# DCP 160 CDCM model

* 1. This document describes a CDCM tariff model (r7087) produced to implement a specification issued by the DCP 160 working group in January 2016.
  2. The reference version is a model produced for the DCUSA panel in November 2015 that includes DCP 227.

## Structural changes

* 1. There are additional tables in the AMD sheet.

## Additional or modified input data

* 1. There are no changes to input data.

## Additional or modified outputs

* 1. There are no changes to the structure of outputs.

## New or modified calculation tables

* 1. All the changes are in the AMD and AggCap sheets, which contains tables numbered in the 26XX and 31XX ranges respectively.
  2. All existing tables in the AMD sheet (tables 2601–2613) are as in the reference version, subject to:
     1. Renumbering: tables 2604–2613 have moved to 2613–2622.
     2. The formula in table 2613 (previously 2604) now refers to “2612. Implied average load factor” instead of “1041. Load factor for each type of demand user (in Load profile data for demand users)”.
  3. The calculations listed in table 1 have been inserted in the AMD sheet to implement DCP 160.

Table 1 Additional calculations in the AMD sheet

|  |  |
| --- | --- |
| **2604** | **Mapping of users with fixed charges based on standing charges factors to tariff groups for deemed load factors**  This constant data table establishes a mapping of demand users with fixed charges and no capacity charges to the category (voltage level) used to adjust load factors. |
| **2605** | **Mapping of users with capacity charges to tariff groups for deemed load factors**  This constant data table establishes a mapping of demand users with capacity charges to the category (voltage level) for which they are used to infer the load factor adjustment factor. |
| **2606** | **Diversified maximum demand (kW)**  For each tariff with capacity charges, this calculates the diversified maximum demand implied by the consumption forecasts in table 1053 and the load factor in table 1041. |
| **2607** | **Relevant diversified maximum demand in tariff group (kW)**  Using the mapping from table 2605, this aggregates the data from table 2606 to tariff groups. |
| **2608** | **Maximum import capacity (kVA)**  For each tariff with capacity charges, this picks out the aggregate maximum import capacity derived from the data in table 1053. |
| **2609** | **Aggregate maximum import capacity in tariff group (kVA)**  Using the mapping from table 2605, this aggregates the data from table 2608 to tariff groups. |
| **2610** | **Load factor correction factor for tariff group**  The ratio of the aggregates in table 2609 and 2607 is the load factor correction factor for each tariff group. |
| **2611** | **Supercustomer load factor correction factor**  Using the mapping from table 2604, this determines the load factor correction factor for each demand tariff with fixed charges and no capacity charges. |
| **2612** | **Implied average load factor**  Using table 1041 and table 2611, this calculates an adjusted load factor for each demand tariff with fixed charges and no capacity charges. This adjusted load factor will be used in the calculation of the part of fixed charges which is derived from charges for network capacity. |

* 1. The only change in the AggCap sheet is that the formula in table 3102 now refers to “2612. Implied average load factor” instead of “1041. Load factor for each type of demand user (in Load profile data for demand users)”.

## Impact statement

* 1. The impact statement has been prepared using data obtained from the 2017/2018 CDCM models published by DNOs.