



End User Categories and Derived Factors

July 2019

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| | | |

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1. INTRODUCTION

This document provides an explanation of the electronic files of End User Category definitions and Derived Factors published by Xoserve on a final basis following industry consultation and Demand Estimation Sub Committee (DESC) approval.

The data consists of both small and large NDM profiling and capacity estimation parameters from 1st October 2019 to 30th September 2020 for each End User Category (EUC).

This year, these proposals include the new EUCs and associated parameters developed during this year's modelling process to be used in Gas Year 2019/20.

At the request of DESC, parameters have been developed for the following customer types in EUC Band 1 (0 to 73.2 MWh pa) and EUC Band 2 (73.2 to 293 MWh pa). The types are:

1. Non Prepayment Domestic
2. Prepayment Domestic
3. Non Prepayment I&C
4. Prepayment I&C

It has been necessary to modify EUC attribute names to include these new EUCs and the new names are as follows: (in all examples xx represents the LDZ)

EUC Band 1 (0 to 73.2 MWh pa)

| | | |
|--|-------------|------------------|
| Non Prepayment Domestic EUC: | xx:E1901BND | i.e. WM:E1901BND |
| Pre-payment Domestic meter consumer EUC: | xx:E1901BPD | i.e. SE:E1901BPD |
| Non-Domestic consumer I&C EUC: | xx:E1901BNI | i.e. NO:E1901BNI |
| Prepayment non-domestic I&C EUC: | xx:E1901BPI | i.e. EA:E1901BPI |

EUC Band 2 (73.2 to 293 MWh pa)

| | | |
|----------------------------------|-------------|------------------|
| Non Prepayment Domestic EUC: | xx:E1902BND | i.e. EA:E1902BND |
| Prepayment Domestic EUC: | xx:E1902BPD | i.e. WM:E1902BPD |
| Non-Domestic I&C EUC: | xx:E1902BNI | i.e. SO:E1902BNI |
| Prepayment non-domestic I&C EUC: | xx:E1902BPI | i.e. EM:E1902BPI |

2. DESCRIPTION OF FILES

The Demand Estimation Sub Committee (DESC) is responsible for confirming the definitions of the End User Categories (EUCs) and for producing the "Derived Factors" (UNC Section H Term) for the next Gas Year.

The Derived Factors, listed below, are essentially the main output from the annual Demand Estimation process which are used in key industry processes such as NDM Nominations/Allocations, AQ calculation and Capacity Invoicing.

- Annual Load Profiles (ALPs)
- Daily Adjustment Factors (DAFs)
- Peak Load Factors (PLFs)

Following a request in 2019, DESC agreed that the above output could be shared in the public domain.

Any UNC or Non-UNC parties who wish to learn more about the process for producing these values please refer to the DESC website where all meetings and material is available to view [here](#).

In addition the Demand Estimation page on Xoserve's website is available [here](#) and includes a number of FAQs.

Note the underlying demand models and supporting files are available to UNC parties on the secure area of Xoserve's website.

All data files containing the NDM EUC profiles and EUC peak load factors are comma separated text files and the format and content is explained further overleaf.

(A) ALPDAF19.TXT;

The **ALPDAF19.txt** file contains the output from this year's demand modelling process and represents the values to be used in the calculation of AQs in SAP-ISU (UNC Section H 3.2.1).

Note: A hybrid version was agreed by DESC which applied an 'uplift factor' to the DAF, this version was used in the NDM Nominations and Allocations process in Gemini (UNC Section H 2.2.1). For the avoidance of doubt the file published here is the 'pure' result of the modelling process – i.e. without any uplifts applied.

An example of how to interpret the content of the ALPDAF file follows below:

The ALPDAF files contain Annual Load Profiles (ALPs) and Daily Adjustment Factors (DAFs) from 1st October 2019 to 30th September 2020 for each EUC in each LDZ. The values for the Scottish Independent Networks (LC, LO, LS, LT and LW) are also included in this file, albeit that these are the same as those derived for SC LDZ.

Each record consists of a date and EUC definition (as set out in the accompanying file "EUC_Definitions_GY_201920v1") followed by the applicable ALP and DAF.

e.g. in the ALPDAF19.txt file the record for the 0 - 73.2 MWh pa Domestic Non Prepayment EUC in SC LDZ on 1st October 2019 is as follows:

"SC:E1901BND",01/10/2019, 0.677673,-0.193853

where the ALP is 0.677673 and the DAF is -0.193853 on that day.

The record format is given in Table 1:

TABLE 1 - RECORD FORMAT FOR ALPDAF19 FILE

| FIELD | FORMAT | LENGTH |
|-----------------|------------|---------|
| Quote delimiter | Character | 1 |
| EUC name | Character | 9 or 11 |
| Quote delimiter | Character | 1 |
| Comma separator | Character | 1 |
| Date | dd/mm/yyyy | 10 |
| Comma separator | Character | 1 |
| ALP | Real | 8 |
| Comma separator | Character | 1 |
| DAF | Real | 8 or 9 |

(B) LF19_v2.TXT;

The LF19_v2 file contains all EUC Peak Load Factors to be used in Gas Year 2019/20.

An example of how to interpret the content of the LF files follows below, using the LF19v2.txt version as an example.

Each record consists of an EUC code followed by the peak load factor. The values of peak load factors for the Scottish Independent Networks (LC, LO, LS, LT and LW) are also included in this file, albeit that these are the same as those derived for SC LDZ.

e.g. the record for the 0 - 73.2 MWh pa Domestic Non Prepayment EUC in SC LDZ is as follows:

"SC:E1901BND",0.340

where the peak load factor is 0.340 (or 34.0%).

The record format is given in Table 2:

TABLE 2 - RECORD FORMAT FOR LF19_v2.TXT

| FIELD | FORMAT | LENGTH |
|-----------------|-----------|---------|
| Quote delimiter | Character | 1 |
| EUC name | Character | 9 or 11 |
| Quote delimiter | Character | 1 |
| Comma separator | Character | 1 |
| Load Factor | Real | 5 |

(C) EUC_DEFINITIONS_GY_201920v1.XLSX

This file contains the End User Category (EUC) definitions for Gas Year 2019/20.

Each row contains the EUC Attribute and Lower / Upper AQ Band as agreed by DESC at the beginning of the Spring Analysis (see Spring Approach document);

In addition, this file also contains the WAR Band ratios, agreed by DESC TWG on 24th April 2019, for those EUCs which have an associated set of WAR Band models.