

End User Categories & Derived Factors

June 2022

Date	Status of Proposal	Consultation Status
10 th June 2022	Draft	DESC Technical Workgroup and DESC to review
7 th July 2022	Draft	DESC Technical Workgroup and DESC to review
19 th July 2022	Final	

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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 Correlia on behalf of Xoserve on a draft basis ahead of the Demand Estimation Sub Committee Technical Workgroup (TWG) and Demand Estimation Sub Committee (DESC) approval.

The data in these files may change prior to final publication once the formal consultation process has been followed.

The data consists of both small and large NDM profiling and capacity estimation parameters from 1st October 2022 to 30th September 2023 for each End User Category (EUC).

From Gas Year 2019/20, at the request of DESC, additional EUC definitions 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 Band 1 and Band 2 EUC attribute names for Gas Year 2022/23 are as follows: (in all examples xx represents the LDZ)

EUC Band 1 (0 to 73.2 MWh pa)

Meter Type	Consumer Type	Attribute name	Example
Non-Prepayment	Domestic	xx:E2201BND	WM:E2201BND
Prepayment	Domestic	xx:E2201BPD	SE:E2201BPD
Non-Prepayment	I&C	xx:E2201BNI	NO:E2201BNI
Prepayment	I&C	xx:E2201BPI	EA:E2201BPI

EUC Band 2 (73.2 to 293 MWh pa)

Meter Type	Consumer Type	Attribute name	Example
Non-Prepayment	Domestic	xx:E2202BND	WM:E2202BND
Prepayment	Domestic	xx:E2202BPD	SE:E2202BPD
Non-Prepayment	I&C	xx:E2202BNI	NO:E2202BNI
Prepayment	I&C	xx:E2202BPI	EA:E2202BPI

1.1 COVID-19 Impact

During last year's EUC demand modelling process, DESC raised concerns over the suitability of using the 2020/21 analysis year to inform the EUC demand models prepared for Gas Year 2021/22, due to the impact of COVID-19. Discussions followed at the DESC TWG meeting on 24th May 2021 where single year analysis was presented. Following a review of the results, the decision was made to only use the 2020/21 analysis year data for the Band 1 Domestic EUCs ("01BND").

This year DESC were happy to use the 2021/22 analysis year in the derivation of demand models for Gas Year 2022/23 because the impacts of COVID-19 were less significant. This means the 3 individual years used in the smoothed I&C EUC demand models will not align with Band 1 Domestic EUCs ("01BND") i.e. I&Cs and Band 2 Domestic ("02BND") use analysis years 2018/19, 2019/20 and 2021/22 whereas Band 1 Domestic use analysis years 2019/20, 2020/21 and 2021/22. The exception to this is the Domestic Prepayment EUCs ("01BPD" and "02BPD") which use analysis year 2021/22 and MOD451AV data only.

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 below.

2.1 ALPs and DAFs File: ALPDAF22_v2.TXT

The ALPDAF22_v2.txt file contains the output from this year's demand modelling.

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 2022 to 30th September 2023 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_22_v1") followed by the applicable ALP and DAF.

e.g. in the ALPDAF22_v2.txt file the record for the 0 - 73.2 MWh pa Domestic Non-Prepayment EUC in EA LDZ on 1st October 2022 is as follows:

" EA:E2201BND",01/10/2022,0.589078,-0.238091

where the ALP is 0. 589078 and the DAF is -0.238091 on that day.

TABLE 1 - Record Format for ALPDAF22_v2 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

2.2 Peak Load Factors File: LF22_v2.TXT

The LF22_v2 file contains all EUC Peak Load Factors to be used in Gas Year 2022/23.

An example of how to interpret the content of the LF files follows below, using the LF22_v2.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 EA LDZ is as follows:

"EA:E2201BND",0.313

where the peak load factor is 0.313 (or 31.3%).

TABLE 2 - Record Format for LF22_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

2.3 EUC definitions file: EUC_DEFINITIONS_22_v1.XLSX

This file contains the End User Category (EUC) definitions for Gas Year 2022/23.

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

In addition, this file also contains the WAR Band ratios, agreed by DESC TWG on 27th April 2022, for those EUCs which have an associated set of WAR Band models.