# Grid Code Modification – GC0139

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# Scope of Discussion

- Work with the ENA's Data & Digitalisation Steering Group (DDSG)

- Progress update of the development of Planning Code legal text

- Detail of outstanding work

# Engagement with DDSG

- Worked with the DDSG's CIM subgroup to seek CIM technical expertise to help identify gaps in the CIM standard compared to the new requirements of the PC.

- Tender issued seeking companies that could undertake a gap analysis between the CGMES v3 CIM format and the requirements of the PC.

- Why CGMES v3 CIM format? – Ofgem has specified this format for the LTDS

- Open Grid Systems (led by Alan McMorran) were the successful tender. OGS had supported Ofgem with their CIM work on the LTDS so this provided useful background experience.

- The OGS team consisted of Alan plus Pat Brown and Chavdar Inanov

# Proposal/Legal Text Progress

- There is a new structure to the PC including the introduction of new sections 9 and 10, supplemented with a new appendix.

- Pat & Chavdar took time to fully understand the requirements of the amended PC egal text.

- There has subsequently been a re-write of sections 9 & 10 to ensure the language used was not only appropriate for engineering consumption but was also accurate from a CIM syntax perspective.

- The new text has introduced a number of new definitions to provide clarity:
    - Structural Data
    - Situational Data
    - Solution Data, etc

# Section 9

- Section 9 details to requirements for data exchange from Network Operators to the ESO. This section of the legal text has been completed.
- Section 9 requires the Network Operators to provide the ESO with submissions at week 2 and week 28.
- The week 2 submission requires:
  - A PSM representing the NETS minimum demand scenario
  - A completed schedule 11C – Connection Point demand & generation forecast at NETS minimum demand
  - A completed schedule 11D – Connection Point demand & generation forecast at Connection Point minimum demand
  - A completed schedule 11E – Connection Point demand & generation forecast at Connection Point daylight minimum demand
  - A completed schedule 11F – Connection Point demand & generation forecast at Access Period maximum demand

# Section 9 - Continued

- The week 28 submission requires:

  - A PSM representing the NETS maximum demand scenario

  - A completed schedule 11A – Connection Point demand & generation forecast at NETS maximum demand

  - A completed schedule 11B – Connection Point demand & generation forecast at Connection Point maximum demand

  - Information relating to Embedded Generation in schedules 11G, 11H and 11I

  - Demand Control information in schedules 12a, 12b and 12c

  - Demand profile information in Schedules 10a, 10b and 10c.

# Evaluation of Transmission Impact

- Alignment with the ETI process. ETI submission would consist of

    - Description of changes to structural data from the last PC submission ie week 2 or week 28.

    - Technical data associated with the proposed new generation connection

# Scope of a PSM

- A PSM consists of:
  - Structural Data
  - Situational Data
  - Solution Data

- The precise data requirements for these data will be set out in a new appendix.

- The PSM is supported by two textual documents:
  - PSM Scenario Document – providing details relevant to the scenario for example: post fault action in relation to Access Group compliance
  - PSM Change Document – providing contextual information relating to changes from the last PC submission.

- ESO will provide 2 submissions annually at week 12 & week 38
- Week 12 submission consists of:
  - A solved PSM representing a NETS minimum Demand
  - A solved PSM representing a NETS minimum daylight Demand
  - A solved PSM representing a NETS low power transfer
  - A solved PSM representing a NETS minimum Fault Level
- Week 38 submission consists of:
  - A solved PSM representing a NETS maximum Demand
  - A solved PSM representing a NETS high power transfer
  - A solved PSM representing a NETS maximum Fault Level

# Work to be Completed

- Appendix G is in draft form but needs to be reviewed and completed
- Gap analysis between PC requirements and CGMES format is outstanding
- Workgroup Consultation document needs to be completed.