**Data Specification Document**

**TNUoS Demand Supplier Invoice & Backing Sheet CSV Files**

**Version 2.1**

**15th Aug 2023**

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# Usage

# Revision Information

Classification: External Use

|  |  |  |  |
| --- | --- | --- | --- |
| **Author** | **Version** | **Date** | **Comments** |
| Data Services Team | 1.0 | 15th February 2023 | Initial Document |
| Data Services Team | 1.1 | 6th April 2023 | Updated SCD to num(10), removed 'DRAFT' status |
| Data Services Team | 1.1.1 | 22 June 2023 | Zip file containing CSV templates embedded in Section 7.1. |
| Data Services Team | 2.0 | 27th June 2023 | Data type liability rounding updates, HMRC EE Invoice updates, TDR Charging Band breakdown, layout version history table, embedded zipped samples. |
| Data Services Team | 2.1 | 15th August 2023 | Updated the file type for the TNUoS Demand invoice file to be TNUDIN02 instead of TNUDIN01 and added Floored Zero clarifications for HH+EE. |

**Backing File Layout Version**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Charge** | **Document Type** | **Version** | **Bill Date** | **Comments** |
| TNUoS Demand | Invoice | TNUDIN01 | May 2023 | Initial Layout |
| TNUoS Demand | Invoice | TNUDIN02 | July 2023 | HMRC EE update |
| TNUoS Demand | Backing Sheet | TNUDBS01 | May 2023 | Initial Layout |
| TNUoS Demand | Backing Sheet | TNUDBS02 | October 2023  | 6 decimal place liability rounding, TDR Charging Band breakdown |

**Document Location**

The online version of this document will be located [in this area](https://www.nationalgrideso.com/industry-information/charging/charging-guidance) of the National Grid ESO website.

# Control List – Redacted for Public Release

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# Purpose

This Data Specification document describes the source data and formats for the TNUoS Demand invoice and backing sheet CSV files. National Grid Electricity System Operator (NGESO) publish monthly invoice and backing sheet data to TNUoS Demand suppliers.

This document specifies the data requirements the participating systems must meet to receive and ingest CSV data from National Grid ESO. It describes the file structure and data formats pertaining to this data.

The intended audience of this Document are all external and internal stakeholders, including the industry suppliers, senior leadership, and the NGESO internal teams associated with development and operations of the systems connected to the CSV data.

The document provides the following information:

* Data specifications including data formats, data types and sample data.
* Assumptions where appropriate.

# Overview

The Revenue billing system, STAR, processes the TNUoS Demand monthly billing and produces invoice and backing sheet CSV files to be sent to the supplier. The invoice and backing sheet CSV data will exist in a standard format to be ingested into target systems.

Changes to the CSV format will require a new version of this document and will be reflected in the header record of the CSV file. This document is located in the STAR billing system area of the National Grid ESO website, drilling down through the Industry Information and Charging sections.

The scope of the document is the data being transferred from National Grid ESO to the supplier. The source files contain the invoice and backing sheet data produced during the monthly billing process for TNUoS Demand in the form of CSV files.

The invoice CSV file contains a large proportion of the information produced on the invoice PDF and the backing sheet CSV file contains supporting information for the TNUoS charge, including tariff details and TDR charges.

For each supplier, the invoice and backing sheet CSV files will be sent monthly from National Grid ESO. This document describes the format of the CSV files which are applicable both for viewing in Excel and ingesting into data stores.

# Assumptions/Dependencies/Risks/Issues

## Assumptions

|  |  |
| --- | --- |
| **#** | **Assumption** |
| 1 | Column titles contain no spaces |
| 2 | Company name in filename contains no spaces |
| 3 | All sample data is test data  |

## Dependencies

There are no documented dependencies.

## Risks/Issues

There are no documented risks or issues.

# Data Specification

## 6.1. Data File Format

**TNUoS Demand Invoice CSV**

**Filename**: <FY>\_<Month>\_<Supplier Name>\_<Invoice ID>\_DM.csv

**File Format**: CSV File

**File Size**: < 1KB

**Frequency**: Monthly

The TNUoS Demand Invoice CSV file is referenced using the filename <FY (format YY-YY)>\_<Month (format MONTH)>\_<Supplier Name (no spaces)>\_<Invoice ID>\_DM.csv e.g. 22-23\_AUGUST\_TestDataCompany\_80223345\_DM.csv. Each file contains one header record, one footer record and data records, each record consisting of comma separated fields (see sample in section 8.1). The first field of each record is the record type and each record, apart from the last line, terminates with LF.

**TNUoS Demand Backing Sheet CSV**

**Filename**: <FY>\_<Month>\_<Supplier Name>\_DM.csv

**File Format**: CSV File

**File Size**: < 5KB

**Frequency**: Monthly

The TNUoS Demand Backing Sheet CSV file is referenced using the filename <FY (format YY-YY)>\_<Month (format MONTH)>\_<Supplier Name (no spaces)>\_DM.csv e.g. 22-23\_AUGUST\_TestDataCompany\_DM.csv. Each file contains one header record, one footer record and data records, each record consisting of comma separated value fields (see sample in section 8.1). The first field of each record is the record type and each record, apart from the last line, terminates with LF.

## 6.2. Data Field Format

The Data source section comprises a full description and logical display in a tabular format for each TNUoS Demand CSV file, invoice and backing sheet. Please also see the excel sheet below for the source tables.



**TNUoS Demand Invoice CSV description – layout version 02**

The header record with record type ‘AAA’ consists of the file type and version, the message role, the creation time, the ‘from role’ and ‘from participant’, the ‘to role’ code and ‘to participant’ ID, the sequence number and the test data flag.

The file type for the invoice CSV file consists of eight characters, the first four characters a reference for the billing stream e.g. TNUD, the fifth and sixth characters a document type reference e.g. IN for invoice and the final two characters the document layout version e.g. 02.

The message role containing either ‘D’ for data or ‘R’ for response will always be ‘D’ for data.

The creation time is the system date and time in GMT and in the format YYYYMMDDHH24MISS e.g. 20230211061625.

The ‘From Role’ is ‘SO’ for National Electricity Transmission System Operator (NETSO) and ‘NG’ the participant code for National Grid. The ‘To Role’ is ‘BP’ for BSC Party and the Participant ID relevant to the recipient supplier, if available in MSM.

The sequence number contains the version of that invoice CSV file starting at 1.

The final header record field, test data flag, contains ‘OPER’ or blank for operational data and any other value is considered test data, please see a sample header record below.

AAA,TNUDIN02,D,20230731102738,SO,NG,BP,TEST1,1,OPER

TNUDIN02 is used to distinguish that the value provided in the field "DINV1,Infrastructure Demand – HH” contains only HH values and EE is a separate line on the invoice whereas TNUDIN01 represented a combined HH+EE value.

The footer record consists of the record type ‘ZZZ’ and a field containing the number of records in the file, including the header and footer records, see sample below.

ZZZ,20

The data records consist of five sections, the invoice header details, invoice details, charge details, charge totals and a payment section. Each section is separated by a section separator line, see sample below.

BLANK

The invoice header section contains a standard title record and one or more header records with the record type format ‘INHD’ followed by an incremental number. The invoice CSV file header records display an invoice disclaimer and the type of invoice, see sample below.

SCHDR,InvoiceDetails

INHD1,THIS IS NOT A VAT INVOICE

INHD2,TNUoS Charges

The invoice details section contains the supplier account and invoice details. The type of document for TNUoS invoice CSV is ‘SALESINVOICE’. The Company Name is displayed followed by the Account ID, then the invoice number, which is up to ten characters, and the invoice date in the format DD.MM.YYYY. Your Order reference is either the supplier PO number, if available, or standard text e.g. ‘TNUoS Monthly’. Our Reference is MSM\_TNUoS\_nnnnnnnnnnnn where nnnnnnnnnnnn is the internal MSM Bill reference, twelve digits, see invoice details sample below.

SCTTL,Type,Company,Account,InvoiceNumber,InvoiceDate,YourOrderReference,OurBillingReference

INTTL,SALESINVOICE,GoTo Energy UK Limited,3384567,80223345, 01.04.2023,TNUoS Monthly,MSM\_TNUoS\_123456789012

The details section contains the invoice lines and charges excluding VAT. The charge description is followed by the charge excluding VAT and the VAT amount. For TNUoS Demand there are three charge lines but this section could accommodate several charge lines, see sample below.

SCDET,Description,ValueExclVAT,VATAmount

DINV1,Infrastructure Demand - HH,145301.74,29060.35

DINV1,Infrastructure Demand - EE,-79750.63,0.00

DINV1,Infrastructure Demand - NHH,564.43,112.89

DINV1,Infrastructure Demand - TDR,4633893.78,926778.76

The section totals contain the invoice total excluding VAT, the VAT total and the invoice total including VAT, see sample below.

SCTOT,TotalExclVAT,TotalVATAmount,TotalIncVAT

INTOT,4700009.32,955952.00,5655961.32

The payment section displays the payment due date format DD.MM.YYYY, see sample below.

SCFTR,PaymentDueDate

INFTR,15.04.2023

The source data table below displays the source information in a logical format with record type, attribute, attribute description and format, excel column reference, data type and length (maximum), a sample value and whether mandatory or optional.

**TNUoS Demand Invoice CSV data format table**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Record Type** | **Attribute Group** | **Attribute**  | **Attribute description and format** | **Excel Column Reference** | **Data Type** | **Sample Value** | **Mandatory/Optional** |
| Header | AAA | Record Type | Section File Header Record Type - constant 'AAA' | A | text (5) | AAA | Mandatory |
| Header |   | File Type | File Type and version of Interface. The first 4 characters is the billing stream reference (e.g. TNUD), the fifth and sixth characters the document type identifier (e.g. IN - Invoice) and the final 2 characters the CSV layout version defined in this document | B | text (8) | TNUDIN02 | Mandatory |
| Header |   | Message Role | Message Role, 'D' for Data or 'R' for Response - constant 'D' | C | text (1) | D | Mandatory |
| Header |   | Creation Time | System datetime in GMT - format YYYYMMDDHH24MISS  | D | datetime | 20230731102738 | Mandatory |
| Header |   | From Role Code | Role Code for NETSO - constant 'SO' | E  | text (2) | SO | Mandatory |
| Header |   | From Participant  | Participant code for National Grid ESO - constant 'NG' | F | text(4) | NG | Mandatory |
| Header |   | To Role Code | To Role code for BSC Party - constant 'BP' | G | text (2) | BP | Mandatory |
| Header |   | To Participant ID | BSC Party Market Participant ID or blank if no BSC Party ID available  | H | text (8) | TEST1 | Optional |
| Header |   | Sequence Number | Data version control for the CSV file with 1 being the first version of that invoice CSV file | I | num (9) | 1 | Mandatory |
| Header |   | Test data flag | If the field contains 'OPER' or blank this is operational data, else consider TEST data | J | text (4) | OPER | Mandatory |
| Data | SCHDR | Record Type | Section Invoice Header Record type - constant 'SCHDR' | A | text (5)  | SCHDR | Mandatory |
| Data |   | Invoice Details Title | Invoice Header Section Title - constant 'InvoiceDetails' | B | text (64) | InvoiceDetails | Mandatory |
| Data | INHD1 | Record Type | Invoice Header 1 Record Type - constant 'INHD1' | A | text (5)  | INHD1  | Mandatory |
| Data |   | Invoice Disclaimer | Invoice Header 1 - constant 'THIS IS NOT A VAT INVOICE' | B | text (64) | THIS IS NOT A VAT INVOICE | Mandatory |
| Data | INHD2 | Record Type | Invoice Header 2 Record Type - constant 'INHD2' | A | text (5)  | INHD2 | Mandatory |
| Data |   | TNUoS Charges | Invoice Header 2 Invoice Description | B | text (64) | TNUoS Charges | Mandatory |
| Data | BLANK | Record Type | Blank Line Record Type - constant 'BLANK' | A | text (5)  | BLANK | Mandatory |
| Data | SCTTL | Record Type | Section Invoice Details (Header) Record Type - constant 'SCTTL' | A | text (5)  | SCTTL | Mandatory |
| Data |   | Type Title | Column Section Title - Type of Document - constant 'Type' | B | text (64) | Type | Mandatory |
| Data |   | Company Title | Column Section Title - Company Invoiced - constant 'Company' | C | text (64) | Company | Mandatory |
| Data |   | Account Title | Column Section Title - Account ID Invoiced - constant 'Account' | D | text (64) | Account | Mandatory |
| Data |   | Invoice Number Title | Column Section Title - Document ID - constant 'InvoiceNumber' | E | text (64) | InvoiceNumber | Mandatory |
| Data |   | Invoice Date Title | Column Section Title - Invoice Date - constant 'InvoiceDate' | F | text (64) | InvoiceDate | Mandatory |
| Data |   | Your Order Reference Title | Column Section Title - Your Order Reference - constant 'YourOrderReference' | G | text (64) | YourOrderReference | Mandatory |
| Data |   | Our Billing Reference Title | Column Section Title - Our Billing Reference - constant 'OurBillingReference' | H | text (64) | OurBillingReference | Mandatory |
| Data | INTTL | Record Type | Section Invoice Details (Data) Record Type - constant 'INTTL' | A | text (5)  | INTTL | Mandatory |
| Data |   | Type | Type of Document e.g. for invoice CSV - constant 'SALESINVOICE' | B | text (64) | SALESINVOICE | Mandatory |
| Data |   | Company | Name of Company Invoiced  | C | text(64) | GoTo Energy UK Limited | Mandatory |
| Data |   | Account | Account ID of Company Invoiced - up to 10 digits | D | num (10) | 3384567 | Mandatory |
| Data |   | Invoice Number | Invoice Number - up to 10 digits | E | num (10) | 80223345 | Mandatory |
| Data |   | Invoice Date | Invoice Generation Date - date format DD.MM.YYYY  | F | date | 01.04.2023 | Mandatory |
| Data |   | Your Order Reference | PO Number if supplied, else standard text  | G | text (64) | TNUoS Monthly | Mandatory |
| Data |   | Our Billing Reference | National Grid ESO Billing Reference - MSM\_<Division Reference>\_<Internal Bill Reference (12 digits)>  | H | text (30) | MSM\_TNUoS\_123456789012 | Mandatory |
| Data | BLANK | Record Type | Blank Line Record Type - constant 'BLANK' | A | text (5)  | BLANK | Mandatory |
| Data | SCDET | Record Type | Section Detail (Header) Record Type - constant 'SCDET' | A | text (5)  | SCDET | Mandatory |
| Data |   | Description Title | Column Section Title - Description - constant 'Description' | B | text (64) | Description | Mandatory |
| Data |   | Value Excluding VAT Title | Column Section Title - Invoice Value Excluding VAT - constant 'ValueExclVAT' | C | text (64) | ValueExclVAT  | Mandatory |
| Data |   | VAT Amount Title | Column Section Title - Invoice VAT Amount - constant 'VATAmount' | D | text (64) | VATAmount  | Mandatory |
| Data Level 1 | DINV1 | Record Type | Section Detail (Data) Invoice Line 1 Record Type - constant 'DINV1'.  | A | text (5)  | DINV1 | Mandatory |
| Data Level 1 |   | Description | Invoice Line Description  | B | text (64) | Infrastructure Demand - HH | Mandatory |
| Data Level 1 |   | Value Excluding VAT | Invoice Line Value Excluding VAT in GBP for NHH Demand | C | decimal (15,2) | 145301.74 | Mandatory |
| Data Level 1 |   | VAT Amount | Invoice Line VAT Amount in GBP | D | decimal (15,2) | 29060.35 | Mandatory |
| Data Level 1 | DINV1 | Record Type | Section Detail (Data) Invoice Line 2 Record Type - constant 'DINV1'.  | A | text (5)  | DINV1 | Mandatory |
| Data Level 1 |   | Description | Invoice Line Description  | B | text (64) | Infrastructure Demand - EE | Mandatory |
| Data Level 1 |   | Value Excluding VAT | Invoice Line Value Excluding VAT in GBP for EE Demand | C | decimal (15,2) | -79750.63 | Mandatory |
| Data Level 1 |   | VAT Amount | Invoice Line VAT Amount in GBP | D | decimal (15,2) | 0.00 | Mandatory |
| Data Level 1 | DINV1 | Record Type | Section Detail (Data) Invoice Line 3 Record Type - constant 'DINV1'.  | A | text (5)  | DINV1 | Mandatory |
| Data Level 1 |   | Description | Invoice Line Description  | B | text (64) | Infrastructure Demand - NHH | Mandatory |
| Data Level 1 |   | Value Excluding VAT | Invoice Line Value Excluding VAT in GBP for HH Demand | C | decimal (15,2) | 564.43 | Mandatory |
| Data Level 1 |   | VAT Amount | Invoice Line VAT Amount in GBP | D | decimal (15,2) | 112.89 | Mandatory |
| Data Level 1 | DINV1 | Record Type | Section Detail (Data) Invoice Line 4 Record Type - constant 'DINV1'.  | A | text (5)  | DINV1 | Mandatory |
| Data Level 1 |   | Description | Invoice Line Description  | B | text (64) | Infrastructure Demand - TDR | Mandatory |
| Data Level 1 |   | Value Excluding VAT | Invoice Line Value Excluding VAT in GBP for TDR | C | decimal (15,2) | 4633893.78 | Mandatory |
| Data Level 1 |   | VAT Amount | Invoice Line VAT Amount in GBP | D | decimal (15,2) | 926778.76 | Mandatory |
| Data | BLANK | Record Type | Blank Line Record Type - constant 'BLANK' | A | text (5)  | BLANK | Mandatory |
| Data | SCTOT | Record Type | Section Invoice Total (Header) Record Type - constant 'SCTOT' | A | text (5)  | SCTOT | Mandatory |
| Data |   | Total Excluding VAT Title | Column Section Title - Invoice Total Excluding VAT - constant 'TotalExclVAT' | B | text (64) | TotalExclVAT | Mandatory |
| Data |   | Total VAT Amount Title | Column Section Title - Invoice Total VAT - constant TotalVATAmount' | C | text (64) | TotalVATAmount | Mandatory |
| Data |   | Total Including VAT Title | Column Section Title - Invoice Total Including VAT - constant 'TotalIncVAT' | D | text (64) | TotalIncVAT | Mandatory |
| Data | INTOT | Record Type | Section Invoice Total (Data) Record Type - constant 'INTOT' | A | text (5)  | INTOT | Mandatory |
| Data |   | Total Excluding VAT | Invoice Total Excluding VAT in GBP | B | decimal (15,2) | 4700009.32 | Mandatory |
| Data |   | Total VAT Amount | Invoice Total VAT in GBP | C | decimal (15,2) | 955952.00 | Mandatory |
| Data |   | Total Including VAT | Invoice Total Including VAT in GBP  | D | decimal (15,2) | 5655961.32 | Mandatory |
| Data | BLANK | Record Type | Blank Line Record Type - constant 'BLANK' | A | text (5)  | BLANK | Mandatory |
| Data | SCFTR | Record Type | Payment Section (Header) Record Type - constant 'SCFTR' | A | text (5)  | SCFTR | Mandatory |
| Data |   | Payment Due Date Title | Column Section Title - Payment Due Date - constant 'PaymentDueDate' | B | text (64) | PaymentDueDate | Mandatory |
| Data | INFTR | Record Type | Payment Section (Data) Record Type - constant 'INFTR' | A | text (5)  | INFTR | Mandatory |
| Data |   | Payment Due Date | Payment Due Date - date format DD.MM.YYYY  | B | date | 15.04.2023 | Mandatory |
| Footer | ZZZ | Record Type | Section File Footer Record Type - constant 'ZZZ' | A | text (5) | ZZZ | Mandatory |
| Footer |   | Record Count | Count of records including header and footer | B | num (10) | 20 | Mandatory |

**TNUoS Demand Backing Sheet CSV description – layout version 02**

The header record with record type ‘AAA’ consists of the file type and version, the message role, the creation time, the ‘from role’ and ‘from participant’, the ‘to role’ code and ‘to participant’ ID, the sequence number and the test data flag.

The file type for the backing sheet CSV file consists of eight characters, the first four characters a reference for the billing stream e.g. TNUD, the fifth and sixth characters a document type reference e.g. BS for backing sheet and the final two characters the document layout version e.g. 01.

The message role containing either ‘D’ for data or ‘R’ for response will always be ‘D’ for data.

The creation time is the system date and time in GMT and in the format YYYYMMDDHH24MISS e.g. 20230731102738.

The ‘From Role’ is ‘SO’ for National Electricity Transmission System Operator (NETSO) and ‘NG’ the participant code for National Grid. The ‘To Role’ is ‘BP’ for BSC Party and the Participant ID relevant to the recipient supplier, if available in MSM.

The sequence number contains the version of that backing sheet CSV file starting at 1.

The final header record field, test data flag, contains ‘OPER’ or blank for operational data and any other value is considered test data, please see a sample header record below.

AAA,TNUDBS02,D,20230731102738,SO,NG,BP,TEST1,1,OPER

The footer record consists of the record type ‘ZZZ’ and a field containing the number of records in the file, including the header and footer records, see sample below.

ZZZ,137

The data records consist of six sections, the backing sheet header, TNUoS tariffs and BMU forecast liabilities for HH, NHH and EE, TDR site count days and charges, TDR breakdown and totals and queries. Each section is separated by a section separator line, see sample below.

BLANK

The backing sheet header section contains eight records starting with a document description and a title for the backing sheet. The subsequent records display the month and year, the company name, the invoice number, an internal reference for the document comprising MSM\_TNUoS\_<MSM Bill Reference> where MSM Bill Reference is a twelve digit field, the payment due date and backing sheet creation date in the format DD.MM.YYYY, see sample below.

SCHDR,BackingDetails

BSHD1,Backing Information for Monthly TNUoS Demand Charges

BSHD2,SEPTEMBER 2023

CNAME,Test Company Ltd

INVNO, 80023487

BLREF,MSM\_TNUoS\_123456789012

DUEDT,15.08.2023

BSPDT,01.08.2023

The BMU forecast liabilities and tariff details section displays one record for each BMU and comprises the demand zone ID and name, the HH, NHH and EE latest demand forecast consumption values, tariffs for HH, NHH and EE and the annual forecast liabilities rounded to 6 decimal places, see sample below. The HH+EE liability is calculated to be 0 and above i.e. no negative combined HH+EE liability.

SCDT1,BMUnitID,ZoneID,ZoneName,LatestForecastHHTriadDemand(kW), HHDemandTariff(£/kW), ForecastAnnualHHLiability£,LatestForecastEmbeddedExport(kW),EETariff(£/kW), ForecastAnnualEELiability£, ForecastAnnualHH+EELiability(FlooredZero)£, LatestForecastNHHEnergy(kWh),NHHTariff(p/kWh),ForecastAnnualNHHLiability£, ForecastAnnualHH+EE+NHHLiability(FlooredZero)£

BSDT1,2\_\_AAMZZ000,9,EASTERN,92847,57.953489,5380807.593343,15916, 3.436237,-54691.148090,5326116.445253,745,7.696135,5733.620575,5331850.065828

The TDR charges section comprises a line for each charging band and the annual site count days or latest annual UMS consumption using the P402 data, the tariff and total annual liability forecast, rounded to 6 decimal places, for that band, see sample below.

SCTDR,ChargingBand,AnnualSiteCountDays(SCD)orAnnualUMSConsumption(MWh), TDRTariff(£/Site/Day)orUMSTariff(p/kWh),AnnualTDRLiability£

BSTDR,LVN1,1500,620.891212,931336.818000

The section for totals contains the annual forecast liabilities, rounded to 6 decimal places, the total invoiced to date and monthly charged amount with the remaining months, remaining liability and current monthly invoice amount, see sample below.

SCTL1,TotalForecastAnnualHH+EE+NHHLiability£,TotalAnnualTDRLiability, TotalForecastAnnualDemandLiability£,InvoicedToDateExclVAT£, RemainingAnnualForecastLiability£, RemainingMonths, CurrentMonthlyInvoiceAmountExclVAT£

BSTL1,5331850.065828,931336.818000,6263186.883828,1936877.75,4326309.133828,7,618044.16

The TDR breakdown section contains details of the Site Counts and UMS Consumption per DNO, Registrant and Charging Band. A value of zero count days will be displayed as ’0’, see sample below.

SCDSO,DNO,RegistrantID,DOM,EHV1,EHV2,EHV3,EHV4,HV1,HV2,HV3,HV4,LV1,LV2,LV3,LV4,LVN1,LVN2,LVN3,LVN4,UMS

RICBS,ETLC,PILO,1,4,0,0,0,99,0,0,0,4,5,0,0,234,88,55,12,0.4500

The section for queries contains the queries title record and the National Grid ESO email address for TNUoS Demand queries, see sample below.

SCFTR,ForQueriesPleaseContact

BSFTR,TNUoS.queries@nationalgrideso.com

The source data table below displays the source information in a logical format with record type, attribute, attribute description and format, excel column reference, data type and length (maximum), a sample value and whether mandatory or optional.

**TNUoS Demand Backing Sheet CSV data format table**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Record Type** | **Attribute Group** | **Attribute**  | **Attribute Description and format** | **Excel Column Reference** | **Data Type** | **Sample Value** | **Mandatory/Optional** |
| Header | AAA | Record Type | Section File Header Record Type - constant 'AAA' | A | text (5) | AAA | Mandatory |
| Header |   | File Type | File Type and version of Interface. The first 4 characters is the billing stream reference (TNUD), the fifth and sixth characters the document type identifier (BS - Backing Sheet) and the final 2 characters the CSV layout version defined in this document | B | text (8) | TNUDBS02 | Mandatory |
| Header |   | Message Role | Whether the file contains data or a response - 'D' for Data or 'R' for Response - constant 'D' | C  | text (1) | D | Mandatory |
| Header |   | Creation Time | System datetime in GMT - format YYYYMMDDHH24MISS  | D | datetime | 20230731102738 | Mandatory |
| Header |   | From Role Code | SO' is the Role Code for NETSO - constant 'SO' | E | text (2) | SO | Mandatory |
| Header |  | From Participant | NG' is the code for National Grid ESO - constant 'NG' | F | text (4) | NG | Mandatory |
| Header |   | To Role Code | For BSC Party this is 'BP' - constant 'BP' | G | text (2) | BP | Mandatory |
| Header |   | To Participant ID | BSC Party Market Participant ID or blank if no BSC Party ID available | H | text (8) | TEST1 | Optional |
| Header |   | Sequence Number | Data version control for the backing sheet with 1 being the first version of that backing sheet | I | num (9) | 1 | Mandatory |
| Header |   | Test data flag | If the field contains 'OPER' or blank this is operational data, else consider this TEST data | J | text (4) | OPER | Mandatory |
| Data | SCHDR | Record Type | Section Header Record Type - constant 'SCHDR' | A | text (5)  | SCHDR | Mandatory |
| Data |   | Header Reference | Column Section Title - Details - constant 'BackingDetails' | B | text (64) | BackingDetails | Mandatory |
| Data | BSHD1 | Record Type | Section Backing Sheet Header Record Type - constant 'BSHD1' | A | text (5)  | BSHD1 | Mandatory |
| Data |   | Header Description | Section Backing Sheet Header - constant 'Backing Information for Monthly TNUoS Demand Charges' | B | text (64) | Backing Information for Monthly TNUoS Demand Charges | Mandatory |
| Data | BSHD2 | Record Type | Section Backing Sheet Header Record Type - constant 'BSHD2' | A | text (5)  | BSHD2 | Mandatory |
| Data |   | Header Description | Section Backing Sheet Header Description - 'Month Year' format 'MONTH YYYY' | B | text (14) | SEPTEMBER 2023 | Mandatory |
| Data | CNAME | Record Type | Section Supplier Name Record Type - constant 'CNAME' | A | text (5)  | CNAME | Mandatory |
| Data |   | Supplier Name | Supplier Name | B | text (60) | ACME UK Limited | Mandatory |
| Data | INVNO | Record Type | Section Invoice Number Record Type | A | text (5)  | INVNO | Mandatory |
| Data |   | Invoice Number | Invoice Number - up to 10 digits | B | num (10) | 80023487 | Mandatory |
| Data | BLREF | Record Type | Section Bill Reference Record Type - constant 'BLREF' | A | text (5)  | BLREF | Mandatory |
| Data |   | Our Reference Number | National Grid ESO Billing Reference - MSM\_<Division Reference>\_<Internal Bill Reference (12 digits)>  | B | text (30) | MSM\_TNUoS\_123456789012 | Mandatory |
| Data | DUEDT | Record Type | Section - constant 'DUEDT' | A | text (5)  | DUEDT | Mandatory |
| Data |   | Payment Due Date | Payment Due Date format DD.MM.YYYY | A | date | 15.08.2023 | Mandatory |
| Data | BSPDT | Record Type | Section - constant 'BSPDT' | A | text (5)  | BSPDT | Mandatory |
| Data |   | Backing Sheet Presentation Date | Backing Sheet Date format DD.MM.YYYY | A | date | 01.08.2023 | Mandatory |
| Data | BLANK | Record Type | Blank Line Record Type - constant 'BLANK' | A | text (5)  | BLANK | Mandatory |
| Data | SCDT1 | Record Type | Section BM Forecast Liabilities and Tariffs Record Type - constant 'SCDT1' | A | text (5)  | SCDT1 | Mandatory |
| Data |   | BM Unit ID Title | Column Section Title - BM Unit ID - constant 'BMUnitID' | B | text (64) | BMUnitID | Mandatory |
| Data |   | Zone ID Title | Column Section Title - Zone ID - constant 'ZoneID' | C | text (64) | ZoneID | Mandatory |
| Data |   | Zone Name Title | Column Section Title - Zone Name - constant 'ZoneName' | D | text (64) | ZoneName | Mandatory |
| Data |   | Latest Forecast HH Triad Demand (kW) Title | Column Section Title - Latest Forecast Half Hourly (HH) Triad Demand - constant 'LatestForecastHHTriadDemand(kW)' | E | text (64) | LatestForecastHHTriadDemand(kW) | Mandatory |
| Data |   | HH Demand Tariff (£/kW) Title | Column Section Title - HH Demand Tariff - constant 'HHDemandTariff(£/kW)' | F | text (64) | HHDemandTariff(£/kW) | Mandatory |
| Data |   | Forecast Annual HH Liability (£) Title | Column Section Title - Forecast Annual HH Liability - constant 'ForecastAnnualHHLiability£' | G | text (64) | ForecastAnnualHHLiability£ | Mandatory |
| Data |   | Latest Forecast Embedded Export (kW) Title | Column Section Title - Latest Forecast Embedded Export (EE) - constant 'LatestForecastEmbeddedExport(kW)' | H | text (64) | LatestForecastEmbeddedExport(kW) | Mandatory |
| Data |   | EE Tariff (£/kw) Title | Column Section Title - EE Tariff - constant 'EETariff(£/kW)' | I | text (64) | EETariff(£/kW) | Mandatory |
| Data |   | Forecast Annual EE Liability (£) Title | Column Section Title - Forecast Annual EE Liability - constant 'ForecastAnnualEELiability£' | J | text (64) | ForecastAnnualEELiability£ | Mandatory |
| Data |   | Forecast Annual HH + EE Liability (£) Title | Column Section Title - Forecast Annual HH + EE Liability - constant 'ForecastAnnualHH+EELiability(FlooredZero)£' | K | text (64) | ForecastAnnualHH+EELiability(FlooredZero)£ | Mandatory |
| Data |   | Latest Forecast Annual NHH Energy (kWh) Title | Column Section Title - Latest Forecast Non Half Hourly (NHH) Energy - constant 'LatestForecastNHHEnergy(kWh)' | L | text (64) | LatestForecastNHHEnergy(kWh) | Mandatory |
| Data |   | NHH Tariff (p/kWh) Title | Column Section Title - NHH Tariff - constant 'NHHTariff(p/kWh)' | M | text (64) | NHHTariff(p/kWh) | Mandatory |
| Data |   | Forecast Annual NHH Liability (£) Title | Column Section Title - Forecast Annual NHH Liability - constant 'ForecastAnnualNHHLiability£' | N | text (64) | ForecastAnnualNHHLiability£ | Mandatory |
| Data |   | Forecast Annual HH + EE + NHH Liability (£) Title | Column Section Title - Forecast Annual HH + EE + NHH Liability - constant 'ForecastAnnualHH+EE+NHHLiability(FlooredZero)£' | O | text (64) | ForecastAnnualHH+EE+NHHLiability(FlooredZero)£ | Mandatory |
| Data Level 1 | BSDT1 | Record Type | Section BM Forecast Liabilities and Tariffs Lines Record Type - constant 'BSDT1' | A | text (5) | BSDT1 | Mandatory |
| Data Level 1 |   | BM Unit ID  | BM Unit ID | B | text (64) | 2\_\_AAMZZ000 | Mandatory |
| Data Level 1 |   | Zone ID  | Demand Zone Number | C | num (2) | 9 | Mandatory |
| Data Level 1 |   | Zone Name  | Demand Zone Name | D | text (30) | EASTERN | Mandatory |
| Data Level 1 |   | Latest Forecast HH Triad Demand (kW) | Latest Forecasted Annual HH Supplier Demand (kW) | E | num (16) | 92847 | Mandatory |
| Data Level 1 |   | HH Demand Tariff (£/kW) | Half Hourly Demand Tariff (£/kW) | F | decimal (10,6) | 57.953489 | Mandatory |
| Data Level 1 |   | Forecast Annual HH Liability (£) | Forecasted Annual HH Liability (£) | G | decimal (15,6) | 5380807.593343 | Mandatory |
| Data Level 1 |   | Latest Forecast Embedded Export (kW) | Latest Forecasted Annual EE (kW) | H | num (16) | 15916 | Mandatory |
| Data Level 1 |   | EE Tariff (£/kw) | Half Hourly EE Demand Tariff (£/kW) | I | decimal (10,6) | 3.436237 | Mandatory |
| Data Level 1 |   | Forecast Annual EE Liability (£) | Annual EE Forecast Liability (£) | J | decimal (15,6) | -54691.148090 | Mandatory |
| Data Level 1 |   | Forecast Annual HH + EE Liability (£) | Forecasted Annual HH + EE Liability (Floored Zero) (£) | K | decimal (15,6) | 5326116.445253 | Mandatory |
| Data Level 1 |   | Latest Forecast Annual NHH Energy (kWh) | Latest Annual NHH Supplier Demand Forecast (kWh) | L | num (16) | 745 | Mandatory |
| Data Level 1 |   | NHH Tariff (p/kWh) | NHH Demand Tariff (p/kWh) | M | decimal (10,6) | 7.696135 | Mandatory |
| Data Level 1 |   | Forecast Annual NHH Liability (£) | Forecasted Annual NHH Liability (£) | N | decimal (15,6) | 5733.620575 | Mandatory |
| Data Level 1 |   | Forecast Annual HH + EE + NHH Liability (£) | Forecasted Annual HH + EE + NHH Liability (HH+EE Floored Zero) (£) | O | decimal (15,6) | 5331850.065828 | Mandatory |
| Data | BLANK | Record Type | Blank Line Record Type - constant 'BLANK' | A | text (5)  | BLANK | Mandatory |
| Data | SCTDR | Record Type | Section - TDR breakdown - constant 'SCTDR' | A | text (5)  | SCTDR | Mandatory |
| Data |   | Charging Band Title | Column Section Title - Charging Band - constant 'ChargingBand' | B | text (64) | ChargingBand | Mandatory |
| Data |   | Annual Site Count Days or Annual UMS consumption (MWh) Title | Column Section Title - Annual Site Count Days or Annual UMS Consumption - constant 'AnnualSiteCountDays(SCD)orAnnualUMSConsumption(MWh)' | C | text (64) | AnnualSiteCountDays(SCD)orAnnualUMSConsumption(MWh) | Mandatory |
| Data |   | TDR Tariff (£/site/day) or UMS Tariff (p/kWh) Title | Column Section Title - TDR Tariff or UMS Tariff - constant 'TDRTariff(£/Site/Day)orUMSTariff(p/kWh)' | D | text (64) | TDRTariff(£/Site/Day)orUMSTariff(p/kWh) | Mandatory |
| Data |   | Annual TDR and TCS Liability (£) Title | Column Section Title – Annual TDR and TCS Liability - constant 'AnnualTDRLiability£' | E | text (64) | AnnualTDRLiability£ | Mandatory |
| Data Level 1 | BSTDR | Record Type | Section TDR - constant 'BSTDR'. This section is repeated for each Charging Band | A | text (5)  | BSTDR | Mandatory |
| Data Level 1 |   | Charging Band  | Charging Band Code (DOM, EHV1, EHV2, EHV3, EHV4, HV1, HV2, HV3, HV4, LV1, LV2, LV3, LV4, LVN1, LVN2, LVN3, LVN4, TRN1, TRN2, TRN3, TRN4, UMS)  | B | text (5)  | LVN1 | Mandatory |
| Data Level 1 |   | Annual Site Count Days or Annual UMS consumption | Annual Site Count Days (SCD) or Annual UMS Consumption (MWh) | C | SCD - num (10)/UMS - decimal (16,4) | 1500 | Mandatory |
| Data Level 1 |   | TDR Tariff per site per day or UMS Tariff | TDR Tariff (£/Site/Day) or UMS Tariff (p/kWh) | D | decimal (10,6) | 620.891212 | Mandatory |
| Data Level 1 |   | Annual TDR and TCS Liability (£)  | Annual TDR and TCS Liability (£)  | E | decimal (15,6) | 931336.818000 | Mandatory |
| Data | BLANK | Record Type | Blank Line Record Type - constant 'BLANK' | A | text (5)  | BLANK | Mandatory |
| Data | SCTL1 | Record Type | Section Supplier Level Totals Record Type - constant 'SCTL1' | A | text (5)  | SCTL1 | Mandatory |
| Data |   | Total Forecast Annual HH + EE + NHH Liability (£) Title | Column Section Title - Total Forecast Annual HH + EE + NHH Liability - constant 'TotalForecastAnnualHH+EE+NHHLiability£' | B | text (64) | TotalForecastAnnualHH+EE+NHHLiability£ | Mandatory |
| Data |   | Total Annual TDR and TCS Liability (£) Title | Column Section Title - Total Annual TDR and TCS Liability - constant 'TotalAnnualTDRLiability£' | C | text (64) | TotalAnnualTDRLiability£ | Mandatory |
| Data |   | Total Forecast Annual Demand Liability (£) Title | Column Section Title - Total Forecast Annual Demand Liability - constant 'TotalForecastAnnualDemandLiability£' | D | text (64) | TotalForecastAnnualDemandLiability£ | Mandatory |
| Data |   | Invoiced To Date Excluding VAT (£) Title | Column Section Title - Charging Band - constant 'InvoicedToDateExclVAT£' | E | text (64) | InvoicedToDateExclVAT£ | Mandatory |
| Data |   | Remaining Annual Forecast Liability (£) Title | Column Section Title - Charging Band - constant 'RemainingAnnualForecastLiability£' | F | text (64) | RemainingAnnualForecastLiability£ | Mandatory |
| Data |   | Remaining Months Title | Column Section Title - Charging Band - constant 'RemainingMonths' | G | text (64) | RemainingMonths | Mandatory |
| Data |   | Current Monthly Invoice Amount Excluding VAT (£) Title | Column Section Title - Charging Band - constant 'CurrentMonthlyInvoiceAmountExclVAT£' | H | text (64) | CurrentMonthlyInvoiceAmountExclVAT£ | Mandatory |
| Data | BSTL1 | Record Type | Blank Line Record Type - constant 'BSTL1' | A | text (5) | BSTL1 | Mandatory |
| Data |   | Total Forecast Annual HH+EE+NHH Liability (£) | Total Forecast Annual HH+EE+NHH Liability (£) | B | decimal (15,6) | 5331850.065828 | Mandatory |
| Data |   | Total Annual TDR and TCS Liability (£) | Total Annual TDR and TCS Liability (£) | C | decimal (15,6) | 931336.818000 | Mandatory |
| Data |   | Total Forecast Annual Demand Liability (£) | Total Forecast Annual Demand Liability (£) | D | decimal (15,6) | 6263186.883828 | Mandatory |
| Data |   | Invoiced To Date Excluding VAT (£) | Total Invoiced To Date Excluding VAT (£) | E | decimal (15,2) | 1936877.75 | Mandatory |
| Data |   | Remaining Annual Forecast Liability (£) | Remaining Annual Forecast Liability (£) | F | decimal (15,6) | 4326309.133828 | Mandatory |
| Data |   | Remaining Months | Remaining Months | G | num (2) | 7 | Mandatory |
| Data |   | Current Monthly Invoice Amount Excluding VAT (£) | Current Monthly Invoice Amount Excluding VAT (£) | H | decimal (15,2) | 618044.16 | Mandatory |
| Data | BLANK | Record Type | Blank Line Record Type - constant 'BLANK' | A | text (5) | BLANK | Mandatory |
| Data | SCDSO | Record Type | Section TDR Breakdown Record Type - constant 'SCDSO'  | A | text (5)  | SCDSO | Mandatory |
| Data |   | DNO Name Title | Column Section Title - DNO Name - constant 'DNO' | B | text (5)  | DNO | Mandatory |
| Data |   | Registrant ID Title | Column Section Title - Registrant ID - constant 'RegistrantID' | C | text(14) | RegistrantID | Mandatory |
| Data |   | Charging Band Code 'DOM' Title | Column Section Title - Charging Band Code DOM - constant 'DOM' | D | text (5)  | DOM | Mandatory |
| Data |   | Charging Band Code 'EHV1' Title | Column Section Title - Charging Band Code EHV1 - constant 'EHV1' | E | text (5)  | EHV1 | Mandatory |
| Data |   | Charging Band Code 'EHV2' Title | Column Section Title - Charging Band Code EHV2 - constant 'EHV2' | F | text (5)  | EHV2 | Mandatory |
| Data |   | Charging Band Code 'EHV3' Title | Column Section Title - Charging Band Code EHV3 - constant 'EHV3' | G | text (5)  | EHV3 | Mandatory |
| Data |   | Charging Band Code 'EHV4' Title | Column Section Title - Charging Band Code EHV4 - constant 'EHV4' | H | text (5)  | EHV4 | Mandatory |
| Data |   | Charging Band Code 'HV1' Title | Column Section Title - Charging Band Code HV1 - constant 'HV1' | I | text (5)  | HV1 | Mandatory |
| Data |   | Charging Band Code 'HV2' Title | Column Section Title - Charging Band Code HV2 - constant 'HV2' | J | text (5)  | HV2 | Mandatory |
| Data |   | Charging Band Code 'HV3' Title | Column Section Title - Charging Band Code HV3 - constant 'HV3' | K | text (5)  | HV3 | Mandatory |
| Data |   | Charging Band Code 'HV4' Title | Column Section Title - Charging Band Code HV4 - constant 'HV4' | L | text (5)  | HV4 | Mandatory |
| Data |   | Charging Band Code 'LV1' Title | Column Section Title - Charging Band Code LV1 - constant 'LV1' | M | text (5)  | LV1 | Mandatory |
| Data |   | Charging Band Code 'LV2' Title | Column Section Title - Charging Band Code LV2 - constant 'LV2' | N | text (5)  | LV2 | Mandatory |
| Data |   | Charging Band Code 'LV3' Title | Column Section Title - Charging Band Code LV3 - constant 'LV3' | O | text (5)  | LV3 | Mandatory |
| Data |   | Charging Band Code 'LV4' Title | Column Section Title - Charging Band Code LV4 - constant 'LV4' | P | text (5)  | LV4 | Mandatory |
| Data |   | Charging Band Code 'LVN1' Title | Column Section Title - Charging Band Code LVN1 - constant 'LVN1' | Q | text (5)  | LVN1 | Mandatory |
| Data |   | Charging Band Code 'LVN2' Title | Column Section Title - Charging Band Code LVN2 - constant 'LVN2' | R | text (5)  | LVN2 | Mandatory |
| Data |   | Charging Band Code 'LVN3' Title | Column Section Title - Charging Band Code LVN3 - constant 'LVN3' | S | text (5)  | LVN3 | Mandatory |
| Data |   | Charging Band Code 'LVN4' Title | Column Section Title - Charging Band Code LVN4 - constant 'LVN4' | T | text (5)  | LVN4 | Mandatory |
| Data |   | UMS Consumption 'UMS' Title | Column Section Title - UMS Consumption - constant 'UMS' | U | text (5)  | UMS | Mandatory |
| Data Level 1 | RICBS | Record Type | Section TDR Breakdown Record Type - constant 'RICBS'. This section is repeated for each DNO and Registrant ID  | A | text (5)  | RICBS | Mandatory |
| Data Level 1 |   | DNO Name  | DNO Name | B | text (5)  | ETLC | Mandatory |
| Data Level 1 |   | Registrant ID  | Registrant ID | C | text (5)  | PILO | Mandatory |
| Data Level 1 |   | Site Count 'DOM'  | Charging Band Code DOM Site Count per DNO and Registrant | D | num (10) | 1 | Mandatory |
| Data Level 1 |   | Site Count 'EHV1' | Charging Band Code EHV1 Site Count per DNO and Registrant | E | num (10) | 4 | Mandatory |
| Data Level 1 |   | Site Count 'EHV2'  | Charging Band Code EHV2 Site Count per DNO and Registrant | F | num (10) | 0 | Mandatory |
| Data Level 1 |   | Site Count 'EHV3'  | Charging Band Code EHV3 Site Count per DNO and Registrant | G | num (10) | 0 | Mandatory |
| Data Level 1 |   | Site Count 'EHV4'  | Charging Band Code EHV4 Site Count per DNO and Registrant | H | num (10) | 0 | Mandatory |
| Data Level 1 |   | Site Count 'HV1' | Charging Band Code HV1 Site Count per DNO and Registrant | I | num (10) | 99 | Mandatory |
| Data Level 1 |   | Site Count 'HV2'  | Charging Band Code HV2 Site Count per DNO and Registrant | J | num (10) | 0 | Mandatory |
| Data Level 1 |   | Site Count 'HV3'  | Charging Band Code HV3 Site Count per DNO and Registrant | K | num (10) | 0 | Mandatory |
| Data Level 1 |   | Site Count 'HV4' | Charging Band Code HV4 Site Count per DNO and Registrant | L | num (10) | 0 | Mandatory |
| Data Level 1 |   | Site Count 'LV1' | Charging Band Code LV1 Site Count per DNO and Registrant | M | num (10) | 4 | Mandatory |
| Data Level 1 |   | Site Count 'LV2' | Charging Band Code LV2 Site Count per DNO and Registrant | N | num (10) | 5 | Mandatory |
| Data Level 1 |   | Site Count 'LV3' | Charging Band Code LV3 Site Count per DNO and Registrant | O | num (10) | 0 | Mandatory |
| Data Level 1 |   | Site Count 'LV4'  | Charging Band Code LV4 Site Count per DNO and Registrant | P | num (10) | 0 | Mandatory |
| Data Level 1 |   | Site Count 'LVN1' | Charging Band Code LVN1 Site Count per DNO and Registrant | Q | num (10) | 234 | Mandatory |
| Data Level 1 |   | Site Count 'LVN2'  | Charging Band Code LVN2 Site Count per DNO and Registrant | R | num (10) | 88 | Mandatory |
| Data Level 1 |   | Site Count 'LVN3'  | Charging Band Code LVN3 Site Count per DNO and Registrant | S | num (10) | 55 | Mandatory |
| Data Level 1 |   | Site Count 'LVN4'  | Charging Band Code LVN4 Site Count per DNO and Registrant | T | num (10) | 12 | Mandatory |
| Data Level 1 |   | UMS Consumption (MWh) | UMS Consumption (MWh) per DNO and Registrant | U | decimal (16,4) | 0.4500 | Mandatory |
| Data | BLANK | Record Type | Blank Line Record Type - constant 'BLANK' | A | text (5) | BLANK | Mandatory |
| Data | SCFTR | Record Type | Section Header for Queries Record Type - constant 'SCFTR' | A | text (5)  | SCFTR | Mandatory |
| Data |   | Queries Contact Information | Queries Contact Text - constant 'ForQueriesPleaseContact' | B | text (64) | ForQueriesPleaseContact | Mandatory |
| Data | BSFTR | Record Type | Section Header for Queries Record Type - constant 'BSFTR' | A | text (5)  | BSFTR | Mandatory |
| Data |   | Contact Email | Contact Email Address for Queries | B | text (255) | TNUoS.queries@nationalgrideso.com | Mandatory |
| Data | ZZZ | Record Type | Section File Footer Record Type - constant 'ZZZ' | A | text (5) | ZZZ | Mandatory |
| Data |   | Record Count | Count of records including header and footer | B | num (10) | 137 | Mandatory |

# Appendix

## Sample Files

* 23-24\_JUNE\_ABCEnergy\_7527786193\_DM.csv
* 23-24\_JUNE\_ABCEnergy\_DM.csv

The embedded zipped sample files have ANSI encoding & Windows-1252 character set.

Please utilise a native app to open and save (IE: notepad.exe) to ensure files are saved with the correct character set and as .CSV

 

The same sample files embedded below for opening in an Excel format.



## Glossary

|  |  |
| --- | --- |
| **Abbreviation** | **Description** |
| ANSI | American National Standards Institute |
| BMU | Balancing Mechanism Unit |
| BSC | Balancing and Settlement Code |
| BSUoS | Balancing Services Use of System Charges |
| CSV | Comma Separated Value |
| DNO | Distribution Network Operator |
| LF | Line Feed |
| NETSO | National Electricity Transmission System Operator |
| NGESO | National Grid Electricity System Operator |
| PDF | Portable Document Format |
| STAR | Settlements and Revenue System |
| TDR | Transmission Demand Residual |
| TNUoS | Transmission Network Use of System Charges |
| TSO | Transmission System Operator |
| UMS | Unmetered Supply |