiality Trigger for subsequent review, is expected to only by in MWs*

# Change to CM080 legal text

## Proposed Changes in Red

The ESO and NGET agreed on the revised legal text in 4.3 following the Code Admin Consultation. The wording for 4.3.2 and 4.3.3 still remains the same.

4.3 Evaluation of Transmission Impact **may require** the Transmission Owner to submit Trigger Criteria, **as agreed with NGESO** and identified in 4.3.1 to 4.3.4, for Network Operators at GSPs within their network subject to a timetable agreed with NGESO.

4.3.1 Active Power (MW)

4.3.2 Apparent Power (MVA)

4.3.3 Reactive Power (MVAR)

4.3.4 Amperage (KA)

# CM080 - the asks of Panel

- Agree the change to the legal text is typographical and then we carry out Recommendation Vote; or
  - Agree the change is not needed and then we carry out Recommendation Vote; or
    - Agree to run a 2<sup>nd</sup> Code Administrator Consultation(which will be restricted to the amended legal text and can be run for just 5 WDS if Panel agrees) that would be between July and August Panel. Then the recommendation vote will be conducted at the August Panel).
- **NOTE – Proposed** the timelines



## CM080 Next Steps (*if Standard Governance*)- 2<sup>nd</sup> CAC

Milestone	Date
Code Administrator Consultation (5 working days) if Panel agrees	08 August 2022 to 5pm on 15 August 2022
Draft Final Modification Report issued to Panel	23 August 2022
Draft Final Modification Report presented to Panel	31 August 2022
Final Modification Report issued to Panel to check votes recorded correctly (5 working days)	02 September 2022
Submission of Final Modification Report to Ofgem	12 September 2022
Ofgem decision date	TBC
Implementation Date	10 Working days after Authority's decision on CMP298

## [CM080 Next Steps (if Standard Governance)-2<sup>ND</sup> CAC not required

Milestone	Date
Code Admin Consultation legal text responses presented to Panel	27 July 2022
Draft Final Modification Report issued to Panel	23 August 2022
Draft Final Modification Report presented to Panel	31 August 2022
Final Modification Report issued to Panel to check votes recorded correctly (5 working days)	02 September 2022
Submission of Final Modification Report to Ofgem	12 September 2022
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# Electricity System Restoration Standard

GC0156 Presentation

Sade Adenola/ Antony Johnson



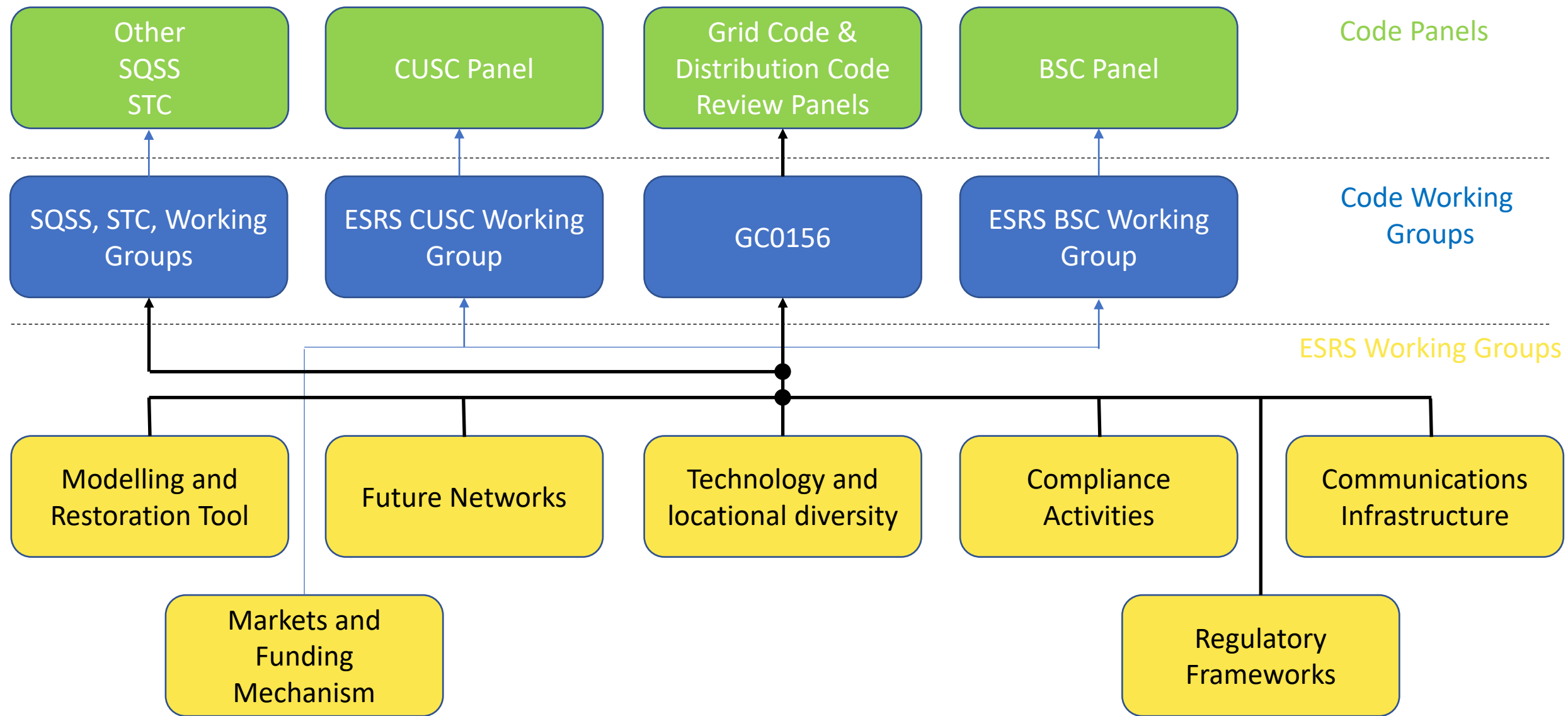
# Facilitation of the the ESRS

- Special Condition 2.2 of National Grid's Electricity System Operator's Transmission Licence, the Electricity System Restoration Standard (ESRS) requires
  - a. 60% of electricity demand being restored within 24 hours in all regions; and
  - b. 100% of electricity demand being restored within 5 days nationally.
- The purpose of this direction is to require that the ESO
  - a) Ensures and maintains an electricity restoration capability; and
  - b) Ensures and maintains the restoration timeframe.
  - c) Replace the definition of "Black Start" with "Electricity System Restoration"
- The aim is to restore the system and supplies as quickly as possible in the most economic manner

# Other Available Tools to support Restoration

Tool	Purpose	Function
GC0137 Modification	Grid Forming	Enables Converter and Renewable based Generation to provide Restoration Services – Approved by Ofgem in January 2022
GC0148	Improved Communications resilience	72 hours communication resilience
	Participation from Non – CUSC Parties	More Parties are able to provide Restoration Services
	Critical Tools and Facilities and Governance	Provides requirements for Critical Tools and Facilities during a Black Start
	System Restoration Plan	Grid Code Governance structure being introduced for the System Restoration Plan
Distributed Re-Start	Enables DNO's to start sections of their Network using Restoration Service Providers	Capitalises on the growth of Embedded Generation Resources which can contribute to Black Start Legal Drafting prepared as part of GC0148 to be updated and refined as part of ESRS
ESRS Workstreams	To identify what additional requirements are necessary to give the system the best possible chance of recovery	

# ESRS Hierarchy and Working Groups

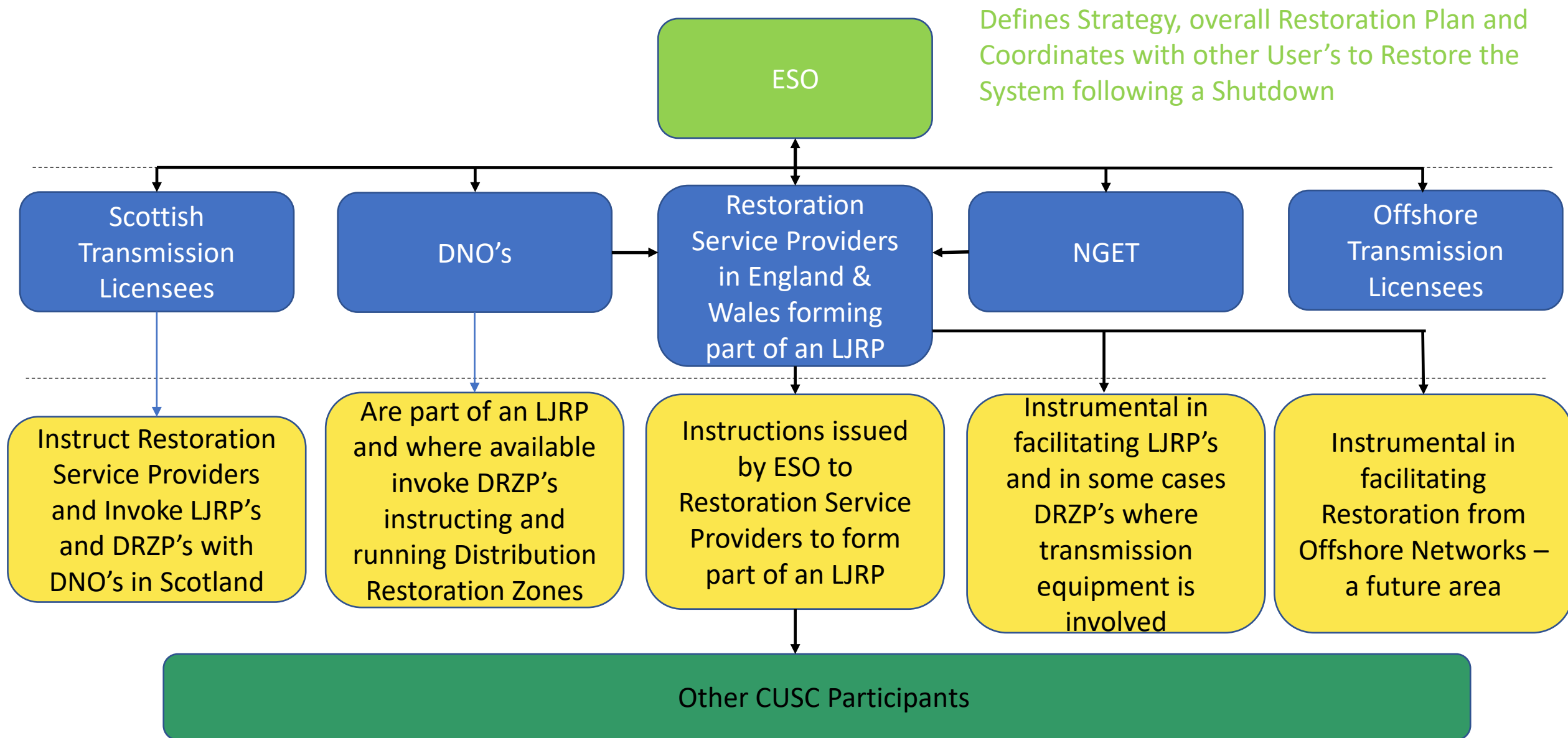




# GC0156 Subgroups

- The four ESRS Subgroups are
  - Assurance Framework
  - Communications Infrastructure
  - Future Networks
  - Markets and Funding Mechanisms
- The Terms of Reference for all the Subgroups were discussed in July 2022

# ESRS - Overview



# High Level Industry Code changes required (1)

- Introduce the Distributed Re-Start requirements into the Grid Code and Distribution Code – The GC0148 Workgroup Consultation provides the starting point for this
- Amend the Industry Codes to ensure there is consistency in the obligations and capabilities between Black Start Service Providers (Transmission Connected - LJRP) and Anchor Generators (Embedded - DRZP) – In particular noting that 132kV in Scotland and Offshore is a Transmission Voltage
- Update the Grid Code to replace the term “Black Start” with Electricity System Restoration Standard
- Update the Grid Code and STC to facilitate the provision of Black Start from Offshore Networks – this is expected to be a significant growth area in the future
- Amend the Terms and Conditions as required under the E&R Code for future tenders and as part of the wider ESRS work in particular
  - a. The re-energisation procedure
  - b. the re-synchronisation procedure
  - c. frequency deviation management
- Consider the requirements for adequate System resilience and robustness, from a System and Plant perspective
  - Primary Plant (ie main electrical plant – eg Generators, Transformers, switchgear etc)
  - Secondary Plant (ie Control systems, protection, metering / comms)

## High Level Industry Code changes required (2)

- Consider if additional measures are required for Critical Tools and Facilities as developed through GC0148
- What assumptions have been made about User's Plant and Apparatus during a System Shutdown and are further requirements necessary including remuneration measures
- Requirements for Regular Testing and Exercises from all Industry Participants – Consideration will need to be given to OC5 for both Local Joint Restoration Plans and Distribution Restoration Zone Plans
- Update the System Defence Plan, System Restoration Plan & Test Plan
- Undertake a minor house keeping change to OC5.7.1(b)(i) to ensure consistency with Grid Code Mod GC0108



# Next Steps

- Identify Grid Code and Distribution Code gaps
- Review Distributed Re-Start Drafting and work
- Update the Grid Code, LJP Process and Contracts to provide similar arrangements to those developed for DRZP's – this is particularly important for Smaller generators in Scotland where Transmission is classified at 132kV and above
- Identify the outcomes and recommendations of the ESRS workstreams
- Identify other deficiencies that can improve the restoration process

# Request of STC Panel

- To make STC Panel members aware of the ESRS work
- To note that changes will be required to the STC in respect of the ESRS with the Grid Code providing the initial development work which will then result in consequential changes to the STC
- To request if any STC Panel Representatives or related parties would be interested in joining one of the GC0156 Subgroups or the GC0156 Workgroup

# Draft modifications to be discussed

- ***None***

**DRAFT**

# Potential Future Modifications and impacts of other modifications

**Modifications Tracker – Sally Musaka**

**Authority Update (SCRs/Energy Code Review) – Chibuiké Ikomuanya**



# Reports from Sub-Committees

## **Joint Planning Committee (JPC)**

- **Next meeting: TBC**

## **Network Access Policy Workgroup (NAP)**

- **Next meeting: TBC**

# Code Administrator Update

- **None**



# AOB

Verbal update on C17 of the Transmission Licence Conditions requirements

Rob Wilson



# Date of next meeting

**Wednesday 31 August 2022**

**Panel Papers Day – 23 August 2022**

**Modification Submission date – 16 August 2022**

Close

