DCP137 – Generation Dominated Area

1.   This note details the method for populating the Generation Dominated Template that has been constructed to establish the generation dominated areas in each DNO area. The method used to determinate generation dominance is theoretical and based on information from asset data and several load and generation forecast assumptions.

2.   The Generation Dominated Area template enables DNOs to indicate and monitor the primary substations which are or will become, over a period of time, Generation Dominated as determined in the GDA tests.

3.   The template requires the latest version of the DNO's Long Term Development Statement (LTDS) Data Tables.

4.   Two tables from the LTDS are used to populate the template. Data items from 'Table 3 – Load Data' and 'Table 5 – Generation' are used.

5.   Columns B:F of sheet 'GDA template' are populated from Table 3 and column G from Table 5. The maximum demand (column D) should be the forecast data for the year that the charges will be used. The data in column G from table 5 is matched to the correct substation for the data in columns B:F.

6.   Column A should be used to enable the DNO area specific generation growth information to be added. The DNO name needs to be added to column A and the name used will need to match the name in the table in sheet 'generation growth'.

7.   Once Columns A:G are populated the formulas in columns H:AF can be copied down.

8.   The calculations cover the test periods of t = 2.5, 5, 7.5 and 10 years. Column AD details the time when the substation is deemed to become generation dominated.

9.   The generation dominated areas specification is only used for primary substations that feed to HV networks. Any other substations can be deleted or filtered from the analysis.

10.   A GDA subset of the data needs to be moved to sheet 'Generation Dominated Areas'. The data needs to be filtered for the GDA and copied and pasted to the sheet.

11.   All HV connected generators need to be identified for each of the GDA in the 'Generation Dominated Areas' sheet. Additional rows for each GDA will need to be created if more than one HV generator is connected to the GDA.