**Data Specification Document**

**AAHEDC Supplier Invoice & Backing Sheet CSV Files**

**Version 2.0**

**21st June 2023**

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# Usage

# Revision Information

Classification: External Use

|  |  |  |  |
| --- | --- | --- | --- |
| **Author** | **Version** | **Date** | **Comments** |
| Data Services Team | 1 | 15th September 2022 | Initial Document |
| Comms and engagement | 1.1 | 12th December 2022 | Embedded CSV files removed |
| To be provided as zipped addendum files |
| Data Services Team | 1.2 | 14th February 2023 | Data type clarifications, highlighted in red, no layout or sample file changes. |
| Data Services Team | 2.0 | 21st June 2023 | Data type liability rounding updates, SVA/CVA Charge Unit type updates to Backing Sheet, layout version history table, embedded zipped samples. |

**Backing File Layout Version**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Charge** | **Document Type** | **Version** | **Bill Date** | **Comments** |
| AAHEDC | Invoice | AAHDIN01 | May 2023 | Initial Layout |
| AAHEDC | Backing Sheet | AAHDBS01 | May 2023 | Initial Layout |
| AAHEDC | Backing Sheet | AAHDBS02 | August 2023 | 6 decimal place liability rounding, CVA/SVA Charge Unit Types |

**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

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# Purpose

This Data Specification document describes the source data and formats for the AAHEDC invoice and backing sheet CSV files. National Grid Electricity System Operator (NGESO) publish quarterly invoice and backing sheet data to AAHEDC 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 AAHEDC quarterly 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 quarterly billing process for AAHEDC 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 AAHEDC charge, including tariff details and BMU consumption values.

For each supplier, the invoice and backing sheet CSV files will be sent quarterly 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

**AAHEDC Invoice CSV**

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

**File Format**: CSV File

**File Size**: < 1KB

**Frequency**: Quarterly

The AAHEDC Invoice CSV file is referenced using the filename <Supplier Name (no spaces)>\_<Invoice ID>.csv e.g. TestDataCompany\_80903322.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.

**AAHEDC Backing Sheet CSV**

**Filename**: <Financial Period>\_AAHEDC\_<Supplier Name>.csv

**File Format**: CSV File

**File Size**: < 1KB

**Frequency**: Quarterly

The AAHEDC Backing Sheet CSV file is referenced using the filename <Financial Period>\_AAHEDC\_<Supplier Name (no spaces)>.csv eg. 21-23\_Q1\_AAHEDC\_TestDataCompany.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 AAHEDC CSV file, invoice and backing sheet. Please also see the excel sheet below for the source tables.



**AAHEDC Invoice CSV description – version AAHDIN01**

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. AAHD, the fifth and sixth characters a document type reference e.g. IN for invoice and the final two characters the document 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. 20221021143000.

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,AAHDIN01,D,20220922171700,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,20

The data records consist of five sections, the invoice header, invoice details, charge details, charge totals and 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,AAHEDC Charges

The invoice details section contains the supplier account and references for that invoice. The type of document for invoice CSV files is ‘SALESINVOICE’. The Company Name is followed by the Account ID. The invoice number is up to ten digits and the invoice date in the format DD.MM.YYYY. Your reference is either the supplier PO number, if available, or standard text. Our reference is MSM\_AAHD\_nnnnnnnnnnnn where nnnnnnnnnnnn is the internal MSM Bill reference, twelve digits, see invoice details sample below.

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

INTTL,SALESINVOICE,TEST COMPANY LTD,0334567,80223345,12.09.2022,AAHEDC Quarterly,MSM\_AAHD\_992234009812

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 AAHEDC there is one charge line but more could be accommodated in this section, see sample below.

SCDET,Description,ValueExclVAT,VATAmount

DINV1,AAHEDC Scheme Energy Consumption Charge,235.12,47.00

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,235.12,12.47,247.59

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

SCFTR,PaymentDueDate

INFTR,10.10.2022

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.

**AAHEDC Invoice CSV data format table**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Record Type** | **Attribute Group** | **Attribute** | **Attribute description and transformation** | **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 (eg. AAHD), the fifth and sixth characters the document type identifier (eg. IN - Invoice) and the final 2 characters the CSV layout version defined in this document | B | text (8) | AAHDIN01 | Mandatory |
| Header |  | Message Role | Message Role, 'D' for Data or 'R' for Response - constant 'D' | C | char | D | Mandatory |
| Header |  | Creation Time | System datetime in GMT - format YYYYMMDDHH24MISS | D | datetime | 20210121150700 | Mandatory |
| Header |  | From Role Code | Role Code for NETSO - constant 'SO' | E | text (2) | SO | Mandatory |
| Header |  | From Participant ID | 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) | ACME | Optional |
| Header |  | Sequence Number | Data version control for the CSV file with 1 being the first version of that invoice CSV file | I | integer(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 | 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 |  | Invoice Description | Invoice Header 2 Invoice Description | B | text (64) | AAHEDC 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 'YourOrder Reference' | 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 eg. 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) | 2991369 | Mandatory |
| Data |  | Invoice Number | Invoice Number – up to 10 digits | E | num(10) | 80183496 | Mandatory |
| Data |  | Invoice Date | Invoice Generation Date - date format DD.MM.YYYY | F | date | 15.02.2022 | Mandatory |
| Data |  | Your Order Reference | PO Number if supplied, else standard text | G | text(64) | AAHEDC Quarterly | Mandatory |
| Data |  | Our Billing Reference | National Grid ESO Billing Reference - MSM\_<Division Reference>\_<Internal Bill Reference (12 digits)> | H | text(30) | MSM\_AAHD\_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 | DINV1 | Record Type | Section Detail (Data) Invoice Line 1 Record Type - constant 'DINV' followed by the line number eg. '1'. This section can be repeated for each invoice line if more than one charge line applies | A | text (5) | DINV1 | Mandatory |
| Data |  | Description | Invoice Line Description | B | text (255) | AAHEDC Scheme Energy Consumption Charge | Mandatory |
| Data |  | Value Excluding VAT | Invoice Line Value Excluding VAT in GBP | C | decimal(15,2) | 2723.25 | Mandatory |
| Data |  | VAT Amount | Invoice Line VAT Amount in GBP | D | decimal(15,2) | 544.65 | 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) | 2723.25 | Mandatory |
| Data |  | Total VAT Amount | Invoice Total VAT in GBP | C | decimal(15,2) | 544.65 | Mandatory |
| Data |  | Total Including VAT | Invoice Total Including VAT in GBP | D | decimal(15,2) | 3267.90 | 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 | 15.03.2022 | 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 | integer (10) | 17 | Mandatory |

**AAHEDC Backing Sheet CSV description – version AAHDBS02**

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. AAHD, the fifth and sixth characters a document type reference e.g. BS for backing sheet and the final two characters the document 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 eg. 20221021143000.

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,AAHDBS02,D,20220922171700,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,35

The data records consist of five sections, the backing sheet header, run type details, AAHEDC tariffs, BMU consumption, charges and totals and queries. Each section is separated by a section separator line, see sample below.

BLANK

The backing sheet header section contains seven records starting with a document description and a title for the backing sheet. The subsequent records display the company name, invoice number of up to ten digits, an internal reference for the document comprising MSM\_AAHEDC\_<MSM Bill Reference> where MSM Bill Reference is a twelve digit field and the quarter start and end dates in the format DD.MM.YYYY, see sample below.

SCHDR,BackingDetails

BSHDR,Backing Information for Quarterly AAHEDC Scheme Charges

CNAME,Test Company Ltd

INVNO,10082345

BLREF,MSM\_AAHD\_990033409123

QRSTR,01.10.2022

QREND,31.12.2022

The run type details section displays the settlement run type information used in the AAHEDC charges calculations. The BM Unit Type (CVA or SVA) is displayed and for each BMU type and run type used in the calculations, the charge cycle, charge period, run type, date from and date to are displayed. The charge cycle or financial year, from 01.04.YYYY to 31.03.YYYY+1, is output in the format YYYY/YY. The charge period for AAHEDC is per quarter (Q1-Q4) and the date from and to in the format DD.MM.YYYY, see sample below.

SCSET,BMUType,SettlementChargeCycle,SettlementChargePeriod,RunType,DateFrom,DateTo

BSSET,CVA,2021/22,Q3,R2,01.10.2021,13.10.2021

BSSET,CVA,2021/22,Q3,R1,14.10.2021,15.10.2021

The tariff section shows the date that tariff was effective from in the format DD.MM.YYYY and the AAHEDC tariff values as pence per kWh to six decimal places, see sample below.

SCTRF,AAHEDCTariffEffectiveDate,OverallAAHEDCSchemeTariff(p/kWh),ShetlandTariff(p/kWh),AAHEDCTariffExclShetlandAssistanceAmount(p/kWh)

BSTRF,01.04.2021,0.040427,0.012049,0.028378

The BMU consumption and charges details section displays one record for each BMU and comprises the quarterly consumption and AAHEDC charges. The AAHEDC charges information consist of the Shetland quarterly charge, the quarterly charge excluding Shetland Assistance and the total quarterly charge for that BMU rounded to 6 decimal places. The supplier level section totals contain the total quarterly consumption, the total Shetland quarterly charge excluding VAT, the AAHEDC Quarterly charge excluding Shetland Assistance and VAT, rounded to 6 decimal places and the quarterly total charge excluding VAT, see sample below.

SCDET,BMUnitID,QuarterlyConsumption(kWh),ShetlandQuarterlyCharge(£)Excl VAT,AAHEDCQuarterlyChargeExclShetlandAssistanceAmount(£)Excl VAT,TotalQuarterlyCharge(£)ExclVAT

BSDET,2\_\_AAMZZ000,1324771,159.629923,375.942212,535.572135

BSDET,2\_\_BAMZZ000,984336,118.621112,279.337767,397.958879

BSTOT,Total,10896739,1312.952343,3092.288800,4405.24

Please note: The quarterly consumption is displayed as an integer but exists in the database as a decimal. Backing Sheet display checks could result in some slight differences in the totals displayed.

The section for queries contains a title record and the National Grid ESO email address for AAHEDC 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, transformation and format, excel column reference, data type and length (maximum), a sample value and whether mandatory or optional.

**AAHEDC Backing Sheet CSV data format table**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Record Type** | **Attribute Group** | **Attribute** | **Attribute Description** | **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 (AAHD), 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) | AAHDBS02 | Mandatory |
| Header |  | Message Role | Whether the file contains data or a response - 'D' for Data or 'R' for Response - constant 'D' | C | char | D | Mandatory |
| Header |  | Creation Time | System datetime in GMT - format YYYYMMDDHH24MISS | D | datetime | 20210104130742 | Mandatory |
| Header |  | From Role Code | SO' is the Role Code for NETSO - constant 'SO' | E | text (2) | SO | Mandatory |
| Header |  | From Participant ID | 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) | ACME | Optional |
| Header |  | Sequence Number | Data version control for the backing sheet with 1 being the first version of that backing sheet | I | integer(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 | BSHDR | Record Type | Section Backing Sheet Header Record Type - constant 'BSHDR' | A | text (5) | BSHDR | Mandatory |
| Data |  | Header Description | Backing Sheet Description - constant 'Backing Information for' followed by the type of backing sheet | B | text (255) | Backing Information for Quarterly AAHEDC Scheme Charges | 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\_AAHD\_123456789012 | Mandatory |
| Data | QRSTR | Record Type | Section Quarter Start Record Type - constant 'QRSTR' | A | text (5) | QRSTR | Mandatory |
| Data |  | Quarter Start Date | Quarter Start Date - format DD.MM.YYYY | A | date | 01.10.2021 | Mandatory |
| Data | QREND | Record Type | Section Quarter End Record Type - constant 'QREND' | A | text (5) | QREND | Mandatory |
| Data |  | Quarter End Date | Quarter End Date - format DD.MM.YYYY | A | date | 31.12.2021 | Mandatory |
| Data | BLANK | Record Type | Blank Line Record Type - constant 'BLANK' | A | text (5) | BLANK | Mandatory |
| Data | SCSET | Record Type | Section Settlement Run Type Details (Header) Record Type - constant 'SCSET' | A | text (5) | SCSET | Mandatory |
| Data |  | BMU Type | Column Section Title - BMU Unit Type - constant 'BMUType' | B | text(5) | BMUType | Mandatory |
| Data |  | Settlement Charge Cycle Title | Column Section Title - Settlement Charge Cycle - constant 'SettlementChargeCycle' | C | text (64) | SettlementChargeCycle | Mandatory |
| Data |  | Settlement Charge Period Title | Column Section Title - Settlement Charge Period - constant 'SettlementChargePeriod' | D | text (64) | SettlementChargePeriod | Mandatory |
| Data |  | Settlement Run Type Title | Column Section Title - Settlement Run Type - constant 'RunType' | E | text (64) | RunType | Mandatory |
| Data |  | Date From Title | Column Section Title - Run Type Used From - constant 'DateFrom' | F | text (64) | DateFrom | Mandatory |
| Data |  | Date To Title | Column Section Title - Run Type Used To - constant 'DateTo' | G | text (64) | DateTo | Mandatory |
| Data Level 1 | BSSET | Record Type | Section Settlement Run Type Details (Data) Record Type - constant 'BSSET'. This record line is repeated for each run type used in the charging period. | A | text (5) | BSSET | Mandatory |
| Data Level 1 |  | BMU Type | BMU Unit Type - CVA/SVA | B | text(5) | CVA | Mandatory |
| Data Level 1 |  | Settlement Charge Cycle | Settlement Charge Cycle eg. for AAHEDC the Financial Year - format <year from (YYYY)>/<year to (YY)> | C | char(8) | 2021/22 | Mandatory |
| Data Level 1 |  | Settlement Charge Period | Settlement Charge Period eg. for AAHEDC the Financial Quarter - format Q<quarter number> | D | text (2) | Q3 | Mandatory |
| Data Level 1 |  | Run Type | Settlement Run Type used for Charging | E | text (2) | R2 | Mandatory |
| Data Level 1 |  | Date From | The Date From the Settlement Run Type is used for Charging - format DD.MM.YYYY | F | date | 01.10.2021 | Mandatory |
| Data Level 1 |  | Date To | The Date To the Settlement Run Type is used for Charging - format DD.MM.YYYY | G | date | 13.10.2021 | Mandatory |
| Data | BLANK | Record Type | Blank Line Record Type - constant 'BLANK' | A | text (5) | BLANK | Mandatory |
| Data | SCTRF | Record Type | Section Tariff (Header) Record Type - constant 'SCTRF' | A | text (5) | SCTRF | Mandatory |
| Data |  | AAHEDC Tariff Effective Date Title | Column Section Title - AAHEDC Tariff Effective Date - constant 'AAHEDCTariffEffective Date' | B | text (64) | AAHEDCTariffEffectiveDate | Mandatory |
| Data |  | Overall AAHEDC Scheme Tariff (pence per/kWh) Title | Column Section Title - Overall AAHEDC Scheme Tariff per kWh - constant 'OverallAAHEDCSchemeTariff(p/kWh)' | C | text (64) | OverallAAHEDCSchemeTariff(p/kWh) | Mandatory |
| Data |  | Shetland Tariff (pence per/kWh) Title | Column Section Title - Shetland Tariff per kWh - constant 'ShetlandTariff(p/kWh)' | D | text (64) | ShetlandTariff(p/kWh) | Mandatory |
| Data |  | AAHEDC Tariff Excluding Shetland Assistance Amount (pence per/kWh) Title | Column Section Title - AAHEDC Tariff excluding Shetland Assistance Amount pence per kWh - constant 'AAHEDCTariffExclShetlandAssistanceAmount(p/kWh)' | E | text (64) | AAHEDCTariffExclShetlandAssistanceAmount(p/kWh) | Mandatory |
| Data Level 1 | BSTRF | Record Type | Section Tariff (Data) Record Type - constant 'BSTRF'. This record can be repeated if more than one tariff applies for the charging period. | A | text (5) | BSTRF | Mandatory |
| Data Level 1 |  | AAHEDC Tariff Effective Date | Date AAHEDC Tariff Effective From - format DD.MM.YYYY | B | date | 01.04.2021 | Mandatory |
| Data Level 1 |  | Overall AAHEDC Scheme Tariff (pence per/kWh) | AAHEDC Overall Tariff pence per kWh - 6 decimal places | C | decimal(10,6) | 0.040427 | Mandatory |
| Data Level 1 |  | Shetland Tariff (pence per/kWh) | AAHEDC Shetland Tariff pence per kWh - 6 decimal places | D | decimal(10,6) | 0.012049 | Mandatory |
| Data Level 1 |  | AAHEDC Tariff Excluding Shetland Assistance Amount (pence per/kWh) | AAHEDC Tariff excluding Shetland Assistance Amount pence per kWh - 6 decimal places | E | decimal(10,6) | 0.028378 | Mandatory |
| Data | BLANK | Record Type | Blank Line Record Type - constant 'BLANK' | A | text (5) | BLANK | Mandatory |
| Data | SCDET | Record Type | Section BMU Consumption & Tariff (Header) Record Type - constant 'SCDET' | A | text (5) | SCDET | Mandatory |
| Data |  | BM Unit ID Title | Column Section Title - BM Unit ID - constant 'BMUnitID' | B | text(64) | BMUnitID | Mandatory |
| Data |  | Quarterly Consumption (kWh) Title | Column Section Title - Quarterly Consumption in kWh - constant 'QuarterlyConsumption(kWh)' | C | text (64) | QuarterlyConsumption(kWh) | Mandatory |
| Data |  | Shetland Quarterly Charge(£) Excluding VAT Title | Column Section Title - Shetland Quarterly Charge excluding VAT - constant 'ShetlandQuarterlyCharge(£) ExclVAT' | D | text (64) | ShetlandQuarterlyCharge(£) ExclVAT | Mandatory |
| Data |  | AAHEDC Quarterly Charge Excluding Shetland Assistance Amount(£) Excluding VAT Title | Column Section Title - AAHEDC Quarterly Charge excluding Shetland Assistance Amount excluding VAT - constant 'AAHEDCQuarterlyChargeExclShetlandAssistanceAmount(£)ExclVAT' | E | text (64) | AAHEDCQuarterlyChargeExclShetlandAssistanceAmount(£)ExclVAT | Mandatory |
| Data |  | Total Quarterly Charge(£) Excluding VAT Title | Column Section Title - Total Quarterly Charge excluding VAT - constant 'TotalQuarterlyCharge(£)Excl VAT' | F | text (64) | TotalQuarterlyCharge(£)ExclVAT | Mandatory |
| Data Level 1 | BSDET | Record Type | Section BMU Consumption & Tariff (Data) Record Type - constant 'BSDET'. This section is repeated for each applicable BM Unit | A | text (5) | BSDET | Mandatory |
| Data Level 1 |  | BM Unit ID | BM Unit ID | B | text(64) | 2\_\_AAMZZ000 | Mandatory |
| Data Level 1 |  | Quarterly Consumption (kWh) | BMU Quarterly Consumption in kWh | C | num(15) | 1324771 | Mandatory |
| Data Level 1 |  | Shetland Quarterly Charge(£) Excluding VAT | Shetland Quarterly Charge (GBP) excluding VAT (BMU Quarterly consumption multiplied by Shetland tariff) | D | decimal(15,6) | 159.629923 | Mandatory |
| Data Level 1 |  | AAHEDC Quarterly Charge Excluding Shetland Assistance Amount(£) Excluding VAT | AAHEDC Quarterly Charge excluding Shetland Assistance Amount and excluding VAT (GBP) (BMU Quarterly consumption multiplied by AAHEDC Quarterly Charge excluding Shetland Assistance Amount) | E | decimal(15,6) | 375.942212 | Mandatory |
| Data Level 1 |  | Total Quarterly Charge(£) Excluding VAT | Total Quarterly Charge (GBP) (Shetland Quarterly Charge + AAHEDC Quarterly Charge excluding Shetland) | F | decimal(15,6) | 535.572135 | Mandatory |
| Data | BSTOT | Record Type | Section Supplier Level Totals Record Type - constant 'BSTOT' | A | text (5) | BSTOT | Mandatory |
| Data |  | Total | Row Level Title - constant 'Total' | B | text (64) | Total | Mandatory |
| Data |  | Quarterly Consumption (kWh) | Total Quarterly Consumption (kWh) for all Supplier BMUs | C | num(15) | 10896739 | Mandatory |
| Data |  | Shetland Quarterly Charge(£) Excluding VAT | Total Quarterly Shetland Charge (GBP) excluding VAT | D | decimal(15,6) | 1312.952343 | Mandatory |
| Data |  | AAHEDC Quarterly Charge Excluding Shetland Assistance Amount(£) Excluding VAT | Total Quarterly Charge (GBP) excluding Shetland Assistance Amount and VAT | E | decimal(15,6) | 3092.288800 | Mandatory |
| Data |  | Total Quarterly Charge(£) Excluding VAT | Total Quarterly Charge (GBP) excluding VAT | F | decimal(15,2) | 4405.24 | Mandatory |
| Data | BLANK | Record Type | Blank Line Record Type - constant 'BLANK' | A | text (5) | BLANK | Mandatory |
| Data | SCFTR | Record Type | SectionHeader 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 | SectionHeader 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 | integer (10) | 36 | Mandatory |

# Appendix

## Sample Files

Sample files are available in the zip file below:

* CLEANENERGYPVTLTD\_2345101232.csv
* 22-23\_Q4\_AAHEDC\_CLEANENERGYPVTLTD.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 |
| AAHEDC | Assistance for Areas with High Electricity Distribution Cost Scheme |
| BMU | Balancing Mechanism Unit |
| BSUoS | Balancing Services Use of System Charges |
| LF | Line Feed |
| CSV | Comma Separated Value |
| NETSO | National Electricity Transmission System Operator |
| NGESO | National Grid Electricity System Operator |
| PDF | Portable Document Format |
| STAR | Settlements and Revenue System |
| TNUoS | Transmission Network Use of System Charges |
| TSO | Transmission System Operator |