

Draft DCP088 CDCM model version r6003

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1. This paper describes the differences between the CDCM model 100 issued by DCUSA in 2010 and the draft CDCM model developed by the DCP088 working group (version r6003 of 8 February 2012).
2. Changes are grouped into three categories:
 - (a) Changes that affect the input data or the calculation of tariffs.
 - (b) Changes that affect the summary statistics calculated in the model.
 - (c) Changes that do not affect the numbers in the model.

Changes that affect the input data or the calculation of tariffs

3. I have deleted table 1201 and replaced it with table 1095. This table contains the current/previous tariffs. Table 1201 was not used to calculate tariffs. Table 1095 is used to calculate tariffs in the case of an in-year tariff change.
4. I have added input data tables 1096–1098 and two columns to the right of tables 1010 and 1076, to provide input data used to calculate tariffs for a first or second in-year tariff change.
5. The details of the input data changes are as follows:
 - (a) Table 1010 (Financial and general assumptions) has additional columns at the right for the numbers of days in up to two periods within the charging year before an in-year tariff change.
 - (b) Table 1076 (Target revenue) has additional columns at the right enabling the entry of manual adjustments to revenues earned in the charging year before a in-year tariff change, to allow for the effect of reconciliation runs.
 - (c) Tables 1095–1098 contain volumes and tariffs in up to two separate periods within the charging year before an in-year tariff change. The titles of these tariffs are hopefully self-explanatory. Table 1095 is also as the baseline for the tariff change statistics in table 4101 (instead of the former table 1201).
6. When modelling tariffs for a full year or a first in-year change, unused input data cells should be left blank or set to zero.
7. To populate tables 1095 or 1097 from previous CDCM models, the best way is to take the data from table 3605, which has the same data as table 3701 but in the same order as table 1095 or 1097. With the versions of Microsoft Excel that I use, the easiest way of ensuring that pasted values are rounded to the displayed number of decimal places, rather than pasted as the underlying values, is to close the workbook being copied from before pasting.

8. I have added or modified calculations tables 2305–2309, 3401–3405, and 3607–3608 to implement the calculations of revenue matching in the context of a first or second in-year tariff change.

Changes that affect the summary statistics calculated in the model

9. Statistics about historical tariffs are shown in tables 3401 and 3403. Only the third column of these tables (revenues in the period) is used for tariff calculations; the rest is just for information.
10. I have also added or modified summary tables 3804–3809 to show some further statistics that the working group wanted. These tables give estimates of revenues for:
 - (a) The period covered by tables 1095 and 1096 (which is labelled period 2 in tables 3403 and 3805).
 - (b) The period covered by tables 1097 and 1098 (which is labelled period 1 in tables 3401 and 3804).
 - (c) The period after the tariff change (the tariffs that the model calculates).
 - (d) The year in aggregate (the sum of the three periods above).
11. I have retained an annualised basis for tables 3802, 3803, 4101 (and the tables containing calculations that feed table 4101), even when modelling an in-year tariff change.
12. The last column of table 3608 contains a calculation of the adjustment to full-year target revenues that would need to be entered in model 100 in order to use model 100 to calculate the tariffs after the in-year tariff change.

Changes that do not affect the numbers in the model

13. I have changed the Microsoft Excel number formatting format used in most cells so that there will be a visible overflow indicator if columns are made too narrow. I have also eliminated the “dot” indicators of zero values that were shown in some tables.
14. The following calculation tables have new numbers: 2310 (was 2305), 3406 (was 3402), 3407 (was 3403), 3608 (was 3607). Note that table numbers in the Input sheet are fixed and have not changed unless explicitly affected by the modifications to input data described above.
15. I have changed some descriptive text including the names of tables 2010, 2011, 2802, 2803, 3406, 3506, 3508, 3802–3803, 4001 and 4005–4006, in an attempt at making them clearer, more concise or more accurate.
16. I have changed the order of the sheets in the workbook. The order now follows the order of the calculations in the model.

17. I have changed the top line of each sheet (showing the DNO name and other general information) so that it is now in cell A1 rather than scattered across several cells.
18. I have put in a new disclaimer at the top of the Overview sheet.
19. I have expanded the technical version information at the bottom of the Overview sheet to facilitate the future identification of model versions.

Things that have not been changed for this version

20. This final section identifies some areas in which no change has been made since model 100. I do not know whether some of the potential changes envisaged below could or should be made as part of DCP088.
21. I have retained the same approach to rounding as in model 100. This means that all-the-way tariffs are explicitly rounded by LDNO tariffs are only rounded for display purposes through the use of number formats in table 3701.
22. I have retained the same selection of tariffs for table 4101 as in model 100. This does not include any generation tariffs.
23. I have retained the .xls Microsoft Excel 1997–2004 format. The file seems to work with all common versions of Microsoft Excel (and, subject to cosmetic issues, with some non-Microsoft software including OpenOffice.org, LibreOffice and Gnumeric). I have fixed a bug triggered by Windows 7 that might have existed in some of my past .xls files. I could produce a .xlsx file that would seem to work in Microsoft Excel 2007–2011, but I am still working on a bug relating to the Microsoft Open XML converter for previous versions of Microsoft Excel in order to make a .xlsx file that would work with all common software.