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| Public |
| BMRS API and Data Push User Guide |
| DRAFT |
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| ELEXON Architecture  Version 2.2  TERRE Final Stage Implementation 2019 |

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| BMRS API and Data Push User Guide |

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# Introduction

## The BMRS



**Application programming Interfaces (API),** in context of BMRS, is a set of programming instructions for participants to access BMRS data directly from their systems outside of the firewall

**TIBCO** is a third party software and provides the mechanism for automated publication of BMRS data to market participants via a dedicated line.

**Scripting** (sometimes referred to as scraping data from the website) is the process by which users run automated programs which simulate interactive access by searching for and downloading data from displayed web pages at a set frequency, sometimes several times a minute. Heavy scripting drastically slows the website which may lead to interactive customers experiencing timeout issues, resulting in the website becoming unusable.

The Balancing Mechanism Reporting Service (BMRS) is the primary channel for providing operational data relating to the GB Electricity Balancing and Settlement arrangements. It’s used extensively by market participants to help make trading decisions and understanding market dynamics, and acts as a prompt reporting platform as well as a means of accessing historic data. The BMRS has a wider user base both within and outside of the energy industry and includes traders, regulators, industry forecasting teams and academics.

The BMRS initially lacked useable web services and unless participants subscribed to the **TIBCO service** at additional cost, there were no practical means for machine-to-machine data retrieval. As a result, many market participants resorted to custom **scripting** to access data from the website, which had a negative impact on its overall performance.

Since September 2016, users are able to retrieve all the BMRS Data programmatically via:

* A **Representational State Transfer (REST)** **Application Programming Interface** (API); and
* **The Data Push Service** – A near real-time information publication capability from the BMRS system to industry participants.

## Purpose and Scope

### What is covered in this document?

This document is intended to provide guidance for users into how to use the API and include:

* Registration process and access
* Accessing data API and Uniform Resource Locator (URL)
* API functions such as search parameters
* Structure for API request
* Using and connecting to the Data Push Service

### Are there any prerequisites?

To use this document, an understanding of software development, web services and the BMRS user interface and its data is required. By using the API, users agree to the BMRS Data Terms of Use Policy.

### Can I access the data from the API by putting the URL in the web browser?

Yes – In this version of the API you can retrieve information using a web browser.

### What do I need to access the Data Push Service?

Further details on the Data Push Service are available in **Section 6** and a general checklist is included in **Section 9.**

### I am having difficulties interpreting some of the field types for the Data Push Service; where are they defined?

Section 8.5 provides definition of the message types and field types. The Data Push Service data content is based on the TIBCO Service and for further guidance on the data items and field types please refer to the [NETA Interface Definition and Design (IDD): Part 1](https://www.elexon.co.uk/bsc-and-codes/bsc-related-documents/interface-definition-documents/).

### What support does ELEXON provide for the API and Data Push Service?

ELEXON ensures that the API guidance document is updated and that the API and Data Push Service are functional. ELEXON has no obligation to provide further support beyond providing the API key, registration and access. Any technical assistance as a result of the API integration within your business processes will be your responsibility. To help users, ELEXON has provided sample codes for the API/Data Push in the Appendices of this document (Section 10 & Section 11) and will not provide support or additional codes for the API/Data Push.

## Getting Started

In summary, there are four steps required in using the API:

1. Register on the ELEXON Portal
2. Retrieve API Key
3. Use API Key to gain access to the API URL
4. Retrieve results from the API

These steps are detailed in the following sections of this document.

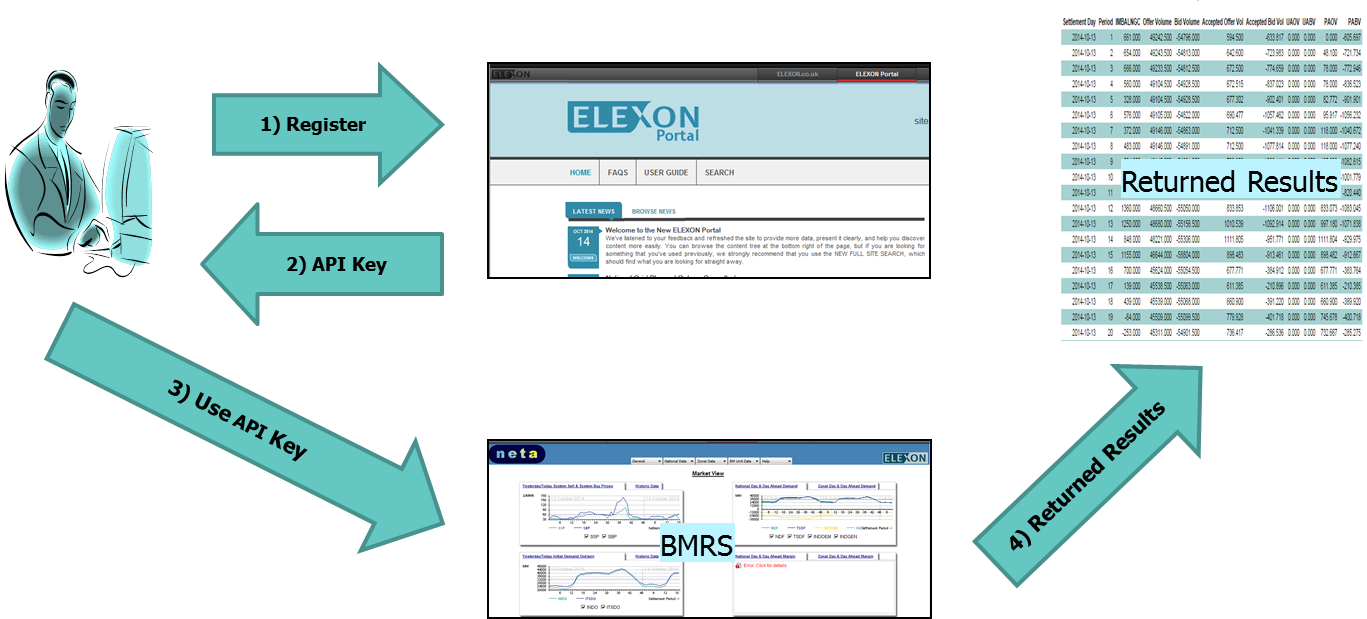
****

Figure 1: Steps to use API

For any queries please contact the BSC service desk: bscservicedesk@cgi.com

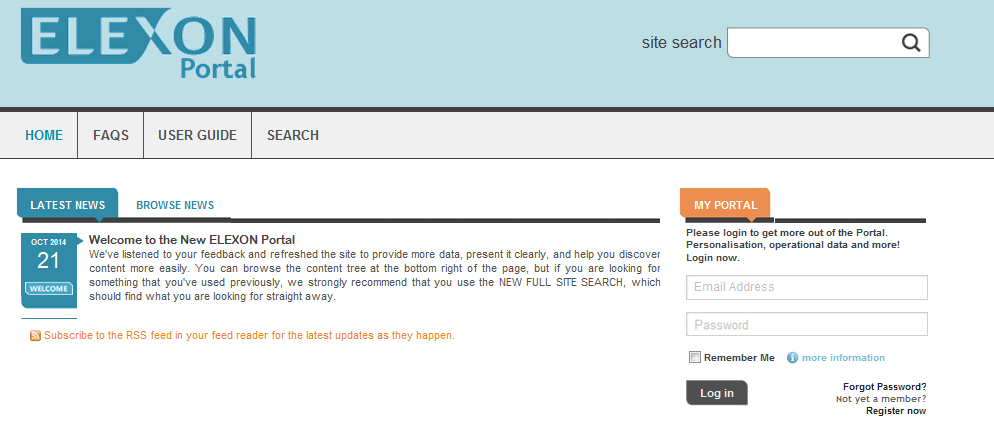
Registration Process

# ELEXON Portal Registration Process

## Accessing ELEXON Portal

The web address for the accessing the portal is https://www.elexonportal.co.uk/. You can also access this by clicking on the “ELEXON Portal” button at the top of the BMRS or ELEXON websites.

Once the page has loaded use your log in credentials to access the page or register as shown below.



**Log in**

**OR**

**Register**

Figure 2: Accessing the ELEXON Portal

## Registration

Follow the instructions on the screen to register.

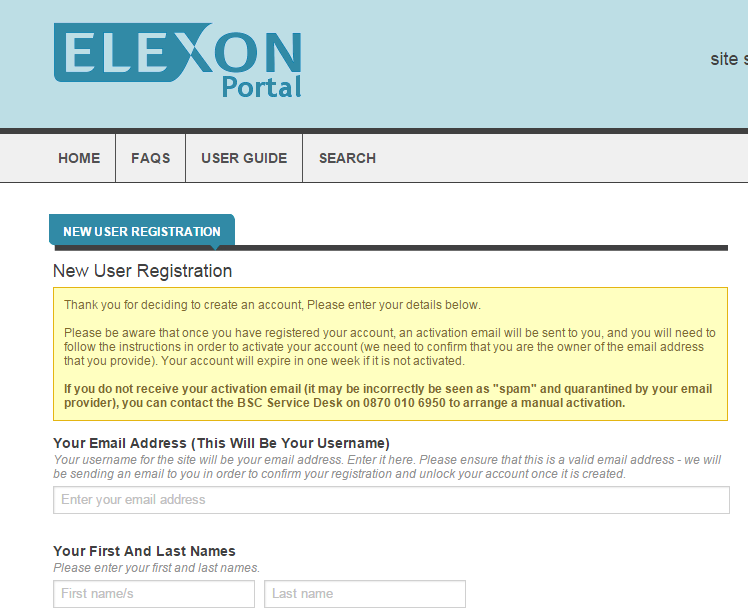


Figure 3: Portal registration screen

Once you have entered all the details, you will be asked to activate the account. A link and an activation code will be sent to the email address you used during the registration process.

# The API Key

The API key has three primary functions:

* Identify the program calling the API;
* Serves as authentication code; and
* Monitor and control usage for overall service protection.

Once you have registered, you will have access to a range of content available on the ELEXON Portal. To get your API Key, click on ‘my profile’ below and you will find the API key under scripting key.

Note: The key shown below is for illustration purposes and is not a valid key.

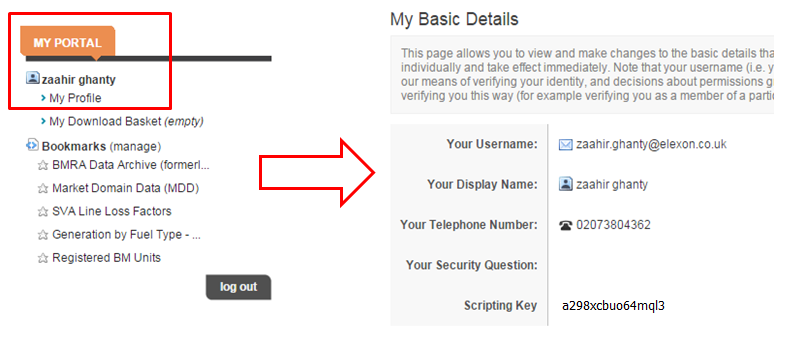


Figure 4: Retrieving API Key

Note: The API Key will also serve as authentication for the Data Push Service

Acessing the API

# Data available through APIs

This section of the document details the API design to enable the user to retrieve data from BMRS. In particular highlights the following:

* API Uniform Resource Identifier (URI)
* The search parameters which will be passed as input parameters in the API URIs
* Expected format for returned results

## API Design and Key Features

A sample URI is shown below.

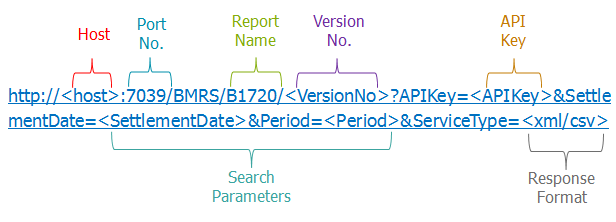


Figure 5: API URL example

* **Host address:** This is the first portion of the URI, and identifies the internet address of the BMRS;
* **Port Number:** The communications endpoint for the API;
* **Report name:** The unique identifier for the report generated by the API;
* **Version number:** The version of the API being called;
* **API Key:** The unique authentication code granted to the users via the ELEXON Portal, giving them rights and permissions to use the API;
* **Search Parameters:** Parameters available to filter the reports, such as Settlement Date and Settlement Period; and
* **Response format:** The file format by which the API will return data, either CSV or XML (with XML being the default).

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| Details of API components |
| **For the API, you will use the following:**   * HOST: https://api.bmreports.com * PORT: 443. (Do not need to specify, as this is the default port for HTTPS) * REPORT NAME: Already included in the API flow details * VERSION NUMBER: v1 or V1 (case insensitive) * API Key: Your API Key from ELEXON Portal   **Service Desk Support:** **bscservicedesk@cgi.com** |

# BMRS API Details

## Transparency Data and REMIT

### B1720 –Amount of Balancing Reserves Under Contract

API service details for the flow B1720 is as follows

|  |  |
| --- | --- |
| **Service Name** | AmountOfBalancingReservesUnderContractService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1720/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | | | | |
| **Field Name** | **Field Type** | **Remarks** | | **Mandatory** | | **Format** | | **Sample data** |
| APIKey | String |  | | Yes | | NA | | AP8DA23 |
| Settlement Date | String |  | | Yes | | YYYY-MM-DD | | 2014-12-31 |
| Period | String |  | | Yes | | \*/1-50 | | 1 |
| Service Type | String |  | | No | | NA | | csv/xml |
| API Web service – Response | | | | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | | **Format** | | **Sample data** | |
| Control Area | String |  | No | | NA | | London | |
| Time Series ID | String |  | No | | NA | | NGET-EMFIP-ATL-0002 | |
| Business Type | String |  | No | | NA | | Frequency Containment Reserve | |
| Market Agreement Type | String |  | No | | NA | | Monthly | |
| Power System Resource Type | String |  | No | | NA | | Generation | |
| Imbalance Quantity Direction | String |  | No | | NA | | SURPLUS | |
| Settlement Date | Date |  | No | | YYYY-MM-DD | | 2014-12-31 | |
| Settlement Period | int |  | No | | \*/1-50 | | 1 | |
| Quantity | String |  | No | |  | | 200 | |
| Document Type | String |  | No | |  | | System total load | |
| Doc Status | String |  | No | |  | | Intermediate | |
| Process Type | String |  | No | |  | | Realised | |
| Resolution | String |  | No | |  | | PT30M | |
| Curve Type | String |  | No | |  | | Point | |
| Active Flag | String |  | No | |  | | Y | |
| Document Id | String |  | No | |  | | NGET-EMFIP-ATL-401 | |
| Document RevNum | String |  | No | |  | | 1 | |

### B1730 – Prices Of Procured Balancing Reserves

**API service details for the flow B1730 is as follows**

| **Service Name** | PricesOfProcuredBalancingReservesService |
| --- | --- |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1730/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | | | |
| **Field Name** | | **Field Type** | | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | | String | |  | Yes | NA | AP8DA23 |
| Settlement Date | | String | |  | Yes | YYYY-MM-DD | 2014-12-31 |
| Period | | String | |  | Yes | \*/1-50 | 1 |
| Service Type | | String | |  | No | NA | csv/xml |
| API Web service – Response | | | | | | | |
| **Field Name** | **Field Type** | | **Remarks** | | **Mandatory** | **Format** | **Sample data** |
| Control Area | String | |  | | No | NA | London |
| Time Series ID | String | |  | | No | NA | NGET-EMFIP-ATL-0002 |
| Business Type | String | |  | | No | NA | Frequency Containment Reserve |
| Market Agreement Type | String | |  | | No | NA | Monthly |
| Power System Resource Type | String | |  | | No | NA | Generation |
| Flow Direction | String | |  | | No | NA | Stable |
| Settlement Date | Date | |  | | No | YYYY-MM-DD | 2014-12-31 |
| Settlement Period | int | |  | | No | \*/1-50 | 1 |
| Procurement Price Amount | String | |  | | No |  | 661237.297 |
| Price Category | String | |  | | No | NA | Excess Balance |
| Document Type | String | |  | | No |  | System total load |
| Doc Status | String | |  | | No |  | Intermediate |
| Process Type | String | |  | | No |  | Realised |
| Resolution | String | |  | | No |  | PT30M |
| Curve Type | String | |  | | No |  | Point |
| Active Flag | String | |  | | No |  | Y |
| Document Id | String | |  | | No |  | NGET-EMFIP-ATL-401 |
| Unit Of Currency | String | |  | | No |  | GBP |
| Document RevNum | String | |  | | No |  | 1 |

### B1740 – Accepted Aggregated Offers

**API service details for the flow B1740 is as follows**

|  |  |
| --- | --- |
| **Service Name** | AcceptedAggregatedOffersService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1740/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes |  | AP8DA23 |
| Settlement Date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| Period | String |  | Yes | \*/1-50 | 1 |
| Service Type | String |  | No |  | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Control Area | String |  | No | NA | London |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Business Type | String |  | No | NA | Frequency Containment Reserve |
| Power System Resource Type | String |  | No | NA | Load |
| Flow Direction | String |  | No | NA | Up |
| Settlement Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| Settlement Period | int |  | No | \*/1-50 | 1 |
| Quantity | String |  | No |  | 50 |
| Secondary Quantity (MAW) | String |  | No |  | 50 |
| Document Type | String |  | No |  | System total load |
| Doc Status | String |  | No |  | Intermediate |
| Process Type | String |  | No |  | Realised |
| Resolution | String |  | No |  | PT30M |
| Curve Type | String |  | No |  | Point |
| Active Flag | String |  | No |  | Y |
| Document Id | String |  | No |  | NGET-EMFIP-ATL-401 |
| Document RevNum | String |  | No |  | 1 |

### B1750 – Activated Balancing Energy

**API service details for the flow B1750 is as follows**

|  |  |
| --- | --- |
| **Service Name** | ActivatedBalancingEnergyService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1750/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Settlement Date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| Period | String |  | Yes | \*/1-50 | 1 |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Control Area | String |  | No | NA | London |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Business Type | String |  | No | NA | Frequency Containment Reserve |
| Power System Resource Type | String |  | No | NA | Load |
| Flow Direction | String |  | No | NA | Stable |
| Settlement Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| Settlement Period | int |  | No | \*/1-50 | 1 |
| Activation Quantity | String |  | No |  | 50 |
| Document Type | String |  | No | NA | System total load |
| Doc Status | String |  | No | NA | Intermediate |
| Process Type | String |  | No | NA | Realised |
| Resolution | String |  | No | NA | PT30M |
| Curve Type | String |  | No | NA | Point |
| Active Flag | String |  | No | NA | Y |
| Document Id | String |  | No | NA | NGET-EMFIP-ATL-401 |
| Document RevNum | String |  | No | NA | 1 |

### B1760 – Prices Of Activated Balancing Energy

**API service details for the flow B1760 is as follows**

|  |  |
| --- | --- |
| **Service Name** | PricesOfActivatedBalancingEnergyService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1760/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | | | | | |
| **Field Name** | **Field Type** | **Remarks** | | | **Mandatory** | | **Format** | **Sample data** | |
| APIKey | String |  | | | Yes | | NA | AP8DA23 | |
| Settlement Date | String |  | | | Yes | | YYYY-MM-DD | 2014-12-31 | |
| Period | String |  | | | Yes | | \*/1-50 | 1 | |
| Service Type | String |  | | | No | | NA | csv/xml | |
| API Web service – Response | | | | | | | | | |
| **Field Name** | **Field Type** | | **Remarks** | | **Mandatory** | | **Format** | **Sample data** | |
| Control Area | String | |  | | No | | NA | London | |
| Time Series ID | String | |  | | No | | NA | NGET-EMFIP-ATL-0002 | |
| Business Type | String | |  | | No | | NA | Frequency Containment Reserve | |
| Power System Resource Type | String | |  | | No | | NA | Load | |
| Flow Direction | String | |  | | No | | NA | Stable | |
| Settlement Date | Date | |  | | No | | YYYY-MM-DD | 2014-12-31 | |
| Settlement Period | int | |  | | No | | \*/1-50 | 1 | |
| Activation Price Amount | String | |  | | No | |  | 661237.297 | |
| Price Category | String | |  | | No | | NA | Excess Balance | |
| Document Type | String | |  | No | | NA | | | System total load |
| Doc Status | String | |  | No | | NA | | | Intermediate |
| Process Type | String | |  | No | | NA | | | Realised |
| Resolution | String | |  | No | | NA | | | PT30M |
| Curve Type | String | |  | No | | NA | | | Point |
| Active Flag | String | |  | No | | NA | | | Y |
| Document Id | String | |  | No | | NA | | | NGET-EMFIP-ATL-401 |
| Document RevNum | String | |  | No | | NA | | | 1 |

### B1770 – Imbalance Prices

**API service details for the flow B1770 is as follows**

|  |  |
| --- | --- |
| **Service Name** | ImbalancePricesService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1770/<VersionNo>?APIKey=< APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Settlement Date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| Period | String |  | Yes | \*/1-50 | 1 |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Control Area | String |  | No | NA | London |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Business Type | String |  | No | NA | Frequency Containment Reserve |
| Settlement Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| Settlement Period | Int |  | No | \*/1-50 | 1 |
| Imbalance Price Amount | String |  | No |  | 661237.297 |
| Price Category | String |  | No | NA | Excess Balance |
| Document Type | String |  | No | NA | System total load |
| Doc Status | String |  | No | NA | Intermediate |
| Process Type | String |  | No | NA | Realised |
| Resolution | String |  | No | NA | PT30M |
| Curve Type | String |  | No | NA | Point |
| Active Flag | String |  | No | NA | Y |
| Document Id | String |  | No | NA | NGET-EMFIP-ATL-401 |
| Document RevNum | String |  | No | NA | 1 |

### B1780 – Aggregated Imbalance Volumes

**API service details for the flow B1780 is as follows**

|  |  |
| --- | --- |
| **Service Name** | AggregatedImbalanceVolumesService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1780/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Settlement Date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| Period | String |  | Yes | \*/1-50 | 1 |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Control Area | String |  | No | NA | London |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Business Type | String |  | No | NA | Balance Energy Deviation |
| Imbalance Quantity Direction | String |  | No | NA | SURPLUS |
| Settlement Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| Settlement Period | int |  | No | \*/1-50 | 1 |
| Imbalance Quantity | String |  | No |  | 661237.297 |
| Document Type | String |  | No | NA | System total load |
| Doc Status | String |  | No | NA | Intermediate |
| Process Type | String |  | No | NA | Realised |
| Resolution | String |  | No | NA | PT30M |
| Curve Type | String |  | No | NA | Point |
| Active Flag | String |  | No | NA | Y |
| Document Id | String |  | No | NA | NGET-EMFIP-ATL-401 |
| Document RevNum | String |  | No | NA | 1 |

### B1790 – Financial Expenses and Income For Balancing

**API service details for the flow B1790 is as follows**

|  |  |
| --- | --- |
| **Service Name** | financialExpensesAndIncomeForBalService |
| **Method** | GET |
| **Input URL** | http://<host>:<port>/BMRS/B1790/<VersionNo>?APIKey=< APIKey>&Year=<Year>&Month=<Month>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Comments** | 1. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Month (Descending) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | | | **Format** | | | **Sample data** |
| APIKey | String |  | Yes | | | NA | | | AP8DA23 |
| Year | String |  | Yes | | | YYYY | | | 2014 |
| Month | String |  | Yes | | | MMM | | | MAR |
| ServiceType | String |  | No | | | NA | | | csv/xml/CSV/XML |
| API Web service – Response | | | | | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | | **Format** | | | **Sample data** | |
| Control Area | String |  | No | | NA | | | London | |
| Time Series ID | String |  | No | | NA | | | NGET-EMFIP-ATL-0002 | |
| Business Type | String |  | No | | NA | | | Financial situation | |
| Year | int |  | No | | YYYY | | | 2014 | |
| Month | String |  | No | | MMM | | | MAR | |
| Financial Price Amount | String |  | No | |  | | | 661237.297 | |
| Price Direction | String |  | No | | NA | | | Expenditure | |
| Document Type | String |  | | No | NA | | System total load | | |
| Doc Status | String |  | | No | NA | | Intermediate | | |
| Process Type | String |  | | No | NA | | Realised | | |
| Resolution | String |  | | No | NA | | PT30M | | |
| Curve Type | String |  | | No | NA | | Point | | |
| Active Flag | String |  | | No | NA | | Y | | |
| Document Id | String |  | | No | NA | | NGET-EMFIP-ATL-401 | | |
| Unit Of Currency | String |  | | No | NA | | GBP | | |
| Document RevNum | String |  | | No | NA | | 1 | | |

### B1810 – CrossBorder Balancing Volumes of Exchanged Bids and Offers

**API service details for the flow B1810 is as follows**

|  |  |
| --- | --- |
| **Service Name** | CrossBorderBalancingVolumesOfExchangedBidsandOffersService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1810/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Settlement Date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| Period | String |  | Yes | \*/1-50 | 1 |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Control Area | String |  | No | NA | London |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Business Type | String |  | No | NA | Frequency Containment Reserve |
| Acquiring Domain | String |  | No | NA | A01=EIC Code |
| Connecting Domain | String |  | No | NA | A01=EIC Code |
| Flow Direction | String |  | No | NA | Stable |
| Settlement Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| Settlement Period | int |  | No | \*/1-50 | 1 |
| Quantity | String |  | No |  | 121212.5 |
| Document Type | String |  | No | NA | System total load |
| Doc Status | String |  | No | NA | Intermediate |
| Process Type | String |  | No | NA | Realised |
| Resolution | String |  | No | NA | PT30M |
| Curve Type | String |  | No | NA | Point |
| Active Flag | String |  | No | NA | Y |
| Document Id | String |  | No | NA | NGET-EMFIP-ATL-401 |
| Document RevNum | String |  | No | NA | 1 |

### B1820 – CrossBorder Balancing Prices

**API service details for the flow B01820 is as follows**

|  |  |
| --- | --- |
| **Service Name** | CrossBorderBalancingPricesService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1820/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | | | | |
| **Field Name** | **Field Type** | | **Remarks** | | **Mandatory** | | **Format** | **Sample data** |
| APIKey | String | |  | | Yes | | NA | AP8DA23 |
| Settlement Date | String | |  | | Yes | | YYYY-MM-DD | 2014-12-31 |
| Period | String | |  | | Yes | | \*/1-50 | 1 |
| Service Type | String | |  | | No | | NA | csv/xml |
| API Web service – Response | | | | | | | | |
| **Field Name** | | **Field Type** | | **Remarks** | | **Mandatory** | **Format** | **Sample data** |
| Control Area | | String | |  | | No | NA | London |
| Time Series ID | | String | |  | | No | NA | NGET-EMFIP-ATL-0002 |
| Business Type | | String | |  | | No | NA | Frequency Containment Reserve |
| Acquiring Domain | | String | |  | | No | NA | A01=EIC Code |
| Connecting Domain | | String | |  | | No | NA | A01=EIC Code |
| Flow Direction | | String | |  | | No | NA | Stable |
| Settlement Date | | Date | |  | | No | YYYY-MM-DD | 2014-12-31 |
| Settlement Period | | int | |  | | No | \*/1-50 | 1 |
| Min Price Amount | | String | |  | | No |  | 1000 |
| Max Price Amount | | String | |  | | No |  | 999999 |
| Document Type | | String | |  | | No | NA | System total load |
| Doc Status | | String | |  | | No | NA | Intermediate |
| Process Type | | String | |  | | No | NA | Realised |
| Resolution | | String | |  | | No | NA | PT30M |
| Curve Type | | String | |  | | No | NA | Point |
| Active Flag | | String | |  | | No | NA | Y |
| Document Id | | String | |  | | No | NA | NGET-EMFIP-ATL-401 |
| Document RevNum | | String | |  | | No | NA | 1 |

### B1830 – Crossborder Balancing Energy Activated

**API service details for the flow B01830 is as follows**

|  |  |
| --- | --- |
| **Service Name** | CrossBorderBalancingEnergyActivatedService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1830/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | | |
| **Field Name** | **Field Type** | | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String | |  | Yes | NA | AP8DA23 |
| Settlement Date | String | |  | Yes | YYYY-MM-DD | 2014-12-31 |
| Period | String | |  | Yes | \*/1-50 | 1 |
| Service Type | String | |  | No | NA | csv/xml |
| API Web service – Response | | | | | | |
| **Field Name** | | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Control Area | | String |  | No | NA | London |
| Time Series ID | | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Business Type | | String |  | No | NA | Frequency Containment Reserve |
| Acquiring Domain | | String |  | No | NA | A01=EIC Code |
| Connecting Domain | | String |  | No | NA | A01=EIC Code |
| Flow Direction | | String |  | No | NA | Stable |
| Settlement Date | | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| Settlement Period | | int |  | No | \*/1-50 | 1 |
| Secondary Quantity | | String |  | No |  | 1012112 |
| Document Type | | String |  | No | NA | System total load |
| Doc Status | | String |  | No | NA | Intermediate |
| Process Type | | String |  | No | NA | Realised |
| Resolution | | String |  | No | NA | PT30M |
| Curve Type | | String |  | No | NA | Point |
| Active Flag | | String |  | No | NA | Y |
| Document Id | | String |  | No | NA | NGET-EMFIP-ATL-401 |
| Document RevNum | | String |  | No | NA | 1 |

### B0610 – Actual Total Load per Bidding Zone

**API service details for the flow B0610 is as follows**

|  |  |
| --- | --- |
| **Service Name** | ActualTotalLoadPerBiddingZoneService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B0610/<VersionNo>?APIKey=< APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Settlement Date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| Period | String |  | Yes | \*/1-50 | 1 |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Time Series ID | String |  | No | NA | 101 |
| Settlement Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| Settlement Period | int |  | No | \*/1-50 | 1 |
| Quantity | String |  | No |  | 200 |
| Document Type | String |  | No | NA | System total load |
| Business Type | String |  | No | NA | Consumption |
| Process Type | String |  | No | NA | Realised |
| Object Aggregation | String |  | No | NA | Area |
| Resolution | String |  | No | NA | PT30M |
| Curve Type | String |  | No | NA | Point |
| Unit of Measure | String |  | No | NA | Mega watt |
| Active Flag | String |  | No | NA | Y |
| Document Id | String |  | No | NA | NGET-EMFIP-ATL-401 |
| Document RevNum | String |  | No | NA | 1 |
| Secondary Quantity (MAW) | String |  | No |  | 50 |

### B0620 – Day-Ahead Total Load Forecast per Bidding Zone

**API service details for the flow B0620 is as follows**

|  |  |
| --- | --- |
| **Service Name** | DayAheadTotalLoadForecastPerBiddingZoneService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B0620/<VersionNo>?APIKey=< APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Settlement Date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| Period | String |  | Yes | \*/1-50 | 1 |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Settlement Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| Settlement Period | int |  | No | \*/1-50 | 1 |
| Quantity | String |  | No |  | 200 |
| Document Type | String |  | No | NA | System total load |
| Business Type | String |  | No | NA | Consumption |
| Process Type | String |  | No | NA | Realised |
| Object Aggregation | String |  | No | NA | Area |
| Resolution | String |  | No | NA | PT30M |
| Curve Type | String |  | No | NA | Point |
| Unit of Measure | String |  | No | NA | Mega watt |
| Active Flag | String |  | No | NA | Y |
| Document Id | String |  | No | NA | NGET-EMFIP-ATL-401 |
| Document RevNum | String |  | No | NA | 1 |
| Secondary Quantity (MAW) | String |  | No |  | 50 |

### B0630 – Week-Ahead Total Load Forecast per Bidding Zone

**API service details for the flow B0630 is as follows**

|  |  |
| --- | --- |
| **Service Name** | WeekAheadTotalLoadForecastPerBiddingZoneService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B0630/<VersionNo>? APIKey=< APIKey>&Year=<Year>&Week=<Week>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending), Date (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | | |
| **Field Name** | **Field Type** | | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String | |  | Yes | NA | AP8DA23 |
| Year | String | |  | Yes | YYYY | 2014 |
| Week | String | |  | Yes | ww(01-52) | 22 |
| Service Type | String | |  | No | NA | csv/xml |
| API Web service – Response | | | | | | |
| **Field Name** | **Field Type** | **Remarks** | | **Mandatory** | **Format** | **Sample data** |
| Business Type | String |  | | No | NA | Consumption |
| Time Series ID | String |  | | No | NA | NGET-EMFIP-ATL-0002 |
| Date | Date |  | | No | YYYY-MM-DD | 07/05/2014 |
| Quantity (MAW) | String |  | | No |  | 200 |
| Week | int |  | | No | NA | 13 |
| Secondary Quantity (MAW) | String |  | | No |  | 50 |
| Document Type | String |  | | No | NA | System total load |
| Year | int |  | | No | NA | 2014 |
| Process Type | String |  | | No | NA | Realised |
| Object Aggregation | String |  | | No | NA | Area |
| Resolution | String |  | | No | NA | PT30M |
| Curve Type | String |  | | No | NA | Point |
| Unit of Measure | String |  | | No | NA | Mega watt |
| Active Flag | String |  | | No | NA | Y |
| Document RevNum | String |  | | No | NA | 2 |
| Document Id | String |  | | No | NA | NGET-EMFIP-ATL-401 |

### B0640 – Month-Ahead Total Load Forecast Per Bidding Zone

**API service details for the flow B0640 is as follows**

|  |  |
| --- | --- |
| **Service Name** | monthAheadTotLoadForecastPerBiddingZoneService |
| **Method** | GET |
| **Input URL** | http://<host>:<port>/BMRS/B0640/<VersionNo>? APIKey=< APIKey>&Year=<Year>&Month=<Month>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Comments** | 1. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Week Commencing (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | | | | | | | | |
| **Logical Field Name** | | **Field Type** | | **Remarks** | | | **Mandatory** | | **Format** | **Sample data** | | |
| APIKey | | String | |  | | | Yes | | NA | AP8DA23 | | |
| Year | | String | |  | | | Yes | | YYYY | 2014 | | |
| Month | | String | |  | | | Yes | | MMM | MAR | | |
| Service Type | | String | |  | | | No | | NA | csv/xml/CSV/XML | | |
| API Web service – Response | | | | | | | | | | | | |
| **Logical Field Name** | **Field Type** | | **Remarks** | | **Mandatory** | | | **Format** | | | **Sample data** | |
| Business Type | String | |  | | No | | | NA | | | Consumption | |
| Time Series ID | String | |  | | No | | | NA | | | NGET-EMFIP-ATL-0002 | |
| Quantity | String | |  | | No | | |  | | | 200 | |
| Secondary Quantity (MAW) | String | |  | | No | | |  | | | 50 | |
| Year | int | |  | | No | | | YYYY | | | 2014 | |
| Month | String | |  | | No | | | MMM | | | MAR | |
| Week Commencing (YYYY-MM-DD) | Date | |  | | No | | | YYYY-MM-DD | | | 2014-01-25 | |
| Document Type | String | |  | | | No | | NA | | | | System total load |
| Document RevNum | String | |  | | | No | | NA | | | | 2 |
| Process Type | String | |  | | | No | | NA | | | | Realised |
| Object Aggregation | String | |  | | | No | | NA | | | | Area |
| Resolution | String | |  | | | No | | NA | | | | PT30M |
| Curve Type | String | |  | | | No | | NA | | | | Point |
| Unit of Measure | String | |  | | | No | | NA | | | | Mega watt |
| Active Flag | String | |  | | | No | | NA | | | | Y |
| Document Id | String | |  | | | No | | NA | | | | NGET-EMFIP-ATL-401 |

|  |  |
| --- | --- |
| **Service Name** | MonthAheadTotalLoadForecastPerBiddingZoneService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B0640/<VersionNo>? APIKey=< APIKey>&Year=<Year>&Month=<Month>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending), Week Commencing (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | | | | | | | | | |
| **Field Name** | | **Field Type** | | **Remarks** | | | **Mandatory** | | | **Format** | **Sample data** | | |
| APIKey | | String | |  | | | Yes | | | NA | AP8DA23 | | |
| Year | | String | |  | | | Yes | | | YYYY | 2014 | | |
| Month | | String | |  | | | Yes | | | MM(01-12) | 4 | | |
| Service Type | | String | |  | | | No | | | NA | csv/xml | | |
| API Web service – Response | | | | | | | | | | | | | |
| **Field Name** | **Field Type** | | **Remarks** | | **Mandatory** | | | **Format** | | | | **Sample data** | |
| Business Type | String | |  | | No | | | NA | | | | Consumption | |
| Time Series ID | String | |  | | No | | | NA | | | | NGET-EMFIP-ATL-0002 | |
| Quantity | String | |  | | No | | |  | | | | 200 | |
| Secondary Quantity (MAW) | String | |  | | No | | |  | | | | 50 | |
| Year | int | |  | | No | | | YYYY | | | | 2014 | |
| Month | String | |  | | No | | | MM(01-12) | | | | 4 | |
| Week Commencing (YYYY-MM-DD) | Date | |  | | No | | | YYYY-MM-DD | | | | 2014-01-25 | |
| Document Type | String | |  | | | No | | | NA | | | | System total load |
| Document RevNum | String | |  | | | No | | | NA | | | | 2 |
| Process Type | String | |  | | | No | | | NA | | | | Realised |
| Object Aggregation | String | |  | | | No | | | NA | | | | Area |
| Resolution | String | |  | | | No | | | NA | | | | PT30M |
| Curve Type | String | |  | | | No | | | NA | | | | Point |
| Unit of Measure | String | |  | | | No | | | NA | | | | Mega watt |
| Active Flag | String | |  | | | No | | | NA | | | | Y |
| Document Id | String | |  | | | No | | | NA | | | | NGET-EMFIP-ATL-401 |

### B0650 – Year Ahead Total Load Forecast per Bidding Zone

**API service details for the flow B0650 is as follows**

|  |  |
| --- | --- |
| **Service Name** | YearAheadTotalLoadForecastPerBiddingZoneService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B0650/<VersionNo>? APIKey =< APIKey >&Year=<Year>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Week (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Year | String |  | Yes | YYYY | 2013 |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Business Type | String |  | No | NA | Consumption |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Quantity | String |  | No | NA | 200 |
| Secondary Quantity (MAW) | String |  | No |  | 50 |
| Year | int |  | No | YYYY | 2013 |
| Week | int |  | No |  | 52 |
| Document Type | String |  | No | NA | System total load |
| Month Name | String |  | No | NA |  |
| Process Type | String |  | No | NA | Realised |
| Object Aggregation | String |  | No | NA | Area |
| Resolution | String |  | No | NA | PT30M |
| Curve Type | String |  | No | NA | Point |
| Unit of Measure | String |  | No | NA | Mega watt |
| Active Flag | String |  | No | NA | Y |
| Document Id | String |  | No | NA | NGET-EMFIP-ATL-401 |
| Document RevNum | String |  | No | NA | 1 |

### B0810 – Year Ahead Forecast Margin

**API service details for the flow B0810 is as follows**

|  |  |
| --- | --- |
| **Service Name** | YearAheadForecastMarginService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B0810/<VersionNo>? APIKey =< APIKey >&Year=<Year>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Year | String |  | Yes | YYYY | 2014 |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Business Type | String |  | No | NA | Consumption |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Quantity | String |  | No |  | 200 |
| Secondary Quantity (MAW) | String |  | No |  | 50 |
| Year | int |  | No | YYYY | 2014 |
| Document Type | String |  | No | NA | System total load |
| Process Type | String |  | No | NA | Realised |
| Resolution | String |  | No | NA | PT30M |
| Curve Type | String |  | No | NA | Point |
| Unit of Measure | String |  | No | NA | Mega watt |
| Active Flag | String |  | No | NA | Y |
| Document Id | String |  | No | NA | NGET-EMFIP-ATL-401 |
| Document RevNum | String |  | No | NA | 1 |

### B1410 – Installed Generation Capacity Aggregated

**API service details for the flow B1410 is as follows**

|  |  |
| --- | --- |
| **Service Name** | InstalledGenerationCapacityAggregatedService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1410/<VersionNo>? APIKey =< APIKey >&Year=<Year>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Year | String |  | Yes | YYYY | 2014 |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Quantity | double |  | No |  | 200 |
| Year | int |  | No | YYYY | 2014 |
| Power System Resource Type | String |  | No | NA | Generation |
| Document Type | String |  | No | NA | System total load |
| Process Type | String |  | No | NA | Realised |
| Resolution | String |  | No | NA | PT30M |
| BusinessType | String |  | No | NA | Consumption |
| Active Flag | String |  | No | NA | Y |
| Document Id | String |  | No | NA | NGET-EMFIP-ATL-401 |
| Document RevNum | String |  | No | NA | 1 |

### B1420 – Installed Generation Capacity per Unit

**API service details for the flow B1420 is as follows**

|  |  |
| --- | --- |
| **Service Name** | InstalledGenerationCapacityPerUnitService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1420/<VersionNo>? APIKey =< APIKey >&Year=<Year>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Year | String |  | Yes | YYYY | 2014 |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Power System Resource Type | String |  | No | NA | Generation |
| Year | int |  | No | YYYY | 2014 |
| BM UNIT ID | String |  | No | NA | 100 |
| Registered Resource EIC Code | String |  | No | NA | 10T-AL-GN-000112 |
| Voltage limit | String |  | No |  | 100 |
| NGC BM UNIT ID | String |  | No | NA | 200 |
| Registered Resource Name | String |  | No | NA | BAGE-2 |
| Document Type | String |  | No | NA | System total load |
| Business Type | String |  | No | NA | Consumption |
| Process Type | String |  | No | NA | Realised |
| Active Flag | String |  | No | NA | Y |
| Document Id | String |  | No | NA | NGET-EMFIP-ATL-401 |
| Nominal | String |  | No | NA | 153.2 |
| Implementation Date | String |  | No | NA | 2014-12-20 |
| Decommissioning Date | String |  | No | NA | 2020-01-01 |

### B1430 – Day-Ahead Aggregated Generation

**API service details for the flow B1430 is as follows**

|  |  |
| --- | --- |
| **Service Name** | DayAheadAggregatedGenerationService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1430/<VersionNo>? APIKey=< APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Settlement Date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| Period | String |  | Yes | \*/1-50 | 1 |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Quantity | String |  | No |  | 200 |
| Settlement Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| Settlement Period | int |  | No | \*/1-50 | 1 |
| Document Type | String |  | No | NA | System total load |
| Business Type | String |  | No | NA | Consumption |
| Process Type | String |  | No | NA | Realised |
| Resolution | String |  | No | NA | PT30M |
| Curve Type | String |  | No | NA | Point |
| Active Flag | String |  | No | NA | Y |
| Document Id | String |  | No | NA | NGET-EMFIP-ATL-401 |
| Document RevNum | String |  | No | NA | 1 |

### B1440 –Generation forecasts for Wind and Solar

**API service details for the flow B1440 is as follows**

|  |  |
| --- | --- |
| **Service Name** | GenerationforecastsForWindAndSolarService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1440/<VersionNo>? APIKey =< APIKey >&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Process Type (Ascending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Settlement Date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| Period | String |  | Yes | \*/1-50 | 1 |
| Process Type | String |  | No | NA | Day Ahead |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Business Type | String |  | No | NA | Solar Generation |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Quantity | double |  | No |  | 200 |
| Settlement Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| Settlement Period | int |  | No |  | 1 |
| PSR Type | String |  | No | NA | Generation |
| Document Type | String |  | No | NA | System total load |
| Process Type | String |  | No | NA | Realised |
| Resolution | String |  | No | NA | PT30M |
| Curve Type | String |  | No | NA | Point |
| Active Flag | String |  | No | NA | Y |
| Document Id | String |  | No | NA | NGET-EMFIP-ATL-401 |
| Document RevNum | String |  | No | NA | 1 |

### B1610 – Actual Generation Output per Generation Unit

**API service details for the flow B1610 is as follows**

|  |  |
| --- | --- |
| **Service Name** | ActualGenerationOutputPerGenerationUnitService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1610/<VersionNo>? APIKey =< APIKey >&SettlementDate=<SettlementDate>&Period=<Period>&NGCBMUnitID=<NGCBMUnitID>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)  3. This API was updated on 21 February 2019 to provide an enhanced hierarchical structure in the XML response that improves size, performance and readability. The updated API is called by specifying ‘V2’ as the version parameter in the input URL.  4. Version 1 of this API will no longer be available from 5 July 2019 |

API Web service – Request and Response format details:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Settlement Date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| Period | String |  | Yes | \*/1-50 | 1 |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Quantity | String |  | No | NA | 200 |
| Settlement Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| Settlement Period | int |  | No | \*/1-50 | 1 |
| PSR Type | String |  | No | NA | Generation |
| Registered Resource EIC Code | String |  | No | NA | EIC2\_A0001 |
| Market Generation Unit EIC Code | String |  | No | NA | NG\_Wales-Generation-121 |
| Market Generation BM Unit | String |  | No | NA | NA |
| Market Generation NGC BM Unit | String |  | No | NA | NA |
| BM Unit ID | String |  | No | NA | NA |
| NGC BM Unit ID | String |  | No | NA | NA |
| Document Type | String |  | No | NA | System total load |
| Business Type | String |  | No | NA | Consumption |
| Process Type | String |  | No | NA | Realised |
| Resolution | String |  | No | NA | PT30M |
| Curve Type | String |  | No | NA | Point |
| Active Flag | String |  | No | NA | Y |
| Document Id | String |  | No | NA | NGET-EMFIP-ATL-401 |
| Document RevNum | String |  | No | NA | 1 |

### B1620 – Actual Aggregated Generation perType

**API service details for the flow B1620 is as follows**

|  |  |
| --- | --- |
| **Service Name** | ActualAggregatedGenerationPerTypeService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1620/<VersionNo>? APIKey =< APIKey >&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Settlement Date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| Period | String |  | Yes | \*/1-50 | 1 |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Business Type | String |  | No | NA | Solar Generation |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Quantity | String |  | No |  | 200 |
| Settlement Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| Settlement Period | int |  | No | \*/1-50 | 1 |
| PSR Type | String |  | No | NA | Generation |
| Document Type | String |  | No | NA | System total load |
| Process Type | String |  | No | NA | Realised |
| Resolution | String |  | No | NA | PT30M |
| Curve Type | String |  | No | NA | Point |
| Active Flag | String |  | No | NA | Y |
| Document Id | String |  | No | NA | NGET-EMFIP-ATL-401 |
| Document RevNum | String |  | No | NA | 1 |

### B1630 – Actual Or Estimated Wind and Solar Power Generation

**API service details for the flow B1630 is as follows**

|  |  |
| --- | --- |
| **Service Name** | ActualOrEstimatedWindAndSolarPowerGenerationService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1630/<VersionNo>? APIKey =< APIKey >&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Settlement Date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| Period | String |  | Yes | \*/1-50 | 1 |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Business Type | String |  | No | NA | Solar Generation |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Quantity | double |  | No |  | 200 |
| Settlement Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| Settlement Period | int |  | No | \*/1-50 | 1 |
| PSR Type | String |  | No | NA | Generation |
| Document Type | String |  | No | NA | System total load |
| Process Type | String |  | No | NA | Realised |
| Resolution | String |  | No | NA | PT30M |
| Curve Type | String |  | No | NA | Point |
| Active Flag | String |  | No | NA | Y |
| Document Id | String |  | No | NA | NGET-EMFIP-ATL-401 |
| Document RevNum | String |  | No | NA | 1 |

### B0910 – Expansion and Dismantling Projects

**API service details for the flow B0910 is as follows**

|  |  |
| --- | --- |
| **Service Name** | ExpansionandDismantlingProjectsService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B0910/<VersionNo>? APIKey =< APIKey >&Year=<Year>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | | |
| **Field Name** | **Field Type** | | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String | |  | Yes | NA | AP8DA23 |
| Year | Int | | - | Yes | YYYY | 2014 |
| Service Type | String | |  | No | NA | csv/xml |
| API Web service – Response | | | | | | |
| **Field Name** | | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Business Type | | String |  | No | NA | Solar Generation |
| Time Series ID | | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Quantity | | String |  | No |  | 200 |
| Asset Type | | String |  | No | NA | Line |
| Reason Code | | String |  | No | NA | Complementary Information |
| Reason Description | | String |  | No | NA | Infrastructure End of Life |
| Location | | String |  | No | NA | London |
| End Date | | Date |  | No | NA | 2014-12-31 |
| BM UNIT Id | | String |  | No | NA | NA |
| NGC BM Unit id | | String |  | No | NA | NA |
| MRID(ASSET\_EIC\_CDE) | | String |  | No | NA | mRID.12345678 |
| Doc Status | | String |  | No | NA | Intermediate |
| Document Type | | String |  | No | NA | Interconnection network expansion |
| Process Type | | String |  | No | NA | Network information |
| Unit of Measure | | String |  | No | NA | Meega Watt |
| resolution | | String |  | No | NA | P1Y |
| Curve type | | String |  | No | NA | Point |
| Active Flag | | String |  | No | NA | Y |
| Document Id | | String |  | No | NA | DEVUT-NGET-EMFIP-RST |
| Document Rev Num | | String |  | No | NA | 12 |
| Year | | int |  | No | NA | 2014 |

### B1320 – Congestion Management Measures Countertrading

**API service details for the flow B1320 is as follows**

|  |  |
| --- | --- |
| **Service Name** | CongestionManagementMeasuresCountertradingService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1320/<VersionNo>? APIKey=< APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | | **Format** | | | **Sample data** |
| APIKey | String |  | Yes | | NA | | | AP8DA23 |
| Settlement Date | String |  | Yes | | YYYY-MM-DD | | | 2014-12-31 |
| Period | String |  | Yes | | \*/1-50 | | | 1 |
| Service Type | String |  | No | | NA | | | csv/xml |
| API Web service – Response | | | | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | | **Format** | | | **Sample data** |
| Time Series ID | String |  | No | | NA | | | NGET-EMFIP-ATL-0002 |
| Quantity(MAW) | String |  | No | |  | | | 200 |
| Settlement Date | Date |  | No | | YYYY-MM-DD | | | 2014-12-31 |
| Settlement Period | int |  | No | | \*/1-50 | | | 1 |
| Reason Code | String |  | No | | NA | | | Complementary Information |
| Reason Description | String |  | No | | NA | | | Infrastructure End of Life |
| Flow Direction | String |  | No | | NA | | | up |
| Document Type | String |  | | No | | NA | Counter trade notice | |
| Process Type | String |  | | No | | NA | Realised | |
| Doc Status | String |  | | No | | NA | Intermediate | |
| resolution | String |  | | No | | NA | PT30M | |
| Curve type | String |  | | No | | NA | Sequential fixed size block | |
| Active Flag | String |  | | No | | NA | N | |
| Document Id | String |  | | No | | NA | DEVUT-NGET-EMFIP-RST | |
| Document Rev Num | String |  | | No | | NA | 2 | |

### B1330 – Congestion Management Measures Costs of Congestion Management

**API service details for the flow B1330 is as follows**

|  |  |
| --- | --- |
| **Service Name** | CongestionManagementMeasuresCostsOfCongestionManagementService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1330/<VersionNo>? APIKey=< APIKey>&Year=<Year>&Month=<Month>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Year | String |  | Yes | YYYY | 1905-07-06 |
| Month | String |  | Yes | MM | 11 |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Congestion Price(GBP) | String |  | No |  | 20012 |
| Year | String |  | No | YYYY | 2014 |
| Month | String |  | No | MM | Mar |
| Reason Code | String |  | No | NA | Complementary Information |
| Reason Description | String |  | No | NA | Infrastructure End of Life |
| Document Type | String |  | No | NA | Congestion costs |
| Process Type | String |  | No | NA | Realised |
| Doc Status | String |  | No | NA | Intermediate |
| resolution | String |  | No | NA | P1M |
| business type | String |  | No | NA | Congestion costs |
| Active Flag | String |  | No | NA | N |
| Document Id | String |  | No | NA | DEVUT-NGET-EMFIP-Testingxx |
| Document Rev Num | String |  | No | NA | 8 |

### B0710 – Planned Unavailability of Consumption Units

**API service details for the flow B0710 is as follows**

|  |  |
| --- | --- |
| **Service Name** | PlannedUnavailabilityOfConsumptionUnitsService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B0710/<VersionNo>? StartDate =< StartDate >& EndTime =< EndTime >& StartTime =< StartTime >& APIKey=< APIKey > & EndDate =< EndDate >&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| EndTime | String |  | Yes | mm:hh:ss ZZ | 15:00:00 ZZ |
| StartTime | String |  | Yes | mm:hh:ss ZZ | 14:00:00 ZZ |
| Start date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| End date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Business Type | String |  | No | NA | Solar Generation |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Start Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| End Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| Start Time | Date |  | No | mm:hh:ss ZZ | 14:00:00 ZZ |
| End Time | Date |  | No | mm:hh:ss ZZ | 15:00:00 ZZ |
| Quantity | String |  | No |  | 200 |
| Reason Code | String |  | No | NA | shutdown |
| Reason Description | String |  | No | NA | shut down for Maintenance |
| Document Type | String |  | No | NA | Load unavailability |
| Process Type | String |  | No | NA | Outage information |
| Doc Status | String |  | No | NA |  |
| Active Flag | String |  | No | NA | N |
| Document Id | String |  | No | NA | NGET-PUCU-00001 |
| Document Rev Num | String |  | No | NA | 2 |
| BM UNIT Id | String |  | No | NA | NA |
| AssestEICCode | String |  | No | NA | registered.12345 |
| NGC BM Unit id | String |  | No | NA | NA |

### B0720 – Changes In Actual Availability Of Consumption Units

**API service details for the flow B0720 is as follows**

|  |  |
| --- | --- |
| **Service Name** | ChangesInActualAvailabilityOfConsumptionUnitsService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B0720/<VersionNo>?StartDate=<StartDate>&EndTime=<EndTime>&StartTime=<StartTime>&APIKey=<APIKey>&EndDate=<EndDate>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Start date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| StartTime | String |  | Yes | mm:hh:ss ZZ | 14:00:00 ZZ |
| End date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| EndTime | String |  | Yes | mm:hh:ss ZZ | 15:00:00 ZZ |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Business Type | String |  | No | NA | Solar Generation |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Start Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| End Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| Start Time | Date |  | No | mm:hh:ss ZZ | 14:00:00 ZZ |
| End Time | Date |  | No | mm:hh:ss ZZ | 15:00:00 ZZ |
| Reason Code | String |  | No | NA | shutdown |
| Reason Description | String |  | No | NA | shut down for Maintenance |
| Quantity | String |  | No |  | 200 |
| Document Type | String |  | No | NA | Load unavailability |
| Process Type | String |  | No | NA | Outage information |
| Doc Status | String |  | No | NA | NA |
| Active Flag | String |  | No | NA | N |
| Document Id | String |  | No | NA | NGET-PUCU-00001 |
| Document Rev Num | String |  | No | NA | 2 |
| Assest BM UNIT Id | String |  | No | NA | NA |
| AssestEICCode | String |  | No | NA | registered.12345 |
| NGC BM Unit id | String |  | No | NA | NA |

### B1010 – Planned Unavailability In The Transmission Grid

**API service details for the flow B1010 is as follows**

|  |  |
| --- | --- |
| **Service Name** | PlannedUnavailabilityInTheTransmissionGridService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1010/<VersionNo>?APIKey=<APIKey>&StartDate=<StartDate>&EndTime=<EndTime>&StartTime=<StartTime>&EndDate=<EndDate>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Start date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| End date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| StartTime | String |  | Yes | mm:hh:ss ZZ | 14:00:00 ZZ |
| EndTime | String |  | Yes | mm:hh:ss ZZ | 15:00:00 ZZ |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Business Type | String |  | No | NA | Solar Generation |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Start Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| End Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| Start Time | Date |  | No | mm:hh:ss ZZ | 14:00:00 ZZ |
| End Time | Date |  | No | mm:hh:ss ZZ | 15:00:00 ZZ |
| Reason Code | String |  | No | NA | shutdown |
| Reason Description | String |  | No | NA | shut down for Maintenance |
| Asset EIC Code | String |  | No | NA | EIC\_A001 |
| BM Unit Id | String |  | No | NA | NA |
| NGC BU Unit ID | String |  | No | NA | NA |
| Asset Type | String |  | No | NA | Line |
| Name | String |  | No | NA | NG -Wales\_Line-L121 |
| location | String |  | No | NA | London |
| Quantity | String |  | No |  | 200 |
| Document Type | String |  | No | NA | Transmission unavailability |
| Process Type | String |  | No | NA | Outage information |
| Doc Status | String |  | No | NA | NA |
| Active Flag | String |  | No | NA | N |
| Document Id | String |  | No | NA | NGET-PUCU-00001 |
| Document Rev Num | String |  | No | NA | 1 |

### B1020 – Changes In Actual Availability In The Transmission Grid

**API service details for the flow B1020 is as follows**

|  |  |
| --- | --- |
| **Service Name** | ChangesInActualAvailabilityInTheTransmissionGridService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1020/<VersionNo>?APIKey=<APIKey>&StartDate=<StartDate>&EndDate=<EndDate>&StartTime=<StartTime>&EndTime=<EndTime>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Start date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| End date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| StartTime | String |  | Yes | mm:hh:ss ZZ | 14:00:00 ZZ |
| EndTime | String |  | Yes | mm:hh:ss ZZ | 15:00:00 ZZ |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Business Type | String |  | No | NA | Solar Generation |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Start Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| End Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| Start Time | Date |  | No | mm:hh:ss ZZ | 14:00:00 ZZ |
| End Time | Date |  | No | mm:hh:ss ZZ | 15:00:00 ZZ |
| Reason Code | String |  | No | NA | shutdown |
| Reason Description | String |  | No | NA | shut down for Maintenance |
| Quantity | String |  | No |  | 200 |
| Asset EIC Code | String |  | No | NA | EIC\_A001 |
| BM Unit Id | String |  | No | NA | NA |
| NGC BU Unit ID | String |  | No | NA | NA |
| Asset Type | String |  | No | NA | Line |
| Name | String |  | No | NA | NG -Wales\_Line-L121 |
| location | String |  | No | NA | London |
| Document Type | String |  | No | NA | Transmission unavailability |
| Process Type | String |  | No | NA | Outage information |
| Doc Status | String |  | No | NA | NA |
| Active Flag | String |  | No | NA | N |
| Document Id | String |  | No | NA | NGET-PUCU-00001 |
| Document Rev Num | String |  | No | NA | 1 |

### B1030 – Changes In Actual Availability of OffShore Grid Infrastructure

**API service details for the flow B1030 is as follows**

|  |  |
| --- | --- |
| **Service Name** | ChangesInActualAvailabilityOfOffShoreGridInfrastructureService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1030/<VersionNo>?APIKey=<APIKey>&StartDate=<StartDate>&EndDate=<EndDate>&StartTime=<StartTime>&EndTime=<EndTime>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Start date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| End date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| StartTime | String |  | Yes | mm:hh:ss ZZ | 14:00:00 ZZ |
| EndTime | String |  | Yes | mm:hh:ss ZZ | 15:00:00 ZZ |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Business Type | String |  | No | NA | Solar Generation |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Start Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| End Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| Start Time | Date |  | No | mm:hh:ss ZZ | 14:00:00 ZZ |
| End Time | Date |  | No | mm:hh:ss ZZ | 15:00:00 ZZ |
| Reason Code | String |  | No | NA | shutdown |
| Reason Description | String |  | No | NA | shut down for Maintenance |
| Quantity | String |  | No |  | 200 |
| Active Power | String |  | No |  | 50 |
| Asset EIC Code | String |  | No | NA | EIC\_A001 |
| BM Unit Id | String |  | No | NA | NA |
| NGC BU Unit ID | String |  | No | NA | NA |
| Name | String |  | No | NA | NG -Wales\_Line-L121 |
| location | String |  | No | NA | London |
| Document Type | String |  | No | NA | Generation unavailability |
| Process Type | String |  | No | NA | Outage information |
| Doc Status | String |  | No | NA | NA |
| Active Flag | String |  | No | NA | N |
| Document Id | String |  | No | NA | NGET-PUCU-00001 |
| Document Rev Num | String |  | No | NA | 1 |

### B1510 – Planned Unavailability of Generation Units

**API service details for the flow B1510 is as follows**

|  |  |
| --- | --- |
| **Service Name** | PlannedUnavailabilityOfGenerationUnitsService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1510/<VersionNo>?APIKey=<APIKey>&StartDate=<StartDate>&EndDate=<EndDate>&StartTime=<StartTime>&EndTime=<EndTime>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Start date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| End date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| StartTime | String |  | Yes | mm:hh:ss ZZ | 14:00:00 ZZ |
| EndTime | String |  | Yes | mm:hh:ss ZZ | 15:00:00 ZZ |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Business Type | String |  | No | NA | Solar Generation |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Start Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| End Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| Start Time | Date |  | No | mm:hh:ss ZZ | 14:00:00 ZZ |
| End Time | Date |  | No | mm:hh:ss ZZ | 15:00:00 ZZ |
| Reason Code | String |  | No | NA | shutdown |
| Reason Description | String |  | No | NA | shutdown for Maintenance |
| Prod Registered Resource Active power | String |  | No | NA | 500 |
| BM Unit Id | String |  | No | NA | NA |
| NGC BU Unit ID | String |  | No | NA | NA |
| Quantity | String |  | No |  | 200 |
| Prod Registered Resource EIC CODE | String |  | No | NA | 10T-AL-WS-00015 |
| Prod Registered Resource PSR name | String |  | No | NA | NG-Wales-Gen-G121 |
| Prod Registered Resource type | String |  | No | NA | Generation |
| Prod Registered Resource location | String |  | No | NA | London |
| Document Type | String |  | No | NA | Production unavailability |
| Process Type | String |  | No | NA | Outage information |
| Doc Status | String |  | No | NA | Intermediate |
| Active Flag | String |  | No | NA | N |
| Document Id | String |  | No | NA | NGET-AAPU-00001t1 |
| Document Rev Num | String |  | No | NA | 2 |
| PSR EIC Code | String |  | No | NA | BMUnitEIC |
| PSR NGC BM Unit ID | String |  | No | NA | T\_COTPS-1 |
| PSR BM Uni tID | String |  | No | NA | COTPS-1 |
| PSR Name | String |  | No | NA | BMUnitEIC.name |

### B1520 – Changes In Actual Availability of Generation Units

**API service details for the flow B1520 is as follows**

|  |  |
| --- | --- |
| **Service Name** | ChangesInActualAvailabilityOfGenerationUnitsService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1520/<VersionNo>?APIKey=<APIKey>&StartDate=<StartDate>&EndDate=<EndDate>&StartTime=<StartTime>&EndTime=<EndTime>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Start date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| End date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| StartTime | String |  | Yes | mm:hh:ss ZZ | 14:00:00 ZZ |
| EndTime | String |  | Yes | mm:hh:ss ZZ | 15:00:00 ZZ |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Business Type | String |  | No | NA | Solar Generation |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Start Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| End Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| Start Time | Date |  | No | mm:hh:ss ZZ | 14:00:00 ZZ |
| End Time | Date |  | No | mm:hh:ss ZZ | 15:00:00 ZZ |
| Quantity(MAW) | String |  | No | dddd | 200 |
| Prod Registered Resource EIC Code | String |  | No | NA | 10T-AL-WS-00015 |
| Prod Registered Resource name | String |  | No | NA | NG-Wales-Gen-G121 |
| Prod Registered Resource location | String |  | No | NA | London |
| Reason Code | String |  | No | NA | Complementary Information |
| Reason Description | String |  | No | NA | Infrastructure End of Life |
| Prod Registered Resource Active | String |  | No | NA | 50 |
| Prod Registered Resource type | String |  | No | NA | Generation |
| Prod Registered PSR EIC Code | String |  | No | NA | BMUnitEIC1234 |
| Document Type | String |  | No | NA | Generation unavailability |
| Process Type | String |  | No | NA | Outage information |
| Doc Status | String |  | No | NA | Intermediate |
| Active Flag | String |  | No | NA | N |
| Document Id | String |  | No | NA | NGET-AAGTYU |
| Document Rev Num | String |  | No | NA | 2 |

### B1530 – Planned Unavailability of Production Units

**API service details for the flow B1530 is as follows**

|  |  |
| --- | --- |
| **Service Name** | postPlannedUnavailabilityOfProductionUnitsService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1530/<VersionNo>?APIKey=<APIKey>&StartDate=<StartDate>&EndDate=<EndDate>&StartTime=<StartTime>&EndTime=<EndTime>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | | **Sample data** |
| APIKey | String |  | Yes | NA | | AP8DA23 |
| Start date | String |  | Yes | YYYY-MM-DD | | 2014-12-31 |
| End date | String |  | Yes | YYYY-MM-DD | | 2014-12-31 |
| StartTime | String |  | Yes | mm:hh:ss ZZ | | 14:00:00 ZZ |
| EndTime | String |  | Yes | mm:hh:ss ZZ | | 15:00:00 ZZ |
| Service Type | String |  | No | NA | | csv/xml |
| API Web service – Response | | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** | |
| Business Type | String |  | No | NA | Solar Generation | |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 | |
| Start Date | Date |  | No | YYYY-MM-DD | 2014-12-31 | |
| End Date | Date |  | No | YYYY-MM-DD | 2014-12-31 | |
| Start Time | Date |  | No | mm:hh:ss ZZ | 14:00:00 ZZ | |
| End Time | Date |  | No | mm:hh:ss ZZ | 15:00:00 ZZ | |
| Reason Code | String |  | No | NA | Complementary Information | |
| Reason Description | String |  | No | NA | Infrastructure End of Life | |
| Quantity(MAW) | String |  | No |  | 200 | |
| Prod Registered Resource EIC Code | String |  | No | NA | 10T-AL-WS-00015 | |
| Prod Registered Resource name | String |  | No | NA | NG-Wales-Gen-G121 | |
| Prod Registered Resource location | String |  | No | NA | London | |
| Active power | String |  | No |  | 500 | |
| Document Type | String |  | No | NA | Generation unavailability | |
| Process Type | String |  | No | NA | Outage information | |
| Doc Status | String |  | No | NA | Intermediate | |
| Active Flag | String |  | No | NA | N | |
| Document Id | String |  | No | NA | NGET-AAGTYU | |
| Document Rev Num | String |  | No | NA | 2 | |

### B1540 – Changes In Actual Availability of Production Units

**API service details for the flow B1540 is as follows**

|  |  |
| --- | --- |
| **Service Name** | ChangesInActualAvailabilityOfProductionUnitsService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/B1540/<VersionNo>?APIKey=<APIKey>&StartDate=<StartDate>&EndDate=<EndDate>&StartTime=<StartTime>&EndTime=<EndTime>&ServiceType=<xml/csv> |
| **Output Format** | XML/CSV |
| **Comments** | 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending) |

API Web service – Request and Response format details:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Web service – Request | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| APIKey | String |  | Yes | NA | AP8DA23 |
| Start date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| End date | String |  | Yes | YYYY-MM-DD | 2014-12-31 |
| StartTime | String |  | Yes | mm:hh:ss ZZ | 14:00:00 ZZ |
| EndTime | String |  | Yes | mm:hh:ss ZZ | 15:00:00 ZZ |
| Service Type | String |  | No | NA | csv/xml |
| API Web service – Response | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Business Type | String |  | No | NA | Solar Generation |
| Time Series ID | String |  | No | NA | NGET-EMFIP-ATL-0002 |
| Start Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| End Date | Date |  | No | YYYY-MM-DD | 2014-12-31 |
| Start Time | Date |  | No | mm:hh:ss ZZ | 14:00:00 ZZ |
| End Time | Date |  | No | mm:hh:ss ZZ | 15:00:00 ZZ |
| Reason Code | String |  | No | NA | Complementary Information |
| Reason Description | String |  | No | NA | Infrastructure End of Life |
| Quantity(MAW) | String |  | No |  | 200 |
| Prod Registered Resource EIC Code | String |  | No | NA | 10T-AL-WS-00015 |
| Prod Registered Resource name | String |  | No | NA | NG-Wales-Gen-G121 |
| Prod Registered Resource location | String |  | No | NA | London |
| Active power | String |  | No |  | 500 |
| Document Type | String |  | No | NA | Production unavailability |
| Process Type | String |  | No | NA | Outage information |
| Doc Status | String |  | No | NA | Intermediate |
| Active Flag | String |  | No | NA | N |
| Document Id | String |  | No | NA | NGET-AAPU-00001t1 |
| Document Rev Num | String |  | No | NA | 2 |

### REMIT Flow – Message List Retrieval

**API service details for REMIT Message List Retrieval is as follows**

|  |  |
| --- | --- |
| **Service Name** | MessageListRetrievalService |
| **Method** | GET |
| **Input URL** | 1. **Event Start & End**   https://api.bmreports.com/BMRS/MessageListRetrieval/v1?APIKey=<APIKey>&EventStart=<EventStart>&EventEnd=<EventEnd>&ServiceType=<xml/XML/csv/CSV>   1. **Publication Time**   https://api.bmreports.com/BMRS/MessageListRetrieval/v1?APIKey=<APIKey>&PublicationFrom=<PublicationFrom>&PublicationTo=<PublicationTo>&ServiceType=<xml/XML/csv/CSV>   1. **Publication Time with Advanced Filter**   https://api.bmreports.com/BMRS/MessageListRetrieval/v1?APIKey=<APIKey>&PublicationFrom=<PublicationFrom>&PublicationTo=<PublicationTo>&ServiceType=<xml/XML/csv/CSV>&AffectedUnitID=<AffectedID>&ParticipantId=<ParticipantID>&MessageID=<MessageID>&EventType=<EventType>&FuelType=<FuelType>   1. **Event Start with Active Flag**   https://api.bmreports.com/BMRS/MessageListRetrieval/v1?APIKey=<APIKey>&EventStart=<EventStart>&EventEnd=<EventEnd>&ServiceType=<xml/XML/csv/CSV>&ActiveFlag=<ActiveFlag>   1. **Event Start with Advanced Filter**   https://api.bmreports.com/BMRS/MessageListRetrieval/v1?APIKey=<APIKey>&EventStart=<EventStart>&EventEnd=<EventEnd>&ServiceType=<xml/XML/csv/CSV>&AffectedUnitID=<AffectedID>&ParticipantID=<ParticipantID>&MessageID=<MessageID>&EventType=<EventType>&FuelType=<FuelType>  **Note:** Active Flag is used to retrieve only the latest revisions. Different urls are possible for this service by including optional parameters. |
| **Output Format** | XML |
| **Comments** | 1. All active records are fetched on the basis of mandatory parameters EventStart and EventEnd or PublicationFrom and PublicationTo along with the optional parameters(AffectedUnitID, ParticipantId, MessageID, FuelType, EventType,AssetId) for which AND condition will be applied. 2. ParticipantId is fetched based on complete or Partial value given in request.(Ex: %name%) 3. “Events In Progress” will be fetched based on the following conditions:    * Event Start DateTime is in between “From DateTime” and “To DateTime” OR    * Event End DateTime is in between “From DateTime” and “To DateTime” OR    * Event Start DateTime is Before “From DateTime” AND Event End Date time is After “To DateTime”) |

API Web service – Request and Response format details:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Sample data** |
| ApiKey | String | The key used to identify and authorize the request. | Yes |  |
| EventStart | String | The start date of the event. This a fixed format string, like YYYY-MM-DD | No |  |
| EventEnd | String | The end date of the event. This a fixed format string, like YYYY-MM-DD | No |  |
| PublicationFrom | String | The start date of the publication. This a fixed format string, like YYYY-MM-DD | No |  |
| PublicationTo | String | The end date of the publication. This a fixed format string, like YYYY-MM-DD | No |  |
| ParticipantId | String | The ID of the participant. | No |  |
| MessageID | String | The ID of the message. | No |  |
| AssetID | String | The ID of the asset. | No |  |
| EventType | String | The type of the event. | No |  |
| FuelType | String | The type of the fuel. | No |  |
| MessageType | String | The type of the message. | No |  |
| UnavailabilityType | String | The type of the unavailability. | No |  |
| ServiceType | String | The ServiceType must be xml/XML/csv/CSV.  If not set, defaults to XML. | No |  |
| API Web service – Response | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Sample data** |
| Message Id | String |  |  | 99X0000000000001-ELXP-RMT-00020072 |
| Sequence Id | String |  |  | 1 |
| Message Heading | String |  |  | EXAMGEN |
| Event Type | String |  |  | Transmission unavailability |
| Published Date Time | String |  |  | 2017-04-04 13:57:10 |
| Participant ID | String |  |  | N\_TEST |
| Asset ID | String |  |  | N\_TESTASSET9999999 |
| Asset EIC Code | String |  |  | 51WX123123456789 |
| Affected Unit | String |  |  | N\_TESTXXXXXXXX |
| Asset Normal Capacity | String |  |  | 10000000000.0 |
| Available Capacity | String |  |  | 10000000000.0 |
| Event Start | String |  |  | 2017-03-01 00:00:00 |
| Event End | String |  |  | 2017-09-17 00:00:00 |
| Duration Uncertainty | String |  |  | Lorem ipsum dolor |
| Cause | String |  |  | Active |
| Event Status | String |  |  | Dismissed |
| Related Information | String |  |  | Aliquam erat volutpat. Etiam eget varius neque. |
| Active Flag | String |  |  | Y |
| Revision Number | String |  |  | 9 |
| Message Type | String |  |  | Unavailabilities of Electricity Facilities |
| Unavailability Type | String |  |  | Unplanned |

\* applicable only for Elexon portal

Note: Either Publication details(PublicationFrom and PublicationTo) or Event details(EvenStart and EventEnd) should be given in request. If both are not present in request proper message with HTTP code will be sent back as response.

### REMIT Flow – Message Detail Retrieval

**API service details for REMIT Message Detail Retrieval is as follows**

|  |  |
| --- | --- |
| **Service Name** | MessageDetailRetrievalService |
| **Method** | GET |
| **Input URL** | 1. **Message id, Sequence id, Participant id mentioned**   https://api.bmreports.com/BMRS/MessageDetailRetrieval/v1?APIKey=<APIKey>&MessageId=<MessageId>&ParticipantId=<ParticipantID>&SequenceId=<SequenceId>&ServiceType=<xml/XML/csv/CSV>   1. **Message id and Participant id mentioned**   https://api.bmreports.com/BMRS/MessageDetailRetrieval/v1?APIKey=<APIKey>&MessageId=<MessageId>&ParticipantId=<ParticipantID>&ServiceType=<xml/XML/csv/CSV>   1. **Message id, Participant id mentioned and Active Flag**   https://api.bmreports.com/BMRS/MessageDetailRetrieval/v1?APIKey=<APIKey>&MessageId=<MessageId>&ParticipantId=<ParticipantID>&ServiceType=<xml/XML/csv/CSV>&ActiveFlag=<ActiveFlag> |
| **Output Format** | XML |

API Web service – Request and Response format details:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Sample data** |
| APIKey | String | The key used to identify and authorize the request. | Yes |  |
| MessageId | String | Message ID | Yes |  |
| ParticipantId | String | Participant ID for the remit message | Yes |  |
| SequenceId | Integer | Sequence Id for the Message | No |  |
| ActiveFlag | String | Active Flag to be given as Y/N | No |  |
| ServiceType | String | The ServiceType must be xml/XML/csv/CSV.  If not set, defaults to XML. | No |  |
| API Web service – Response | | | | |
| Field Name | Field Type | Remarks | Mandatory | Sample data |
| Message Id | String |  |  | 99X0000000000001-ELXP-RMT-00020072 |
| Sequence Id | String |  |  | 1 |
| Message Heading | String |  |  | EXAMGEN |
| Event Type | String |  |  | Transmission unavailability |
| Published Date Time | String |  |  | 2017-04-04 13:57:10 |
| Participant ID | String |  |  | N\_TEST |
| Asset ID | String |  |  | N\_TESTASSET9999999 |
| Asset EIC Code | String |  |  | 51WX123123456789 |
| Asset Type | String |  |  | Production |
| Affected Unit | String |  |  | T\_COTPS-1 |
| Affected Area | String |  |  | N |
| Fuel Type | String |  |  | Fossil Gas |
| Asset Normal Capacity | String |  |  | 497.0 |
| Available Capacity | String |  |  | 466.0 |
| Unavailable Capacity | String |  |  | 31.0 |
| Event Start | String |  |  | 2017-03-01 00:00:00 |
| Event End | String |  |  | 2017-09-17 00:00:00 |
| Duration Uncertainty | String |  |  | Lorem ipsum dolor |
| Cause | String |  |  | Active |
| Event Status | String |  |  | Dismissed |
| Related Information | String |  |  | 4604 : De-load for operational reasons. |
| Active Flag | String |  |  | Y |
| Message Type | String |  |  | Unavailabilities of Electricity Facilities |
| Unavailability Type | String |  |  | Unplanned |
| Acer Code | String |  |  | A00000000.AA |
| Bidding Zone | String |  |  | 10YGB----------A |
| Outage Profile Segment Start | String |  |  | 2017-04-04 13:30:00 |
| Outage Profile Segment End | String |  |  | 2017-04-04 13:40:00 |
| Outage Profile Segment Capacity | String |  |  | 9999999998 |
| Revision Number | Integer |  |  | 3 |

## Legacy BMRS Data

### Temperature Data

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | temperatureDataService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/TEMP/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate =<ToDate>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | Default Sorting: Spot Time (Ascending)  Input data flow : TEMP, REFTEMP |
| **Comments** | Default Value (if non specified): From Date = Current System Date – 3 months (configurable) ,To Date = Current System Date (i.e. Today) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| API Webservice – Request - Temperature Data | | | | |
| **Logical Field Name** | **Field Type** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | Yes | - | AP8DA23 |
| From Date | String | No | YYYY-MM-DD | 2014-12-31 |
| To Date | String | No | YYYY-MM-DD | 2014-12-31 |
| Service Type | String | No | - | csv/CSV/xml/XML |

|  |  |
| --- | --- |
| API Webservice – Response - Temperature Data | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “TEMPERATURE DATA” |
| **Body Record:** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample values** |
| Record Type | String | - | No | TEMP | Fixed string value “TEMP” |
| Spot (Date)Time | Date | - | No | YYYY-MM-DD | 2014-10-13 |
| Temperature Out-Turn | Double | - | No | - | 9.5 |
| Normal Reference Temperature | Double | - | No | - | 9.6 |
| Low Reference Temperature | Double | - | No | - | 12.5 |
| High Reference Temperature | Double | - | No | - | 12.5 |
| Active Flag | String | - | No | - | Y |

**CSV Download service**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample values** |
| Record Type | String | - | No | TEMP | Fixed string value “TEMP” |
| Spot (Date)Time | Date | - | No | YYYYMMDD | 20141013 |
| Temperature Out-Turn | Double | - | No | - | 9.5 |
| Normal Reference Temperature | Double | - | No | - | 9.6 |
| Low Reference Temperature | Double | - | No | - | 12.5 |
| High Reference Temperature | Double | - | No | - | 12.5 |

**NOTE :**

* **Also note that, even in cases where ‘From Date’ and ‘To Date’ are defined as optional with default values, either both should be absent or both have to be present.**
* **FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.**

**Example File:**

HDR,TEMPERATURE DATA

TEMP,20081011,18.3,17.2,12.3,22.4

FTR,1

### Bid Offer Level Data

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | bidOfferLevelDataService |
| **Operation Name** | bidOfferLevelDataImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/BOD/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&BMUnitId=<BMUnitId>&BMUnitType=<BMUnitType>&LeadPartyName=<LeadPartyName>&NGCBMUnitName=<NGCBMUnitName>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: BM Unit Id (Ascending), BM Offer Pair Number (Descending), From Time (Ascending) 2. Input data flow : BOD   For other common description refer section 3.2 |
| **Comments** | 1. Default Value (if none specified): Settlement Date = {as per NRT condition}, Settlement Period = {as per NRT condition},BM Unit Id = \*, BM Unit Type = \*, Lead Party Name = \*, NGC BM Unit Name = \*, (\* implies all values) 2. NRT condition: Settlement Date and Settlement Period corresponding to **current SP + 2** |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request – Bid Offer Level Data | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | String | - | No | 1 to 50 or \* | 12 |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Service Type | String | - | No | - | csv/xml/CSV/XML |

|  |  |
| --- | --- |
| API Webservice – Response - Bid Offer Level Data | |
| **Header Record:** |  |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “BID OFFER LEVEL DATA” |
| Settlement Date | From input parameter |
| Settlement Period | From input parameter |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Records :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | “BOD” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | Date | - | No | yyyy-mm-dd | 2000-10-16 |
| Settlement Period | Integer | - | No | - | 1 |
| BM Offer Pair Number | Integer | - | No | - | 1, -1, etc. |
| From Time | Date | - | No | yyyy-mm-dd hh:mm:ss | 2000-10-16 17:30:00 |
| From Level | Integer | - | No | - | 0 |
| To Time | Date | - | No | yyyy-mm-dd hh:mm:ss | 2000-10-16 17:30:00 |
| To Level | Integer | - | No | - | 0 |
| Bid Price | Double | - | No | - | 0 |
| Offer Price | Double | - | No | - | 0 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | “BOD” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | Date | - | No | yyyymmdd | 20001016 |
| Settlement Period | Integer | - | No | - | 1 |
| BM Offer Pair Number | Integer | - | No | - | 1, -1, etc. |
| From Time | Date | - | No | yyyymmddhhmmss | 20001016173000 |
| From Level | Integer | - | No | - | 0 |
| To Time | Date | - | No | yyyymmddhhmmss | 20001016173000 |
| To Level | Integer | - | No | - | 0 |
| Bid Price | Double | - | No | - | 0 |
| Offer Price | Double | - | No | - | 0 |

**Example File:**

HDR,BID OFFER LEVEL DATA,20001016,\*

BOD,T\_GENSET176, 20001016,1,-2,20001016173000,-10.000,20001016180000,-10.000,10.00000,15.00000

BOD,T\_GENSET176, 20001016,2,-1,20001016173000,-10.000,20001016180000,-10.000,20.00000,25.00000

BOD,T\_GENSET176, 20001016,3,1,20001016173000,10.000,20001016180000,10.000,30.00000,35.00000

BOD,T\_GENSET176, 20001016,4,2,20001016173000,10.000,20001016180000,10.000,40.00000,45.00000

BOD,T\_GENSET176, 20001016,5,3,20001016173000,10.000,20001016180000,10.000,50.00000,55.00000

FTR,5

### Credit Default Notice Data

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | creditDefaultNoticeDataService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/CDN/<VersionNo>?APIKey=<APIKey>&FromClearedDate=<FromClearedDate>&ToClearedDate=<ToClearedDate>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Participant ID (ascending), 2. Entries with a null Cleared Date and Cleared Period (ie. Parties that are still in default) are displayed above entries with non-null Cleared Date and Cleared Period. 3. Input data flow : CDN |
| **Comments** | 1. Default Value (if none specified): From Cleared Date = Current System Date (i.e. Today) – 30 (configurable) To Cleared Date = NULL |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - Credit Default Notices | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| From Cleared Date | String | DateTime | No | YYYY-DD-MM | 2014-12-12 |
| To Cleared Date | String | DateTime | No | YYYY-DD-MM | 2014-12-12 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - Credit Default Notices | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “CREDIT DEFAULT NOTICE DATA” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record:** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “CDN” |
| Participant ID | String | - | No | - | NEEB |
| Credit Default Level | Integer | - | No | - | 1 |
| Entered Default Settlement Date | Date | - | No | yyyy-mm-dd | 2003-02-24 |
| Energy Default Settlement Period | Integer | - | No | - | 2 |
| Cleared Default Settlement Date | Date | - | No | yyyy-mm-dd | 2003-02-24 |
| Cleared Default Settlement Period | Integer | - | No | - | 21 |
| Cleared Default Text | String | - | No | - | Credit Cover Percentage <= 75% of credit limit(level default) |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV download service:** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “CDN” |
| Participant ID | String | - | No | - | NEEB |
| Credit Default Level | Integer | - | No | * + - 1. - | 1 |
| Entered Default Settlement Date | Date | - | No | * + - 1. yyyymmdd | 20030224 |
| Energy Default Settlement Period | Integer | - | No | * + - 1. - | 2 |
| Cleared Default Settlement Date | Date | - | No | * + - 1. yyyymmdd | 20030224 |
| Cleared Default Settlement Period | Integer | - | No | - | 21 |
| Cleared Default Text | String | - | No | - | Credit Cover Percentage <= 75% of credit limit(level default) |

**NOTE :**

* **Also note that, even in cases where ‘From Date’ and ‘To Date’ are defined as optional with default values, either both should be absent or both have to be present.**
* **FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.**

**Example File:**

HDR,CREDIT DEFAULT NOTICE DATA

CDN,MANW,2,20130714,4,20141212,41,Credit Cover Percentage <= 90% of Credit Limit (Level 2 Default)

CDN,MANW,2,20130714,4,20141123,41,Credit Cover Percentage <= 90% of Credit Limit (Level 2 Default)

CDN,MANW,2,20130714,4,20141124,41,Credit Cover Percentage <= 90% of Credit Limit (Level 2 Default)

FTR,3

### System Warnings

API service details for the flow is as follows

|  |  |
| --- | --- |
| **Service Name** | systemWarningsService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/SYSWARN/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Warning Date/Time (Ascending) 2. Input data flow : System Messages |
| **Comments** | Default Value (if none specified): From Date= Current System Date – 1 (configurable)  To Date= Current System Date |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request- SystemWarning | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| From Date | String | - | No | YYYY-MM-DD | 2014-12-31 |
| To Date | String | - | No | YYYY-MM-DD | 2014-12-31 |
| Service Type | String | - | No | - | csv/CSV/xml/XML |

|  |  |
| --- | --- |
| API Webservice – Response- SystemWarning | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | HDR |
| File Type | SYSTEM WARNING |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record:** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| RecordType | String | - | No | - | SYSWARN |
| Warning Date/Time | Date | - | No | yyyy-mm-dd hh:mm | 2014-10-26 22:23 |
| Warning Text | String | - | No | - | Text Data |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| RecordType | String | - | No | - | SYSWARN |
| Warning Date/Time | Date | - | No | yyyymmddhhmm | 201410262223 |
| Warning Text | String | - | No | - | Text Data |

**NOTE :**

* **Also note that, even in cases where ‘From Date’ and ‘To Date’ are defined as optional with default values, either both should be absent or both have to be present.**
* **FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.**

**Example File**

HDR,SYSTEM WARNINGS

SYSWARN,20141222130000,From : Power System Manager - National Grid Electricity Control Centre

NOTIFICATION CANCELLATION of GB TRANSMISSION SYSTEM WARNING

The GB Transmission System Warning NOTIFICATION OF INADEQUATE SYSTEM MARGIN issued for the period from 09:00 hrs to 23:30 hrs on Wednesday 20/12/2014 has been cancelled

The following GB Transmission System Warnings remain in force

none

Notification Issued at 13:15 hrs on 20/12/2014

Issued by John Hughes National Grid Electricity Control Centre

25753732 CANC 20/12/14 20/12/14 20/12/14

FTR,1

### Balancing Services Adjustment Action Data

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | balancingServicesAdjustmentActionDataService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/DISBSAD/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending) 2. Input data flow : DISBSAD |
| **Comments** | 1. Default Value : Settlement Date= Current System Date (i.e. Today), Settlement Period = \*. |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - BalancingServicesAdjustmentActionData | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2041-08-15 |
| Settlement Period | String | - | No | - | 1 to 50 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - BalancingServicesAdjustmentActionData | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string “BALANCING SERVICES ADJUSTMENT DATA” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | DISAG |
| Settlement Date | Date | - | No | yyyy-mm-dd | 2014-10-18 |
| Settlement Period | Integer | - | No | - | 1 |
| Action Identifier | Integer | - | No | - | 6 |
| SO-Flag | String | - | No | - | T |
| Balancing Services Adjustment Action STOR Provider Flag | String | - | No | - |  |
| Action Cost | Double | - | No | - | 1031.53 |
| Action Volume | Double | - | No | - | 150.25 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | DISAG |
| Settlement Date | Date | - | No | yyyymmdd | 20141018 |
| Settlement Period | Integer | - | No | - | 1 |
| Action Identifier | Integer | - | No | - | 6 |
| SO-Flag | String | - | No | - | T |
| Balancing Services Adjustment Action STOR Provider Flag | String | - | No | - |  |
| Action Cost | Double | - | No | - | 1031.53 |
| Action Volume | Double | - | No | - | 150.25 |

**Example File**

HDR,BALANCING SERVICES ADJUSTMENT DATA

DISAG,20140906,1,1001,T,0.0,28.0

DISAG,20140906,1,1002,F,0.0,10.0

FTR,2

### Balancing Service Adjustment Data

API service details for the flow is as follows

|  |  |
| --- | --- |
| **Service Name** | balancingServiceAdjustmentDataService |
| **Method** | GET |
| **Input URL** | http://<host>:<port>/BMRS/ NETBSAD /<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>& SettlementPeriod =< SettlementPeriod >&IsTwoDayWindow=<IsTwoDayWindow>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending) 2. Input data flow : NETBSAD   For other common description refer section 3.2 |
| **Comments** | 1. Default Value (if none specified   Settlement Date= Current System Date (i.e. Today), Settlement Period = \*, isTwoDayWindow=false |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - BalancingServiceAdjustmentData | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2016-02-04 |
| Settlement Period | String | - | No | - | 1 |
| isTwoDayWindow | String | - | No | - | false |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - BalancingServiceAdjustmentData | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | HDR |
| File Type | BALANCING SERVICE ADJUSTMENT DATA |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | BSAD |
| Settlement Date | Date | - | No | Yyyy-mm-dd | 2014-10-18 |
| Settlement Period | Integer | - | No | - | 1 |
| Net Energy Sell-Price Cost Adjustment – (ESCA) £ | Double | - | No | - | 60.23 |
| Net Energy Sell-Price Volume Adjustment – (ESVA) MWh | Double | - | No | - | 1031.53 |
| Net System Sell-Price Volume Adjustment – (SSVA) MWh | Double | - | No | - | 150.25 |
| Sell-Price Price Adjust – (SPA) £/MWh | Double | - | No | - | 12.00 |
| Net Energy Buy-Price Cost Adjustment – (EBCA) £ | Double | - | No | - | 0.0 |
| Net Energy Buy-Price Volume Adjustment – (EBVA) MWh | Double | - | No | - | 0.000 |
| Net System Buy-Price Volume Adjustment – (SBVA) MWh | Double | - | No | - | 0.000 |
| Buy-Price Price Adjust (BPA) £/MWh | Double | - | No | - | 0.00 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download service :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | BSAD |
| Settlement Date | Date | - | No | yyyymmdd | 20141018 |
| Settlement Period | Integer | - | No | - | 1 |
| Net Energy Sell-Price Cost Adjustment – (ESCA) £ | Double | - | No | - | 60.23 |
| Net Energy Sell-Price Volume Adjustment – (ESVA) MWh | Double | - | No | - | 1031.53 |
| Net System Sell-Price Volume Adjustment – (SSVA) MWh | Double | - | No | - | 150.25 |
| Sell-Price Price Adjust – (SPA) £/MWh | Double | - | No | - | 12.00 |
| Net Energy Buy-Price Cost Adjustment – (EBCA) £ | Double | - | No | - | 0.0 |
| Net Energy Buy-Price Volume Adjustment – (EBVA) MWh | Double | - | No | - | 0.000 |
| Net System Buy-Price Volume Adjustment – (SBVA) MWh | Double | - | No | - | 0.000 |
| Buy-Price Price Adjust (BPA) £/MWh | Double | - | No | - | 0.00 |

**NOTE :**

* **Also note that, even in cases where ‘From Date’ and ‘To Date’ are defined as optional with default values, either both should be absent or both have to be present.**
* **FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.**

**Example File**

HDR,BALANCING SERVICES ADJUSTMENT DATA

BSAD,20140418,1,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0

BSAD,20140418,2,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0

BSAD,20140418,3,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0

FTR,3

### Rolling System Frequency

API service details for the flow is as follows

|  |  |
| --- | --- |
| **Service Name** | rollingSystemFrequencyService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/FREQ/<VersionNo>?APIKey=<APIKey>&FromDateTime=<FromDateTime>&ToDateTime=<ToDateTime>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Date (Ascending), SpotTime (Ascending) 2. Input data flow : FREQ |
| **Comments** | 1. Default Value (if none specified): From DateTime = Current System DateTime – 48 Hr (configurable) To DateTime = Current System DateTime |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - Rolling System Frequency | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| From DateTime | String | - | No | YYYY-MM-DD HH:MM:SS | 2014-10-10 10:10:10 |
| To DateTime | String | - | No | YYYY-MM-DD HH:MM:SS | 2014-10-10 10:10:10 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - Rolling System Frequency | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “SYSTEM FREQUENCY DATA” |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Body Record :** | | | | | | |
| **Logical Field Name** | **Field Type** | | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | | - | No | VD | VD |
| Date | Date | | - | No | YYYY-MM-DD | 2014-10-10 |
| Spot Time | Date | | - | No | HH:mm:ss | 10:42:55 |
| Frequency(Hz) | Double | | - | No | Derived data = Sum of demand across all the Fuel type (N0509) | 50000.09 |
| Active Flag | String | | - | No | - | Y |
| **CSV Download Service :** | | | | | | |
| **Logical Field Name** | | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | | String | - | No | VD | VD |
| DateTime | | Date | - | No | yyyyMMddHHmmss | 20141010101010 |
| Frequency(Hz) | | Double | - | No | Derived data = Sum of demand across all the Fuel type (N0509) | 50000.00 |

**NOTE :**

* **Also note that, even in cases where ‘From Date Time’ and ‘To Date Time’ are defined as optional with default values, either both should be absent or both have to be present.**
* **FromDateTimeshould not be greater than ToDateTime. If so exception is thrown with appropriate Message.**

**Example File:**

HDR, SYSTEM FREQUENCY DATA

FREQ,20080428170500,49.101

FREQ,20080428171000,49.393

FREQ,20080428171500,49.573

FREQ,20080428172000,49.032

FREQ,20080428172500,49.432

FTR,5

### Market Index Data

API service details for the flow is as follows

|  |  |
| --- | --- |
| **Service Name** | marketIndexDataService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/MID/<VersionNo>?APIKey=<APIKey>&FromSettlementDate=<FromSettlementDate>&ToSettlementDate=<ToSettlementDate>&Period=<Period>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Data Provider (Alphabetic Ascending), Settlement Date (Ascending) ,Settlement Period (Ascending) 2. Input data flow : MID |
| **Comments** | 1. Default Value (if none specified): From Settlement Date= Current System Date – 1 (i.e. Yesterday), To Settlement Date= Current System Date (i.e. Today) ,Settlement Period = \* 2. Data available only for Settlement Periods before the Current Settlement Period. |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice Request - Market Index Data | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| From Settlement Date | String | - | No | YYYY-MM-DD | 2014-08-10 |
| To Settlement Date | String | - | No | YYYY-MM-DD | 2014-08-11 |
| Period | String | - | No | - | 1 to 50 or \* |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | csv/CSV/XML/xml |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| API Webservice Response - Market Index Data | | | | | | |
| **Header Record:** | | | | | | |
| **Report Output Field Mapping** | | **Condition** | | | | |
| Record Type | | Fixed string value “HDR” | | | | |
| File Type | | Fixed string value “MARKET INDEX DATA” | | | | |
| **Body Record:** | | | | | | | |
| **Logical Field Name** | **Field Type** | | **Remarks** | **Mandatory** | **XML Format** | **Sample data** | |
| Record Type | String | | - | No | - | MID | |
| Data Provider | String | | - | No | - | APXMIDP | |
| Settlement Date | Date | | - | No | YYYY-MM-DD | 2014-08-11 | |
| Settlement Period | Integer | | - | No | - | 1 to 50 | |
| Price | Double | | - | No | - | 24.09 | |
| Volume | Double | | - | No | - | 434.4 | |
| Active Flag | String | | - | No | - | Y | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download service:** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | MID |
| Data Provider | String | - | No | - | APXMIDP |
| Settlement Date | Date | - | No | YYYYMMDD | 20140811 |
| Settlement Period | Integer | - | No | - | 50 |
| Price | Double | - | No | - | 24.09 |
| Volume | Double | - | No | - | 434.400 |

**NOTE :**

* **Also note that, even in cases where** ‘**FromSettlementDate** **and ‘ToSettlementDate** **are defined as optional with default values, either both should be absent or both have to be present.**
* **FromSettlementDate** **should not be greater than ToSettlementDate** **. If so exception is thrown with appropriate Message.**

**Example File:**

HDR,MARKET INDEX DATA

MID,NNCUK,20001018,33,10.000,40.000

MID,NNCUK,20001018,36,20.000,50.000

MID,NNCUK,20001018,37,10.000,30.000

FTR,3

### Daily energy Volume Data

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | dailyEnergyVolumeDataService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/DEVINDOD/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Settlement Day (Ascending) 2. Input data flow : INDOD |
| **Comments** | 1. Default Value (if none specified): From Date= Current System date-90 days To Date= Current System Date |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request – DailyEnergyVolumeData | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| From Date | String | - | No | YYYY-MM-DD | 2013-10-24 |
| To Date | String | - | No | YYYY-MM-DD | 2013-10-24 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response – DailyEnergyVolumeData | |
| **Header Record** |  |
| **Report Output Field Mapping** | **Condition** |
| Record Type | HDR |
| File Type | DAILY ENERGY VOLUME DATA |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record:** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | INDOD |
| Settlement Day | Date | - | No | yyyy-mm-dd | 2014-07-27 |
| Daily Energy Volume Outturn | Integer | - | No | - | 628909 |
| Daily Energy Volume Normal Reference | Integer | - | No | - | 594930 |
| Daily Energy Volume Low Reference | Integer | - | No | - | 542739 |
| Daily Energy Volume High Reference | Integer | - | No | - | 631710 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service:** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | INDOD |
| Settlement Day | Date | - | No | yyyymmdd | 20140727 |
| Daily Energy Volume Outturn | Integer | - | No | - | 628909 |
| Daily Energy Volume Normal Reference | Integer | - | No | - | 594930 |
| Daily Energy Volume Low Reference | Integer | - | No | - | 542739 |
| Daily Energy Volume High Reference | Integer | - | No | - | 631710 |

**NOTE :**

* **Also note that, even in cases where ‘From Date’ and ‘To Date’ are defined as optional with default values, either both should be absent or both have to be present.**
* **FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.**

**Example File**

HDR,DAILY ENERGY VOLUME DATA

INDOD,20081016,43323,40121,38124,47634

FTR,1

### Non BM STOR Instructed Volume Data

API service details for the flow is as follows

|  |  |
| --- | --- |
| **Service Name** | nonBMStorInstructedVolumeDataService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/NONBM/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Settlement Date(Ascending), Settlement Period (Ascending) 2. Input data flow : NONBM |
| **Comments** | 1. Default Value (if none specified): From Date = Current System Date – 1, To Date = Current System Date |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - Non - BM Stor Instructed Volumes | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| From Date | String | - | No | YYYY-MM-DD | 2014-08-11 |
| To Date | String | - | No | YYYY-MM-DD | 2014-08-12 |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | csv/CSV/XML/xml |

API Webservice – Response - Non - BM Stor Instructed Volumes

|  |  |
| --- | --- |
| **Header Record :** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “NON-BM STOR INSTRUCTED VOLUME DATA” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | NONBM |
| Settlement Date | Date | - | No | Yyyy-mm-dd | 2014-08-11 |
| Settlement Period | Integer | - | No | - | 1 to 50 |
| SystemZone | String | - | No | - | Always N |
| NONBM Publish Time | Date | - | No | Yyyy-mm-dd hh:mm:ss | 2014-08-10 15:22:00 |
| Instructed Volume (MWh) | Integer | - | No | - | 12345 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | NONBM |
| Settlement Date | Date | - | No | yyyymmdd | 20140811 |
| Settlement Period | Integer | - | No | - | 1 to 50 |
| SystemZone | String | - | No | - | Always N |
| NONBM Publish Time | Date | - | No | yyyymmddhhmmss | 20140810152200 |
| Instructed Volume (MWh) | Integer | - | No | - | 12345 |

**NOTE :**

* **Also note that, even in cases where ‘From Date’ and ‘To Date’ are defined as optional with default values, either both should be absent or both have to be present.**
* **FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.**

**Example File:**

HDR,NON-BM STOR INSTRUCTED VOLUME DATA

NONBM,20141109,1,N,20141109003000,12345

NONBM,20141109,2,N,20141109010000,12345

NONBM,20141109,3,N,20141109013000,12345

FTR,3

### Applicable Balancing Services Volume Data

API service details for the flow is as follows

|  |  |
| --- | --- |
| **Service Name** | applicableBalancingServiceVoulmeDataService |
| **Operation Name** | applicableBalancingServiceVoulmeDataImpl |
| **Method** | GET |
| **Input URL** | http://<host>:<port>/BMRS/QAS/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&BmUnitId=<BmUnitId>&BMUnitType=<BMUnitType>&LeadPartyName=<LeadPartyName>&NgcBmUnitName=<NgcBmUnitName>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Settlement Period (Ascending) 2. Input data flow : QAS   For other common description refer section 3.2 |
| **Comments** | 1. Default Value (if none specified): Settlement Date = Current Date-1, Settlement Period = \*, One of BM Unit ID / NGC BM Unit ID is mandatory. (\* implies all values) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - Applicable Balancing Services Volume | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Settlement Date | String | - | No | YYYY-MM-DD HH:MM:SS | 2013-10-24 05:52:45 |
| Settlement Period | String | - | No | 1 to 50 or \* | 12 |
| BM Unit ID | String | - | No | - | - |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | - |
| Service Type | String | - | No | - | csv/CSV/xml/XML |

**NOTE: At least one of BM Unit ID or NGC BM Unit Name is mandatory**

API Webservice – Response - Applicable Balancing Services Volume

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Header Record:** | | | | | | |
| **Report Output Field Mapping** | | **Condition** | | | | |
| Record Type | | Fixed string value “HDR” | | | | |
| **File Type** | | **Fixed string value “APPLICABLE BALANCING SERVICES VOLUME”** | | | | |
| **Body Record :Logical Field Name** | **Field Type** | | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | | - | No | - | QAS |
| BM Unit Id | String | | - | No | - | - |
| BM Unit Type | String | | - | No | - | - |
| Lead Party Name | String | | - | No | - | - |
| NGC BM Unit Name | String | | - | No | - | BAGE-1 |
| Settlement Date | Date | | - | No | Yyyy-mm-dd | 2014-07-27 |
| Settlement Period | Integer | | - | No | - | 12 |
| Balancing Service Volume | Double | | - | No | - | - |
| Active Flag | String | | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service:** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | QAS |
| BM Unit Id | String | - | No | - | - |
| BM Unit Type | String | - | No | - | - |
| Lead Party Name | String | - | No | - | - |
| NGC BM Unit Name | String | - | No | - | BAGE-1 |
| Settlement Date | Date | - | No | yyyymmdd | 20140727 |
| Settlement Period | Integer | - | No | - | 12 |
| Balancing Service Volume | Double | - | No | - | - |

**Example File:**

HDR,APPLICABLE BALANCING SERVICES VOLUME,20001016,1

QAS,T\_GENERATE,1,38889.000

QAS,E\_EMBED,1,39066.000

FTR,2

### Rolling System Demand

API service details for the flow is as follows

|  |  |
| --- | --- |
| **Service Name** | rollingSystemDemandService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/ROLSYSDEM/<VersionNo>?APIKey=<APIKey>&FromDateTime=<FromDateTime>&ToDateTime=<ToDateTime>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Date (Ascending),Time (Ascending) 2. Input data flow : FUELINST |
| **Comments** | Default Value (if none specified): From Date = Current Date – 2 days, To Date = Current Date |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - Rolling System Demand | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| From DateTime | String | - | No | YYYY-MM-DD HH:MM:SS | 2014-10-10 10:10:10 |
| To DateTime | String | - | No | YYYY-MM-DD HH:MM:SS | 2014-10-10 10:10:10 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - Rolling System Demand | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “ROLLING SYSTEM DEMAND” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body records :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | VD | VD |
| Date | Date | - | No | YYYY-MM-DD | 2013-10-24 |
| Time | Date | - | No | HH:mm:ss | 10:42:55 |
| Demand(MW) | Integer | - | No | Derived data = Sum of demand across all the Fuel type (N0509) | 50000 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service:** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | VD | VD |
| Date | String | - | No | yyyyMMddHHmmss | 20131024101010 |
| Demand(MW) | Integer | - | No | Derived data = Sum of demand across all the Fuel type (N0509) | 50000 |

**NOTE :**

* **Also note that, even in cases where ‘From Date’ and ‘To Date’ are defined as optional with default values, either both should be absent or both have to be present.**
* **FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.**
* **For CSV output Date and Time fields are concatenated and displayed**

**Example File:**

HDR,SYSTEM DEMAND DATA

VD,20141102055500,22500

VD,20141102055500,22671

VD,20141102055500,22944

FTR,3

### Peak Wind Generation Forecast

API service details for the flow is as follows

|  |  |
| --- | --- |
| **Service Name** | peakWindGenerationForecastService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/WINDFORPK/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Date (Ascending) 2. Input data flow : WINDFOR |
| **Comments** | 1. Default Value (if non specified): From Date = Current System Date (i.e. Today) To Date = Current System Date + 1 (i.e Tomorrow) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - Peak Wind Generation Forecast | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| From Date | String | - | No | YYYY-MM-DD | 2014-10-10 |
| To Date | String | - | No | YYYY-MM-DD | 2014-10-10 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - Peak Wind Generation Forecast | |
| **Header Record** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “PEAK WIND GENERATION FORECAST” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| RecordType | String | - | No | - | WINDFORPK |
| Day & Date | Date | - | No | YYYY-MM-DD | 2014-10-10 |
| Time of Maximum Wind Generation | Date | - | No | HH:mm | 14:00 |
| Peak (Max) MW | Integer | - | No | - | 123 |
| Total Metered Capacity (MW) | Integer | - | No | - | 456 |
| Data Last updated | Date | - | No | Yyyy-mm-dd hh:mm | 2014-10-1010:10 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download service** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| RecordType | String | - | No | - | WINDFORPK |
| Day & Date | Date | - | No | yyyymmdd | 20141212 |
| Time of Maximum Wind Generation | Date | - | No | HHmm | 1400 |
| Peak (Max) MW | Integer | - | No | - | 123 |
| Total Metered Capacity (MW) | Integer | - | No | - | 456 |
| Data Last updated | Date | - | No | yyyymmddhhmm | 201410101010 |

**NOTE :**

* **Also note that, even in cases where ‘From Date’ and ‘To Date’ are defined as optional with default values, either both should be absent or both have to be present.**
* **FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.**

**Example File:**

HDR, PEAK WIND GENERATION FORECAST

WINDFORPK,20140726,2100,697,1333,201407260430

FTR,1

### Wind Generation Forecast and Out-turn Data

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | windForecastOutTurnService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/WINDFORFUELHH/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Date (Ascending), Settlement Period (Ascending) 2. Input data flow : WINDFOR, FUELHH |
| **Comments** | 1. If data for a column not available for a row, it is displayed as “NULL” 2. Default Value (if none specified): From Date = Current System Date - 1 , To Date = Current System Date +1 |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request -Wind Forecast Out-turn | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| From Date | String | - | No | YYYY-MM-DD | 2014-12-31 |
| To Date | String | - | No | YYYY-MM-DD | 2014-12-31 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - Wind Forecast Out-turn | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “WIND GENERATION FORECAST AND OUTTURN DATA” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record:** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed String “WIND” |
| Settlement Date | Date | - | No | Yyyy-mm-dd | 2014-07-29 |
| Settlement Period | Integer | - | No | - | 1 |
| Publication Time (Initial Forecast) | String | - | No | Yyyy-mm-dd hh:mm:ss | 2008-04-27 17:00:00 |
| Initial forecast Generation (MW) | String | - | No | - | - |
| Publication Time (Latest Forecast) | String | - | No | Yyyy-mm-dd hh:mm:ss | 2008-04-27 17:00:00 |
| Latest forecast Generation (MW) | String | - | No | - | - |
| Publication Time (Out-turn) | String | - | No | Yyyy-mm-dd hh:mm:ss | 2008-04-27 17:00:00 |
| Outturn Generation (MW) | String | - | No | - | - |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed String “WIND” |
| Settlement Date | Date | - | No | yyyymmdd | 20140729 |
| Settlement Period | Integer | - | No | - | 1 |
| Publication Time (Initial Forecast) | String | - | No | yyyymmddhhmmss | 20080427170000 |
| Initial forecast Generation (MW) | String | - | No | - | - |
| Publication Time (Latest Forecast) | String | - | No | yyyymmddhhmmss | 20080427170000 |
| Final forecast Generation (MW) | String | - | No | - | - |
| Publication Time (Out-turn) | String | - | No | yyyymmddhhmmss | 20080427170000 |
| Outturn Generation (MW) | String | - | No | - | - |

**NOTE :**

* **Also note that, even in cases where ‘From Date’ and ‘To Date’ are defined as optional with default values, either both should be absent or both have to be present.**
* **FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.**

**Example File:**

HDR,WIND GENERATION FORECAST AND OUTTURN DATA

WIND,20080429,1,20080427170000,1001,20080428170000,1011,20080429003500,1221

WIND,20080429,11,20080427170000,1147,20080428170000,1157,20080429053500,1221

WIND,20080429,17,20080427170000,1205,20080428170000,1200,20080429083500,1221

FTR,3

### Generation By Fuel Type (Current)

**API service details for the flow is as follows:**

|  |  |
| --- | --- |
| **Service Name** | generationByFuelTypeCurrentService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/FUELINSTHHCUR/<VersionNo>?APIKey=<APIKey>&FuelType=<FuelType>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: GB Generating Plant (Ascending) 2. Input data flow : FUELINST , FUELHH |
| **Comments** | 1. If no value is specified for fuel type then it will imply all Fuel Types 2. Any value from “Fuel Type Set” (Ref: IDD Valid Sets) 3. All negative values are capped to zero. 4. INT which implies interconnectors (INTFR OR INTIRL OR INTNED OR INTEW OR INTNEM) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - Generation By Fuel Type (Current) | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| FuelType | String | - | No | - | COAL |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Request - Generation By Fuel Type (Current) | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “GENERATION BY FUEL TYPE (CURRENT)” |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| API Webservice – Request - Generation By Fuel Type (Current) | | | | | | |
|  | |  | | | | |
| **Body Records :** |  | |  |  |  |  |
| **Logical Field Name** | **Field Type** | | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| RecordType | String | | - | No | - | FUELINSTHHCUR |
| GB Generating Plant | String | | - | No | - | CCGT |
| Bidding Zone | String | | - | No |  | FRANCE |
| Current MW | Integer | | - | No | - | 12472 |
| Current %age | Double | | - | No | - | 39.2 |
| Current Total MW | Integer | | - | No | - | 31854 |
| Current Total % | Double | | - | No | * + - 1. - | 100 |
| Last Half Hour | Date | | - | No | * + - 1. yyyy-mm-dd hh:mm:ss | 2014-07-29 13:00:00 |
| Last Half Hour MW | Integer | | - | No | * + - 1. - | 12522 |
| Last Half Hour %age | Double | | - | No | * + - 1. - | 39.3 |
| Last Half Hour Total MW | Integer | | - | No | - | 31825 |
| Last Half Hour Total % | Double | | - | No | * + - 1. - | 100 |
| Last 24 Hours | Date | | - | No | * + - 1. yyyy-mm-dd hh:mm:ss | 2014-07-29 13:00:00 |
| Last 24 Hours MW | Integer | | - | No | * + - 1. - | 273320 |
| Last 24 Hours %age | Double | | - | No | * + - 1. - | 37.3 |
| Last 24 Hours Total MW | Integer | | - | No | * + - 1. - | 733475 |
| Last 24 Hours Total % | Double | | - | No | * + - 1. - | 100 |
| Data Last Updated | Date | | - | No | * + - 1. yyyy-mm-dd hh:mm:ss | 2014-07-29 13:00:00 |
| Active Flag | String | | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Records :** | |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| RecordType | String | - | No | - | FUELINSTHHCUR |
| GB Generating Plant | String | - | No | - | CCGT |
| Current MW | Integer | - | No | - | 12472 |
| Current %age | Decimal | - | No | - | 39.2 |
| Current Total MW | Integer | - | No | - | 31854 |
| Current Total % | Decimal | - | No | - | 100 |
| Last Half Hour | Date | - | No | * + - 1. yyyymmddhhmmss | 20140729130000 |
| Last Half Hour MW | Integer | - | No | * + - 1. - | 12522 |
| Last Half Hour %age | Decimal | - | No | * + - 1. - | 39.3 |
| Last Half Hour Total MW | Integer | - | No | * + - 1. - | 31825 |
| Last Half Hour Total % | Decimal | - | No | * + - 1. - | 100 |
| Last 24 Hours | Date | - | No | * + - 1. yyyymmddhhmmss | 20140729130000 |
| Last 24 Hours MW | Integer | - | No | * + - 1. - | 273320 |
| Last 24 Hours %age | Decimal | - | No | * + - 1. - | 37.3 |
| Last 24 Hours Total MW | Integer | - | No | * + - 1. - | 733475 |
| Last 24 Hours Total % | Decimal | - | No | * + - 1. - | 100 |
| Data Last Updated | Date | - | No | * + - 1. yyyymmddhhmmss | 20140729130010 |

**Example File:**

HDR,GENERATION BY FUEL TYPE CURRENT

FUELINSTHHCUR,CCGT,1523,96.9,153,100.0,20141202131502,145,93.9,786,100.0,20141212140002,486,17.9,475,100.0,Y,20141214150000

FUELINSTHHCUR,COAL,78954,78.6,954,100.0,20141102131502,354,96.3,516,100.0,20141112140002,954,82.7,127,100.0Y,20141216150000

FTR,2

### Generation by Fuel Type (24H Instant Data)

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | generationByFuelType24HInstantDataService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/FUELINST/<VersionNo>?APIKey=<APIKey>&FromDateTime=<FromDateTime>&ToDateTime=<ToDateTime>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending) 2. Input data flow : FUELINST |
| **Comments** | 1. Default Value (if non specified): From DateTime = Current System DateTime – 24 Hr (configurable),To DateTime = Current System DateTime |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - Generation By Fuel Type (24H Instant Data) | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| From DateTime | String | - | No | YYYY-MM-DD HH:MM:SS | 2014-07-29 13:00:00 |
| To DateTime | String | - | No | YYYY-MM-DD HH:MM:SS | 2014-07-29 13:00:00 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - Generation By Fuel Type (24H Instant Data) | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “INSTANTANEOUS GENERATION BY FUEL TYPE DATA” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record :** | |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “FUELINST” |
| Settlement Date | Date | - | No | yyyy-mm-dd | 2014-12-12 |
| Settlement Period | Integer | - | No | - | 43 |
| Spot Time | Date | - | No | yyyy-mm-dd hh:mm:ss | 2008-04-28 17:05:03 |
| Bidding Zone | String | - | No |  | FRANCE |
| Bidding Zone Total Generation | Integer | - | No |  | 12032 |
| CCGT | Integer | - | No |  | 12032 |
| OIL | Integer | - | No | - | 12032 |
| COAL | Integer | - | No | - | 12032 |
| NUCLEAR | Integer | - | No | - | 12032 |
| WIND | Integer | - | No | - | 12032 |
| PS | Integer | - | No | - | 12032 |
| NPSHYD | Integer | - | No | - | 12032 |
| OCGT | Integer | - | No | - | 12032 |
| OTHER | Integer | - | No | - | 12032 |
| INTFR | Integer | - | No | - | 12032 |
| INTIRL | Integer | - | No | - | 12032 |
| INTNED | Integer | - | No | - | 12032 |
| INTEW | Integer | - | No | - | 12032 |
| INTNEM | Integer |  | No |  | 13032 |
| BIOMASS | Integer | - | No | - | 12032 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service:** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “FUELINST” |
| Settlement Date | Date | - | No | yyyymmdd | 20080428 |
| Settlement Period | Integer | - | No | - | 43 |
| Spot Time | Date | - | No | yyyymmddhhmmss | 20080428170503 |
| CCGT | Integer | - | No | - | 12032 |
| OIL | Integer | - | No | - | 12032 |
| COAL | Integer | - | No | - | 12032 |
| NUCLEAR | Integer | - | No | - | 12032 |
| WIND | Integer | - | No | - | 12032 |
| PS | Integer | - | No | - | 12032 |
| NPSHYD | Integer | - | No | - | 12032 |
| OCGT | Integer | - | No | - | 12032 |
| OTHER | Integer | - | No | - | 12032 |
| INTFR | Integer | - | No | - | 12032 |
| INTIRL | Integer | - | No | - | 12032 |
| INTNED | Integer | - | No | - | 12032 |
| INTEW | Integer | - | No | - | 12032 |
| BIOMASS | Integer | - | No | - | 12032 |
| INTNEM | Integer |  | No |  | 12032 |

**Note:**

* **Also note that, even in cases where ‘FromDateTime’ and ‘ToDateTime’ are defined as optional with default values, either both should be absent or both have to be present.**
* **FromDateTime should not be greater than ToDateTime. If so exception is thrown with appropriate Message.**

**Example File:**

HDR, INSTANTANEOUS GENERATION BY FUEL TYPE DATA

FUELINST,20080428,37,20080428170503,18137,1850,0,15315,7308,189,15,15,0,55,152,21,22,234,22

FUELINST,20080428,37,20080428171007,18134,1849,0,15312,7307,181,16,14,0,52,150,13,17,238,22

FTR,2

### Half Hourly Outturn Generation by Fuel Type

API service details for the flow is as follows

|  |  |
| --- | --- |
| **Service Name** | halfHourlyOutTurnGenerationByFuelTypeService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/FUELHH/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending) 2. Input data flow : FUELHH |
| **Comments** | Default Value (if none specified): From Date = Current System Date – 1 (i.e. Yesterday), To Date = Current System Date (i.e. Today) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - Half Hourly Outturn Generation By Fuel Type Data | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| From Date | String | - | No | YYYY-MM-DD | 2014-12-31 |
| To Date | String | - | No | YYYY-MM-DD | 2014-12-31 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - Half Hourly Outturn Generation By Fuel Type Data | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “HALF HOURLY OUTTURN GENERATION BY FUEL TYPE DATA” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record :** | | |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “FUELHH” |
| Settlement Date | Date | - | No | yyyy-mm-dd | 2014-12-12 |
| Settlement Period | Integer | - | No | - | 43 |
| Bidding Zone | String | - | No |  | FRANCE |
| Bidding Zone Total Generation | Integer | - | No |  | 12032 |
| CCGT | Integer | - | No | - | 12032 |
| OIL | Integer | - | No | - | 12032 |
| COAL | Integer | - | No | - | 12032 |
| NUCLEAR | Integer | - | No | - | 12032 |
| WIND | Integer | - | No | - | 12032 |
| PS | Integer | - | No | - | 12032 |
| NPSHYD | Integer | - | No | - | 12032 |
| OCGT | Integer | - | No | - | 12032 |
| OTHER | Integer | - | No | - | 12032 |
| INTFR | Integer | - | No | - | 12032 |
| INTIRL | Integer | - | No | - | 12032 |
| INTNED | Integer | - | No | - | 12032 |
| INTEW | Integer | - | No | - | 12032 |
| INTNEM | Integer | - | No | - | 12032 |
| BIOMASS | Integer | - | No | - | 12032 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service:** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | NO | - | Fixed string value “FUELHH” |
| Settlement Date | Date | - | NO | yyyymmdd | 20080428 |
| Settlement Period | Integer | - | NO | - | 43 |
| CCGT | Integer | - | NO | - | 12032 |
| OIL | Integer | - | NO | - | 12032 |
| COAL | Integer | - | NO | - | 12032 |
| NUCLEAR | Integer | - | NO | - | 12032 |
| WIND | Integer | - | NO | - | 12032 |
| PS | Integer | - | NO | - | 12032 |
| NPSHYD | Integer | - | NO | - | 12032 |
| OCGT | Integer | - | NO | - | 12032 |
| OTHER | Integer | - | NO | - | 12032 |
| INTFR | Integer | - | NO | - | 12032 |
| INTIRL | Integer | - | NO | - | 12032 |
| INTNED | Integer | - | NO | - | 12032 |
| INTEW | Integer | - | NO | - | 12032 |
| BIOMASS | Integer | - | NO | - | 12032 |
| INTNEM | Integer | - | NO | - | 12032 |

**NOTE :**

* **Also note that, even in cases where ‘From Date’ and ‘To Date’ are defined as optional with default values, either both should be absent or both have to be present.**
* **FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.**

**Example File:**

HDR, HALF HOURLY OUTTURN GENERATION BY FUEL TYPE DATA

FUELHH,20080428,1,18137,1850,0,15315,7308,189,15,15,0,55,152,12,16,280,16

FUELHH,20080428,2,18134,1849,0,15312,7307,181,16,14,0,52,150,22,16,300,16

FTR,2

### Half Hourly Interconnector Outturn Generation

API service details for the flow is as follows

|  |  |
| --- | --- |
| **Service Name** | halfHourlyInterConnectorOutturnGenerationService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/INTERFUELHH/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Date (Ascending), Settlement Period (Ascending) 2. Input data flow : FUELHH |
| **Comments** | 1. Default Value (if none specified): From Date= Current System date - 1 To Date= Current System Date |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request – HalfHourlyInterConnectorOutturnGeneration | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | csv/CSV/xml/XML |
| From Date | String | - | No | YYYY-MM-DD | 2014-12-31 |
| To Date | String | - | No | YYYY-MM-DD | 2014-12-31 |

|  |  |
| --- | --- |
| API Webservice – Response-HalfHourlyInterConnectorOutturnGeneration | |
| **Header Record :** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | HDR |
| File Type | HALF HOURLY INTERCONNECTOR OUTTURN GENERATION |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | INTOUTHH |
| Settlement Date | Date | - | No | yyyy-mm-dd | 2014-10-26 |
| Settlement Period | Integer | - | No | - | 1 |
| Bidding Zone | String | - | No |  | FRANCE |
| Bidding Zone Total Generation | Integer | - | No |  | 12032 |
| INTFR - External Interconnector flows with France | Integer | - | No | - | 1704 |
| INTIRL - External Interconnector flows with Ireland | Integer | - | No | - | 202 |
| INTNED - External Interconnector flows with the Netherlands | Integer | - | No | - | 852 |
| INTEW - External Interconnector flows with Ireland (East-West) | Integer | - | No | - | 278 |
| INTNEM – External Interconnector flows with Belgium (Nemo Link) | Integer | - | No | - | 278 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | INTOUTHH |
| Settlement Date | Date | - | No | yyyymmdd | 20141026 |
| Settlement Period | Integer | - | No | - | 1 |
| INTFR - External Interconnector flows with France | Integer | - | No | - | 1704 |
| INTIRL - External Interconnector flows with Ireland | Integer | - | No | - | 202 |
| INTNED - External Interconnector flows with the Netherlands | Integer | - | No | - | 852 |
| INTEW - External Interconnector flows with Ireland (East-West) | Integer | - | No | - | 278 |
| INTNEM – External Interconnector flows with Belgium (Nemo Link) | Integer | - | No | - | 278 |

**Example File**

HDR,HALF HOURLY INTERCONNECTOR OUTTURN GENERATION

INTOUTHH,20080428,1,55,152,23,32,32

INTOUTHH,20080428,2,52,150,22,21,21

FTR,2

**NOTE :**

* **Also note that, even in cases where ‘From Date’ and ‘To Date’ are defined as optional with default values, either both should be absent or both have to be present.**
* **FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.**

### National Output Useable (2-14 Days Ahead)

API service details for the flow is as follows

|  |  |
| --- | --- |
| **Service Name** | nationalOutputUsable2T14DaysAheadService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/NOU2T14D/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Settlement Date (Ascending) 2. Input data flow : NOU2T14D |
| **Comments** | Records are retrieved for date ranges between (Currentdate + 2 days) to (Currentdate + 14 days).  Note that in legacy (existing) BMRS this data is available in CSV or XML. The header and footer labels in the snapshot are for that. These are not explicitly listed for Restful API. |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request : National Output Usable Data for 2 to 14 days (NOU2T14D) | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | csv/CSV/xml/XML |

API Webservice – Response : National Output Usable Data for 2 to 14 days (NOU2T14D)

|  |  |
| --- | --- |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “NATIONAL OUTPUT USABLE MW BASED ON  OC2 (2-14 DAYS) DATA |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record:** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “NOU2T14D” |
| Publication Time | Date | - | No | Yyyy-mm-dd hh:mm:ss | 2014-11-03 14:45:00 |
| System Zone | String | - | No | - | N |
| Settlement Date | Date | - | No | Yyyy-mm-dd | 2014-07-27 |
| Output Usable | Integer | - | No | - | 10045 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download service** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “NOU2T14D” |
| Publication Time | Date | - | No | YyyymmddHHmmss | 20141103144500 |
| System Zone | String | - | No | - | N |
| Settlement Date | Date | - | No | yyyymmdd | 20140727 |
| Output Usable | Integer | - | No | - | 10045 |

**Example File:**

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-14 DAYS)DATA

NOU2T14D,20141031151700,N,20141106,63825

NOU2T14D,20141031151700,N,20141107,62977

FTR,

### National Output Useable by Fuel Type (2-14 Days Ahead)

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | nationalOutputUsableByFuelType2T14DaysService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/FOU2T14D/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Fuel Type (Ascending), Settlement Date (Ascending) 2. Input data flow : FOU2T14D |
| **Comments** | Records are retrieved for date ranges between (Currentdate + 2 days) to (Currentdate + 14 days) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - NationalOutputUsableByFuelType2T14DaysService | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - NationalOutputUsableByFuelType2T14DaysService | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-14 DAYS) DATA – BY FUEL TYPE” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | FOU2T14D |
| FuelType | String | - | No | - | COAL |
| Publication (Date)Time | Date | - | No | Yyyy-mm-dd hh:mm:ss | 2010-01-02 15:50:00 |
| System Zone | String | - | No | - | Must be 'N' |
| Bidding Zone | String | - | No | - | FRANCE |
| Settlement Date | Date | - | No | Yyyy-mm-dd | 2014-07-29 |
| Output Usable | Integer | - | No | - | 100 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | FOU2T14D |
| FuelType | String | - | No | - | COAL |
| Publication (Date)Time | Date | - | No | yyyymmddhhmmss | 20100102155000 |
| System Zone | String | - | No | - | Must be 'N' |
| Settlement Date | Date | - | No | yyyymmdd | 20140729 |
| Output Usable | Integer | - | No | - | 100 |

**Example File:**

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-14 DAYS)DATA – BY FUEL TYPE

FOU2T14D,CCGT,201001021550,N,20100204,1500

FOU2T14D,OIL,201001021550,N,20100204,1500

FOU2T14D,COAL,201001021550,N,20100204,1500

FOU2T14D,NUCLEAR,201001021550,N,20100204,1500

FOU2T14D,BIOMASS,201001021550,N,20171015,788

FTR,5

### National Output Useable by Fuel Type and BM Unit (2-14 Days Ahead)

API service details for the flow is as follows

|  |  |
| --- | --- |
| **Service Name** | nationalOutputUsableByBMUnitAndFuelType2T14DaysService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/UOU2T14D/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: BM Unit Id (Ascending),Fuel Type (Ascending) 2. Input data flow : UOU2T14D |
| **Comments** | Records are retrieved for date ranges between (Currentdate + 2 days) to (Currentdate + 14 days) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice - Request - NationalOutputUsableByBMUnitAndFuelType | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice - Response - NationalOutputUsableByBMUnitAndFuelType | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-14 DAYS) DATA – BY BM UNIT/INTERCONNECTOR & FUELTYPE” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record :** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | UOU2T14D |
| BM Unit ID | String | - | No | - | BMUNIT01 |
| FuelType | String | - | No | - | CCGT |
| Publication(Date) Time | Date | - | No | Yyyy-mm-dd hh:mm:ss | 2010-01-02 15:50:00 |
| System Zone | String | - | No | - | Must be 'N' |
| Bidding Zone | String | - | No | - | FRANCE |
| Settlement Date | Date | - | No | Yyyy-mm-dd | 2014-07-29 |
| Output Usable | Integer | - | No | - | 10000 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service :** | | |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | UOU2T14D |
| BM Unit ID | String | - | No | - | BMUNIT01 |
| FuelType | String | - | No | - | CCGT |
| Publication(Date) Time | Date | - | No | Yyyymmdd hhmmss | 20100102155000 |
| System Zone | String | - | No | - | Must be 'N' |
| Settlement Date | Date | - | No | Yyyymmdd | 20140729 |
| Output Usable | Integer | - | No | - | 10000 |

**Example File:**

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-14 DAYS)DATA – BY

BM UNIT/INTERCONNECTOR & FUEL TYPE

UOU2T14D,BMUNIT01,CCGT,201001021550,N,20100204,150

UOU2T14D,BMUNIT02,COAL, 201001021550,N,20100204,150

UOU2T14D,BMUNIT03,OIL, 201001021550,N,20100204,150

UOU2T14D,INTFR, INTFR, 201001021550,N,20100204,150

UOU2T14D,E\_BMU-01,BIOMASS,201001021550,N,20100204,150

FTR,4

### National Output Useable (2- 52 Weeks Ahead)

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | nationalOutputUsable2T52WeeksService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/NOU2T52W/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Calendar Year (Ascending), Calendar Week Number (Ascending) 2. Input data flow : NOU2T52W |
| **Comments** | Records are retrieved for date ranges between (Currentdate + 2 weeks) to (Currentdate + 52 weeks)  Note: The First day of week is considered as 'Monday'. |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - NationalOutputUsable2T52Weeks | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - NationalOutputUsable2T52Weeks | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-52 WEEKS)DATA” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | NOU2T52W |
| Publication Time | Date | - | No | Yyyy-mm-dd hh: mm:ss | 2014-07-08 10:59:00 |
| System Zone | String | - | No | - | N |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | YYYY | 2017 |
| Output Usable | Integer | - | No | - | 69163 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | NOU2T52W |
| Publication Time | Date | - | No | yyyymmddhhmmss | 20140708105900 |
| System Zone | String | - | No | - | N |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | YYYY | 2017 |
| Output Usable | Integer | - | No | - | 69163 |

**Example File:**

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-52 WEEKS)DATA

NOU2T52W,201004231113,N,18,2010,59588

NOU2T52W,201004231113,N,19,2010,60966

FTR,2

* + 1. National Output Useable by Fuel type (2-52 Weeks Ahead)

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | nationalOutputUsableByFuelType2T52WeeksService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/FOU2T52W/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Calendar Year (Ascending), Calendar Week (Ascending), Fuel Type (Ascending) 2. Input data flow : FOU2T52W |
| **Comments** | Records are retrieved for date ranges between (Currentdate + 2 weeks) to (Currentdate + 52 weeks).  The First day of week is considered as 'Monday'. |

**API Web service – Request and Response format details**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - National Output Usable Data for 2- 52 Weeks | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | csv/CSV/xml/XML |

|  |  |
| --- | --- |
| API Webservice – Response - National Output Usable Data for 2- 52 Weeks | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | HDR |
| File Type | NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-52 WEEKS) DATA –FUEL TYPE |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Records :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | FOU2T52W |
| Fuel Type | String | - | No | - | COAL |
| Publishing Time | Date | - | No | Yyyy-mm-dd hh:mm:ss | 2014-10-16 13:45:00 |
| System Zone | String | - | No | NA | Always ‘N’ |
| Bidding Zone | String | - | No | - | FRANCE |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | YYYY | 2017 |
| Output Usable | Integer | - | No | - | 100 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service:** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | FOU2T52W |
| Fuel Type | String | - | No | - | COAL |
| Publishing Time | Date | - | No | Yyyymmddhhmmss | 20141016134500 |
| System Zone | String | - | No | NA | N |
| Calendar Week Number | Integer | * + - 1. - | No | - | 1 |
| Calendar Year | Integer | - | No | YYYY | 2017 |
| Output Usable | Integer | - | No | - | 100 |

**Example File**

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-52 WEEKS)DATA –

BY FUEL TYPE

FOU2T52W,CCGT,201001021550,N,3,2010,1500

FOU2T52W,BIOMASS,201001021550,N,3,2010,1500

FTR,2

### National Output Useable by Fuel Type and BM Unit (2-52 Weeks Ahead)

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | nationalOutputUsableByFuelType&BMUnit2T52WeeksService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/UOU2T52W/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: BM Unit Id (Ascending),Fuel Type (Ascending), Calendar Year (Ascending), Calendar Week Number (Ascending) 2. Input data flow : UOU2T52W |
| **Comments** | Records are retrieved for date ranges between (Currentdate + 2 weeks) to (Currentdate + 52 weeks).  The First day of week is considered as 'Monday'. |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice - Request - NationalOutputUsableByFuelType&BMUnit2T52Weeks | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice - Response - NationalOutputUsableByFuelType&BMUnit2T52Weeks | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | HDR |
| File Type | NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-52 WEEKS) DATA – BY BM UNIT/INTERCONNECTOR & FUEL TYPE |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | UOU2T52W |
| BM Unit ID | String | - | No | - | BMUNIT01 |
| FuelType | String | - | No | - | COAL |
| Publishing Time | Date | - | No | Yyyy-mm-dd hh:mm:ss | 2010-01-02 15:50:00 |
| System Zone | String | - | No | - | Always ‘N’ |
| Bidding Zone | String | - | No | - | FRANCE |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | YYYY | 2017 |
| Output Usable | Integer | - | No | - | 100 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | UOU2T52W |
| BM Unit ID | String | - | No | - | BMUNIT01 |
| FuelType | String | - | No | - | COAL |
| Publishing Time | Date | - | No | yyyymmddhhmmss | 20100102155012 |
| System Zone | String | - | No | - | Always ‘N’ |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | YYYY | 2017 |
| Output Usable | Integer | - | No | - | 100 |

**Example File**

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-52 WEEKS)DATA –

BY BM UNIT/INTERCONNECTOR & FUEL TYPE

UOU2T52W,BMUNIT01,CCGT,201001021550,N,12,2010,1000

UOU2T52W,BMUNIT02,COAL,201001021550,N,12,2010,1000

UOU2T52W,BMUNIT03,BIOMASS,201001021550,N,12,2010,1000

UOU2T52W,INTFR,INTFR,201001021550,N,12,2010,2500

FTR,4

### National Output Useable Data (1 Year)

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | nationalOutputUsableDataforOneYearService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/NOUY1/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Calendar Week Number (Ascending) 2. Input data flow : NOUY1 |
| **Comments** | Records are retrieved for (systemyear + 1) ,if no data is available for (systemyear + 1) then records are retrieved for previous year(systemyear) . |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - National Output Usable Data for 1 Year | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - National Output Usable Data for 1 Year | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “NATIONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 1) DATA” |

**Body Record:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “NOUY1” |
| Publication Time | Date | - | No | Yyyy-mm-dd HH:mm:ss | 2014-07-08 10:59:00 |
| System Zone | String | - | No | N | N |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | YYYY | 2017 |
| Output Usable | Integer | - | No | - | 69163 |
| Active Flag | String | - | No | - | Y |

**CSV Download Service:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “NOUY1” |
| Publication Time | Date | - | No | yyyymmddhhMmss | 20140708105900 |
| System Zone | String | - | No | N | N |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | YYYY | 2017 |
| Output Usable | Integer | - | No | - | 69163 |

**Example File:**

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 1)DATA

NOUY1,201004231113,N,1,2011,75907

NOUY1,201004231113,N,2,2011,74731

FTR,2

### National Output Useable Data (2 Year)

An API service detail for the flow is as follows

|  |  |
| --- | --- |
| **Service Name** | nationalOutputUsableDataforTwoYearService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/NOUY2/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Calendar Week Number (Ascending) 2. Input data flow : NOUY2 |
| **Comments** | Records are retrieved for (systemyear + 2) ,if no data is available for (systemyear + 2) then records are retrieved for previous year(systemyear + 1) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - National Output Usable Data for 2 Year | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - National Output Usable Data for 2 Year | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “NATIONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 2) DATA” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “NOUY2” |
| Publication Time | Date | - | No | Yyyy-mm-dd HH:mm:ss | 2014-07-08 10:59:00 |
| System Zone | String | - | No | N | N |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | YYYY | 2017 |
| Output Usable | Integer | - | No | - | 69163 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “NOUY2” |
| Publication Time | Date | - | No | yyyymmddhhMMss | 20140708105900 |
| System Zone | String | - | No | N | N |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | YYYY | 2017 |
| Output Usable | Integer | - | No | - | 69163 |

**Example File:**

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 2)DATA

NOUY2,201004231113,N,1,2012,75907

NOUY2,201004231113,N,2,2012,74731

FTR,2

### National Output Useable Data (3 Year)

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | nationalOutputUsableDataforThreeYearService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/NOUY3/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Calendar Week Number (Ascending) 2. Input data flow : NOUY3 |
| **Comments** | Records are retrieved for (systemyear + 3) ,if no data is available for (systemyear + 3) then records are retrieved for previous year(systemyear + 2) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - National Output Usable Data for 3 Year | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - National Output Usable Data for 3 Year | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “NATIONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 3) DATA” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “NOUY3” |
| Publication Time | Date | - | No | Yyyy-mm-dd HH:mm:ss | 2014-07-08 10:59:00 |
| System Zone | String | - | No | N | N |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | YYYY | 2017 |
| Output Usable | Integer | - | No | - | 69163 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service:** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “NOUY3” |
| Publication Time | Date | - | No | yyyymmddhhMMss | 20140708105900 |
| System Zone | String | - | No | N | N |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | YYYY | 2017 |
| Output Usable | Integer | - | No | - | 69163 |

**Example File:**

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 3)DATA

NOUY3,201004231113,N,1,2013,75907

NOUY3,201004231113,N,2,2013,74731

FTR,2

### National Output Useable Data (4 Year)

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | nationalOutputUsableDataforFourYearService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/NOUY4/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Calendar Week Number (Ascending) 2. Input data flow : NOUY4 |
| **Comments** | Records are retrieved for (systemyear + 4) ,if no data is available for (systemyear + 4) then records are retrieved for previous year(systemyear + 3) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - National Output Usable Data for 4 Year | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - National Output Usable Data for 4 Year | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “NATIONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 4) DATA” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record :** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “NOUY4” |
| Publication Time | Date | - | No | Yyyy-mm-dd HH:mm:ss | 2014-07-08 10:59:00 |
| System Zone | String | - | No | N | N |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | YYYY | 2017 |
| Output Usable | Integer | - | No | - | 69163 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “NOUY4” |
| Publication Time | Date | - | No | yyymmddhhMMss | 20140708105900 |
| System Zone | String | - | No | N | N |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | YYYY | 2017 |
| Output Usable | Integer | - | No | - | 69163 |

**Example File:**

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 4)DATA

NOUY4,201004231113,N,1,2014,75907

NOUY4,201004231113,N,2,2014,74731

FTR,2

### National Output Useable Data (5 Year)

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | nationalOutputUsableDataforFiveYearService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/NOUY5/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Calendar Week Number (Ascending) 2. Input data flow : NOUY5 |
| **Comments** | Records are retrieved for (systemyear + 5) ,if no data is available for (systemyear + 5) then records are retrieved for previous year(systemyear + 4) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - National Output Usable Data for 5 Year | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | csv/xml/XML/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - National Output Usable Data for 5 Year | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “NATIONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 5) DATA” |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Body Record :** | | | | | | | | | | |
| **Logical Field Name** | **Field Type** | | **Remarks** | | | **Mandatory** | | **XML Format** | **Sample data** | |
| Record Type | String | | - | | | No | | - | Fixed string value “NOUY5” | |
| Publication Time | Date | | - | | | No | | Yyyy-mm-dd HH:mm:ss | 2014-07-08 10:59:00 | |
| System Zone | String | | - | | | No | | N | N | |
| Calendar Week Number | Integer | | - | | | No | | - | 1 | |
| Calendar Year | Integer | | - | | | No | | YYYY | 2017 | |
| Output Usable | Integer | | - | | | No | | - | 69163 | |
| Active Flag | String | | - | | | No | | - | Y | |
| **CSV Download Service :** | | | | | | | | | | |
| **Logical Field Name** | | **Field Type** | | **Remarks** | **Mandatory** | | **CSV Format** | | | **Sample data** |
| Record Type | | String | | - | No | | - | | | Fixed string value “NOUY5” |
| Publication Time | | Date | | - | No | | yyyymmddhhMMSS | | | 20140708105900 |
| System Zone | | String | | - | No | | N | | | N |
| Calendar Week Number | | Integer | | - | No | | - | | | 1 |
| Calendar Year | | Integer | | - | No | | YYYY | | | 2017 |
| Output Usable | | Integer | | - | No | | - | | | 69163 |

**Example File:**

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 5)DATA

NOUY5,201004231113,N,1,2015,75907

NOUY5,201004231113,N,2,2015,74731

FTR,2

### Zonal Output Useable (2- 14 Days Ahead)

API service details for the flow is as follows

|  |  |
| --- | --- |
| **Service Name** | zoneOutputUsable2T14DaysService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/ZOU2T14D/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Settlement Date (Ascending), System Zone (Ascending) 2. Input data flow : ZOU2T14D |
| **Comments** | Records are retrieved for date ranges between (Currentdate + 2 days) to (Currentdate + 14 days) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - ZoneOutputUsable2T14Days | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - ZoneOutputUsable2T14Days | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | HDR |
| File Type | SYSTEM ZONE OUTPUT USABLE MW BASED ON OC2 (2-14 DAYS) DATA |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Records :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | ZOU2T14D |
| Settlement Date | Date | - | No | YYYY-MM-DD | 2014-10-18 |
| Publishing Time | Date | - | No | Yyyy-mm-dd hh:mm:ss | 2010-01-02 15:50:00 |
| System Zone | String | - | No | B17 | B1 |
| Output Usable | Integer | - | No | - | 100 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download service :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | ZOU2T14D |
| Publishing Time | Date | - | No | yyyymmddhhmmss | 20100102155000 |
| System Zone | String | - | No | B1 to B17 | B1 |
| Settlement Date | Date | - | No | yyyymmdd | 20141018 |
| Output Usable | Integer | - | No | - | 100 |

**Example File**

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-14 DAYS)DATA

ZOU2T14D,201004231113,B1,20100423,13389

ZOU2T14D,201004231113,B2,20100423,13151

FTR,2

### Zonal Output Useable (2-52 Weeks Ahead)

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | zoneOutputUsable2T52WeeksService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/ZOU2T52W/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Calendar year (Ascending), : Calendar Weeks (Ascending), System Zone (Ascending) 2. Input data flow : ZOU2T52W |
| **Comments** | Records are retrieved for date ranges between (Currentdate + 2 weeks) to (Currentdate + 52 weeks).  The First day of week is considered as 'Monday'. |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request -ZoneOutputUsable2T14Days | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes |  | AP8DA23 |
| Service Type | String | - | No |  | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - ZoneOutputUsable2T14Days | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | HDR |
| File Type | SYSTEM ZONE OUTPUT USABLE MW BASED ON OC2 (2-52 WEEKS) DATA |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Records :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | ZOU2T52W |
| Publishing Period Date | Date | - | No | Yyyy-mm-dd hh:mm:ss | 2010-01-02 15:50:00 |
| System Zone | String | - | No | One of B1-B17 | B1 |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | - | 2015 |
| Output Usable | Integer | - | No |  | 100 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download service :** | | | | | |
| **Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | ZOU2T52W |
| Publishing Period Date | Date | - | No | yyyymmddhhmmss | 20100102155000 |
| System Zone | String | - | No | One of B1-B17 | B1 |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | - | 2015 |
| Output Usable | Integer | - | No |  | 100 |

**Example File:**

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-52 WEEKS)DATA

ZOU2T52W,201004231113,B1,18,2010,11083

ZOU2T52W,201004231113,B1,19,2010,11793

FTR,2

### Zonal Output Useable Data for 1 Year Ahead

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | zonalOutputUsableDataOneYearService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/ZOUY1/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Calendar Week Number (Ascending), Zone (Ascending) 2. Input data flow : ZOUY1 |
| **Comments** | Records are retrieved for (systemyear + 1) ,if no data is available for (systemyear + 1) then records are retrieved for previous year(systemyear) |

**API Web service – Request and Response format details**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - ZonalOutputUsableDataOneYearService | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | csv/CSV/xml/XML |

|  |  |
| --- | --- |
| API Webservice – Response - ZONAL OUTPUT USABLE DATA FOR 1 YEAR | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed String “SYSTEM ZONE OUTPUT USABLE MW BASED ON OC2 ( YEAR 1) DATA” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | ZOUY1 |
| Publication Time | Date | - | No | yyyy-mm-dd hh:  mm:ss | 2014-09-17 08:39:00 |
| System Zone | String | - | No | One of B1-B17 | B1 |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | - | 2011 |
| Output Usable | Integer | - | No | - | 14120 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download service** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | ZOUY1 |
| Publication Time | Date | - | No | yyyymmddhhmmss | 20141016134500 |
| System Zone | String | - | No | One of B1-B17 | B1 |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | - | 2011 |
| Output Usable | Integer | - | No | - | 14120 |

Example File

HDR,ZONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 1)DATA

ZOUY1,201004231113,B1,1,2011,14120

ZOUY1,201004231113,B1,2,2011,13390

FTR,2

### Zonal Output Useable Data for 2 Year Ahead

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | zonalOutputUsableDataTwoYearService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/ZOUY2/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Calendar Week Number (Ascending), Zone (Ascending) 2. Input data flow : ZOUY2 |
| **Comments** | Records are retrieved for (systemyear + 2) ,if no data is available for (systemyear + 2) then records are retrieved for previous year(systemyear + 1) |

**API Web service – Request and Response format details**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request – ZonalOutputUsableDataTwoYearService | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | csv/CSV/xml/XML |

API Webservice – Response - ZonalOutputUsableDataTwoYearService

**Header Record:**

|  |  |
| --- | --- |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed String “SYSTEM ZONE OUTPUT USABLE MW BASED ON OC2 (YEAR 2) DATA” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Records** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | ZOUY2 |
| Publication Time | Date | - | No | yyyy-mm-dd hh:  mm:ss | 2014-09-17 08:39:00 |
| System Zone | String | - | No | One of B1-B17 | B1 |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | - | 2011 |
| Output Usable | Integer | - | No | - | 14120 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download service** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | ZOUY2 |
| Publication Time | Date | - | No | yyyymmddhhmmss | 20141016134500 |
| System Zone | String | - | No | One of B1-B17 | B1 |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | - | 2011 |
| Output Usable | Integer | - | No | - | 14120 |

**Example File**

HDR, ZONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 2)DATA

ZOUY2,201004231113,B1,1,2012,14120

ZOUY2,201004231113,B1,2,2012,13390

FTR,2

### Zonal Output Useable Data for 3 Year Ahead

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | zonalOutputUsableDataThreeYearService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/ZOUY3/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Calendar Week Number (Ascending), Zone (Ascending) 2. Input data flow : ZOUY3 |
| **Comments** | Records are retrieved for (systemyear + 3) ,if no data is available for (systemyear + 3) then records are retrieved for previous year(systemyear + 2) |

**API Web service – Request and Response format details**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request – ZonalOutputUsableDataThreeYearService | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | csv/CSV/xml/XML |

API Webservice – Response - ZonalOutputUsableDataThreeYearService

**Header Record:**

|  |  |
| --- | --- |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed String “SYSTEM ZONE OUTPUT USABLE MW BASED ON OC2 (YEAR 3) DATA” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Records :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | ZOUY3 |
| Publication Time | Date | - | No | yyyy-mm-dd hh:  mm:ss | 2014-09-17 08:39:00 |
| System Zone | String | - | No | One of B1-B17 | B1 |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | - | 2011 |
| Output Usable | Integer | - | No | - | 14120 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download service** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | ZOUY3 |
| Publication Time | Date | - | No | yyyymmddhhmmss | 20141016134500 |
| System Zone | String | - | No | One of B1-B17 | B1 |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | - | 2011 |
| Output Usable | Integer | - | No | - | 14120 |

**Example File**

HDR, ZONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 3)DATA

ZOUY3,201004231113,B1,1,2013,14120

ZOUY3,201004231113,B1,2,2013,13390

FTR,2

### Zonal Output Useable Data for 4 Year Ahead

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | zonalOutputUsableDataFourYearService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/ZOUY4/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Calendar Week Number (Ascending), Zone (Ascending) 2. Input data flow : ZOUY4 |
| **Comments** | Records are retrieved for (systemyear + 4) ,if no data is available for (systemyear + 4) then records are retrieved for previous year(systemyear + 3) |

**API Web service – Request and Response format details**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request – ZonalOutputUsableDataFourYearService | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | csv/CSV/xml/XML |

API Webservice – Response - ZonalOutputUsableDataFourYearService

**Header Record:**

|  |  |
| --- | --- |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed String “SYSTEM ZONE OUTPUT USABLE MW BASED ON OC2 (YEAR 4) DATA” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Records :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | ZOUY4 |
| Publication Time | Date | - | No | yyyy-mm-dd hh:  mm:ss | 2014-09-17 08:39:00 |
| System Zone | String | - | No | One of B1-B17 | B1 |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | - | 2011 |
| Output Usable | Integer | - | No | - | 14120 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | ZOUY4 |
| Publication Time | Date | - | No | yYYymmddhhmmss | 20141016134500 |
| System Zone | String | - | No | One of B1-B17 | B1 |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | - | 2011 |
| Output Usable | Integer | - | No | - | 14120 |

**Example File**

HDR, ZONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 4)DATA

ZOUY4,201004231113,B1,1,2014,14120

ZOUY4,201004231113,B1,2,2014,13390

FTR,2

### Zonal Output Useable Data for 5 Year Ahead

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | zonalOutputUsableDataFiveYearService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/ZOUY5/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Calendar Week Number (Ascending), Zone (Ascending) 2. Input data flow : ZOUY5 |
| **Comments** | Records are retrieved for (systemyear + 5) ,if no data is available for (systemyear + 5) then records are retrieved for previous year(systemyear + 4) |

**API Web service – Request and Response format details**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request – ZonalOutputUsableDataFiveYearService | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | csv/CSV/xml/XML |

API Webservice – Response - ZonalOutputUsableDataFiveYearService

**Header Record:**

|  |  |
| --- | --- |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed String “SYSTEM ZONE OUTPUT USABLE MW BASED ON OC2 (YEAR 5) DATA” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Records :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | ZOUY5 |
| Publication Time | Date | - | No | yyyy-mm-dd hh:  mm:ss | 2014-09-17 08:39:00 |
| System Zone | String | - | No | One of B1-B17 | B1 |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | - | 2011 |
| Output Usable | Integer | - | No | - | 14120 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service:** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | ZOUY5 |
| Publication Time | Date | - | No | yyyymmddhhmmss | 20141016134500 |
| System Zone | String | - | No | One of B1-B17 | B1 |
| Calendar Week Number | Integer | - | No | - | 1 |
| Calendar Year | Integer | - | No | - | 2011 |
| Output Usable | Integer | - | No | - | 14120 |

**Example File**

HDR, ZONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 5)DATA

ZOUY5,201004231113,B1,1,2015,14120

ZOUY5,201004231113,B1,2,2015,13390

FTR,2

### Initial Demand Outturn

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | initialDemandOutturnService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/INDOITSDO/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending) 2. Input data flow: INDO, ITSDO. |
| **Comments** | 1. Default Value (if none specified): From Date= Current System date - 1 To Date= Current System Date |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request – InitialDemandOutturn | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| From Date | String | - | No | YYYY-MM-DD | 2014-12-31 |
| To Date | String | - | No | YYYY-MM-DD | 2014-12-31 |
| Service Type | String | - | No | - | csv/CSV/xml/XML |

|  |  |
| --- | --- |
| API Webservice – Response-InitialDemandOutturn | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | HDR |
| File Type | INITIAL DEMAND OUTTURN |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body record :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Settlement Date | Date | - | No | yyyy-mm-dd | 2014-10-26 |
| Settlement Period | Integer | - | No | - | 1 |
| SystemZone | String | - | No | - | N |
| Record Type | String | - | No | - | INDO |
| Publish Time | Date | - | No | yyyy-mm-dd hh:mm:ss | 2014-10-25 23:30:00 |
| Demand | Integer | - | No | - | 23039 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | INDO/ITSDO |
| Settlement Date | Date | - | No | yyyymmdd | 20141026 |
| Settlement Period | Integer | - | No | - | 1 |
| SystemZone | String | - | No | - | N |
| Publish Time | Date | - | No | yyyymmddhhmmsS | 20141025233000 |
| Demand | Integer | - | No | - | 23039 |

**NOTE :**

* **Also note that, even in cases where ‘From Date’ and ‘To Date’ are defined as optional with default values, either both should be absent or both have to be present.**
* **FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.**

**Example File**

HDR,INITIAL DEMAND OUTTURN

INDO,20141109,1,N,20141109003000,27901

INDO,20141109,2,N,20141109010000,27745

INDO,20141109,3,N,20141109013000,27168

FTR,3

### Forecast Day and Day Ahead Margin and Imbalance Data

API service details for the flow is as follows

|  |  |
| --- | --- |
| **Service Name** | forecastDayAndDayAheadMarginAndImbalanceService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/MELIMBALNGC/<VersionNo>?APIKey=<APIKey>&ZoneIdentifier=<ZoneIdentifier>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending) 2. Input data flow : IMBALNGC, MELNGC |
| **Comments** | 1. Default Values (if none specified): Zone Identifier = N, From Date = Current System Date, To Date = Current System Date + 2 |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request – ForecastDayAndDayAheadMarginAndImbalance | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Zone Identifier | String | - | No | - | Default data N |
| From Date | String | - | No | YYYY-MM-DD | 2014-08-11 |
| To Date | String | - | No | YYYY-MM-DD | 2014-08-12 |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - ForecastDayAndDayAheadMarginAndImbalance | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “FORECAST DAY AND DAY AHEAD MARGIN AND IMBALANCE DATA” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Zone ID | String | - | No | - | B1 to B14 |
| Settlement Date | Date | - | No | - | 2014-08-11 |
| Settlement Period | Integer | - | No | - | 1 to 50 |
| Record Type | String | - | No | - | Fixed string value -“DAM” or “DAI” |
| Publish Time | Date | - | No | Yyyy-mm-dd hh:MM:ss | 2014-08-10 14:22:00 |
| Margin/ImbalanceValue | Integer | Margin value or Imbalance Value will be present for corresponding record type. | No | - | 26223 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service:** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Zone ID | String | - | No | - | B1 to B14 |
| Settlement Date | Date | - | No | - | 20140811 |
| Settlement Period | Integer | - | No | - | 1 to 50 |
| Record Type | String | - | No | - | Fixed string value -“DAM” or “DAI” |
| Publish Time | Date | - | No | Yyyymmdd hhMMss | 20140810142200 |
| Margin/ ImbalanceValue | Integer | Margin value or Imbalance Value will be present for corresponding record type. | No | - | 26223 |

**NOTE :**

* **Also note that, even in cases where ‘From Date’ and ‘To Date’ are defined as optional with default values, either both should be absent or both have to be present.**
* **FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.**

**Example File:**

HDR,FORECAST DAY AND DAY AHEAD MARGIN AND IMBALANCE DATA

DAM,20001017,1,B1,20001016220000,2623

DAM,20001017,2,B1,20001016220000,2574

DAI,20001017,1,B1,20001016220000,2602

DAI,20001017,2,B1,20001016220000,2556

FTR,4

### Forecast Day and Day Ahead Demand Data

API service details for the flow is as follows

|  |  |
| --- | --- |
| **Service Name** | forecastDayAndDayAheadDemandDataService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/FORDAYDEM/<VersionNo>?APIKey=<APIKey>&ZoneIdentifier=<ZoneIdentifier>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Settlement Date (Ascending),Settlement Period (Ascending) 2. Input data flow : NDF, TSDF, INDDEM, INDGEN |
| **Comments** | 1. Default Value (if none specified): Zone Identifier = N, From Date = Current system Date ,To Date = Current System Date + 2 |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - Forecast day and day ahead demand data | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| Zone Identifier | String | - | No | - | Default Zone Identifier = N |
| From Date | String | - | No | YYYY-MM-DD | 2014-08-11 |
| To Date | String | - | No | YYYY-MM-DD | 2014-08-12 |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | csv/CSV/XML/xml |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| API Webservice – Response - Forecast day and day ahead demand data | | | | | | |
| **Header Record:** | | | | | | |
| **Report Output Field Mapping** | | **Condition** | | | | |
| Record Type | | Fixed string value “HDR” | | | | |
| File Type | | Fixed string value “FORECAST DAY AND DAY AHEAD DEMAND  DATA” | | | | |
| **Body Record** | | | | | | |
| **Logical Field Name** | **Field Type** | | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Zone (Boundary ID) | String | | - | No | Always N | N |
| Settlement Date | Date | | - | No | yyyy-mm-dd | 2000-10-10 |
| Settlement Period (S/P) | Integer | | - | No | - | 10 |
| Record Type | String | | - | No | - | DANF |
| Publish Time | Date | | - | No | yyyy-mm-dd hh:mm:ss | 2000-10-16 22:00:00 |
| Demand/SPNDemand/SPNGeneration | Integer | | - | No | - | 9861 |
| Active Flag | String | | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV download Service :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | DANF |
| Settlement Date | Date | - | No | yyyymmdd | 20141010 |
| Settlement Period (S/P) | Integer | - | No | - | 10 |
| Zone (Boundary ID) | String | - | No | Always N | N |
| Publish Time | Date | - | No | yyyymmddhhmmss | 20001016220000 |
| Demand/SPNDemand/SPNGeneration | Integer | - | No | - | 9861 |

**Example File:**

HDR,FORECAST DAY AND DAY AHEAD DEMAND DATA

DANF,20001017,1,N,20001016220000,9861

DANF,20001017,2,N,20001016220000,8783

DATF,20001017,1,N,20001016220000,9661

DATF,20001017,2,N,20001016220000,8583

DAID,20001017,1,N,20001016220000,9560

DAID,20001017,2,N,20001016220000,8484

DAIG,20001017,1,N,20001016220000,9699

DAIG,20001017,2,N,20001016220000,8612

FTR,8

### Demand & Surplus Forecast Data (2-14 Days Ahead)

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | demandAndSurplusForecastData2T14DaysService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/DEMMF2T14D/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending) 2. Input data flow : NDFD, TSDFD, OCNMFD, OCNMFD2. |
| **Comments** | Records are retrieved for date ranges between (Currentdate + 2 days) to (Currentdate + 14 days) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request -DemandAndSurplusForecastData2T14Days | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | csv/CSV/xml/XML |

|  |  |
| --- | --- |
| API Webservice – Response- DemandAndSurplusForecastData2T14Days | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | HDR |
| File Type | FORECAST 2 TO 14 DAYS AHEAD DEMAND AND MARGIN DATA |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record:** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Settlement Date | Date | - | No | yyyy-mm-dd | 2014-10-29 |
| Settlement Period | Integer | - | No | - | 1 |
| Boundary ID | String | - | No | - | Always is “N” |
| Record Type | String | - | No | - | DSN (for NDFD)or DST (for TSDFD)or DSM (for OCNMFD)or OCNMFD2 (for OCNMFD2) |
| Publication Time | Date | - | No | yyyy-mm-dd hh:mm:ss | 2014-10-26 14:45:00 |
| demand/margin | Integer | If Record Type is DSN,DST we will have demand value, or DSM,OCNMFD2 we will have margin value | No | - | 45300 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download Service:** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Settlement Date | Date | - | No | yyyymmdd | 20141029 |
| Settlement Period | Integer | - | No | - | 1 |
| Boundary ID | String | - | No | - | Always is “N” |
| Record Type | String |  | No | - | DSN (for NDFD)or DST (for TSDFD)or DSM (for OCNMFD)or OCNMFD2 (for OCNMFD2) |
| Publication Time | Date | - | No | yyyymmddhhmmss | 20141026144500 |
| demand/margin | Integer | If Record Type is DSN,DST we will have demand value, or DSM,OCNMFD2 we will have margin value | No |  | 45300 |

**Example File**

HDR,FORECAST 2 TO 14 DAYS AHEAD DEMAND AND MARGIN DATA

DSN,20001019,9,N,20001016150000,41000

DSN,20001020,11,N,20001016150000,42000

OCNMFD2,20001010,9,N,20001016150000,17330

OCNMFD2,20001010,11,N,20001016150000,14288

FTR,4

### Demand & Surplus Forecast Data (2-52 Weeks Ahead)

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | demandAndSurplusForecastData2T52WeeksService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/DEMMF2T52W/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Record Type, 2. Week Number - Records ordered incrementing by this field (wraps from 53 to 1when new year starts)Input data flow: NDFW, TSDFW, OCNMFW, and OCNMFW2. |
| **Comments** | Records are retrieved for date ranges between (Currentdate + 2 weeks) to (Currentdate + 52 weeks).  The First day of week is considered as 'Monday'. |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request DemandAndSurplusForecastData2T52Weeks | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | csv/CSV/xml/XML |

|  |  |
| --- | --- |
| API Webservice – Response -DemandAndSurplusForecastData2T52Weeks | |
| **Header Record** | |
| **Report Output Field Mapping** | **Condition** | |
| Record Type | Fixed string value “HDR” | |
| File Type | Fixed string value “FORECAST 2 TO 52 WEEKS AHEAD DEMAND AND MARGIN DATA” | |

**Body Record:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample values** |
| Week Number | Integer | - | No | - | 46 |
| Boundary ID | String | - | No | - | Always is “N” |
| Record Type | String | - | No | - | “WN”(for NDFW) or “WT” (for TSDFW) or “WM” (for OCNMFW) or “OCNMFW2” (for OCNMFW2) |
| Publication Time | Date | - | No | Yyyy-mm-dd hh:mm:ss | 2014-10-16 13:45:00 |
| demand/margin | Integer | Depending upon Record type If it is WN,WT we will get Demand value else if it is WM,OCNMFW2 we will get Margin value. | No | - | 49500 |
| Active Flag | String | - | No | - | Y |

**CSV Download service**

| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample values** |
| --- | --- | --- | --- | --- | --- |
| Week Number | Integer | - | No | - | 46 |
| Boundary ID | String | - |  | - | Always is “N” |
| Record Type | String | - | No | - | “WN”(for NDFW) or “WT” (for TSDFW) or “WM” (for OCNMFW) or “OCNMFW2” (for OCNMFW2) |
| Publication Time | Date | - | No | yyyymmddhhmmss | 20141016134500 |
| demand/margin | Integer | Depending upon Record type If it is WN,WT we will get Demand value else if it is WM,OCNMFW2 we will get Margin value. | No | - | 49500 |

**Example File**

HDR,FORECAST 2 TO 52 WEEKS AHEAD DEMAND AND MARGIN DATA

WN,44,N,20001013170000,36000

WN,45,N,20001013170000,37000

OCNMFW2,44,N,20001013170000,17830

OCNMFW2,45,N,20001013170000,18610

FTR,4

### SO-SO Prices (SO-SO)

API service details for the flow is as follows

|  |  |
| --- | --- |
| **Service Name** | sosoPricesService |
| **Operation Name** | sosoPricesImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/SOSOP/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&StartTime=<StartTime>&TradeType=<TradeType>&IsTwoDayWindow=<IsTwoDayWindow>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Start Time (Ascending) 2. Input data flow : SOSO   For other common description refer section 3.2 |
| **Comments** | Default Value (if none specified): Settlement Date = Current System Date , Start Time = \*, Trade Type = ALL, isTwoDayWindow=false |

**API Web service – Request and Response format details**:

|  |
| --- |
| API Webservice – Request - SO-SO Prices (SO-SO) |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | csv/CSV/xml/XML |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-12-31 |
| Start time | String | - | No | HH:MM | - |
| Trade Type | String | - | No | - | ALL, BALIT\_NG, BALIT\_RTE, BritNed\_NG, BritNed\_TN, EWIC\_EG, EWIC\_NG, MOYLE\_NG, MOYLE\_SN |
| isTwoDayWindow | String | - | No | - | false |

API Webservice – Response – SO-SO Prices (SO-SO)

**Header Record:**

|  |  |
| --- | --- |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed String value “SO-SO PRICES” |

**Body Record:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample values** |
| Record Type | String | - | No | - | SOSO |
| Trade Type | String | - | No | - | BALIT\_NG |
| Start Time | Date | - | No | hh:mm:ss | 23:00:00 |
| Date | Date | - | No | yyyy-mm-dd | 2014-09-08 |
| Trade Direction | String | - | No | A01, A02 | A01 |
| Contract Identification | String | - | No | - | NG\_20140908\_2300\_20 |
| Trade Quantity | Integer | - | No | MW | 55 |
| Trade Price | Double | - | No | Currency/MWh | 57.07 |
| Active Flag | String | - | No | - | Y |

**CSV Download service**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample values** |
| Record Type | String | - | No | - | SOSO |
| Trade Type | String | - | No | - | BALIT\_NG |
| Start Time | Date | - | No | yyyymmddhhmmss | 20100422170000 |
| Trade Direction | String | - | No | A01, A02 | A01 |
| Contract Identification | String | - | No | - | NG\_20140908\_2300\_20 |
| Trade Quantity | Integer | - | No | MW | 55 |
| Trade Price | Double | - | No | Currency/MWh | 57.07 |

**Example File**

HDR,SO-SO PRICES

SOSO,BALIT\_NG,20100422170000,A01,RTE\_20101225\_1000\_3,12584,24.25

SOSO,BALIT\_NG,20100422180000,A02,RTE\_20101225\_1000\_27,10524,30.16

FTR,2

Note: If “isTwoDayWindow” input parameter values is “true” then fetching yesterday and today’s data if it is “false” then fetching only today’s data.

### SO SO Trades

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | sosoTradesService |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/SOSOT/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: Warning Date/Time (Ascending) 2. Input data flow : SYS\_WARN |
| **Comments** | - |

**API Web service – Request and Response format details**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request - SO-SO Trades | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | csv/CSV/xml/XML |

API Webservice – Response – SO-SO Trades

**Header Record:**

|  |  |
| --- | --- |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed String value “SO-SO TRADES” |

**Body Record:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample values** |
| RecordType | String | - | No | - | SOSOT |
| Warning Date/Time | Date | - | No | yyyy-mm-dd hh:mm | 2014-12-31 13:31 |
| Message Text | String | - | No | - | National Grid Notification |
| Active Flag | String | - | No | - | Y |

**CSV Download service**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample values** |
| RecordType | String | - | No | - | SOSOT |
| Warning Date/Time | Date | - | No | yyyymmddhhmm | 201412311331 |
| Message Text | String | - | No | - | National Grid Notification |

### Peak Demand – Yesterday/Today/Tomorrow

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | peakDemandService |
| **Operation Name** | peakDemandImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/PKDEMYESTTDYTOM/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | Default Sorting: Date (Ascending)  Input data flow : TSDF , ITSDO  For other common description refer section 2.3 |
| **Comments** | - |

**API Web service – Request and Response format details:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| API Webservice – Request - Peak Demand | | | | |
| **Logical Field Name** | **Field Type** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | Yes | - | AP8DA23 |
| Service Type | String | No | - | csv/CSV/xml/XML |

|  |  |
| --- | --- |
| API Webservice – Response - Peak Demand | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “PEAK DEMAND DATA – YESTERDAY, TODAY, TOMORROW” |
| **Body Record:** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample values** |
| Record Type | String | - | No | PKDEM | Fixed string value “PKDEM” |
| Date | Date | - | No | YYYY-MM-DD | 2014-10-13 |
| Forecast Demand Peak (MW) | Integer | - | No | - | 154236 |
| Forecast Peak Demand Time (local time) | Date | - | No | HH:mm | 10:10 |
| Actual Demand Peak (MW) | Integer | - | No | - | 154236 |
| Actual Peak Demand Time (local time) | Date | - | No | HH:mm | 10:10 |
| Last Updated (GMT time of Forecast, or Actual if Actual showing) | Date | - | No | YYYY-MM-DD HH:mm | 2014-10-10 11:10 |
| Active Flag | String | - | No | - | Y |

**CSV Download service**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample values** |
| Record Type | String | - | No | PKDEM | Fixed string value “PKDEM” |
| Date | Date | - | No | YYYYMMDD | 20141013 |
| Forecast Demand Peak (MW) | Integer | - | No | - | 154236 |
| Forecast Peak Demand Time (local time) | Date | - | No | HHmm | 10:10 |
| Actual Demand Peak (MW) | Integer | - | No | - | 154236 |
| Actual Peak Demand Time (local time) | Date | - | No | HHmm | 10:10 |
| Last Updated (GMT time of Forecast, or Actual if Actual showing) | Date | - | No | YYYYMMDDHHmm | 201410101110 |
| Active Flag | String | - | No | - | Y |

### Indicative Peak Demand Information (Using Operational Metering Data)

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | indicativePeakDemandInformationService |
| **Operation Name** | indicativePeakDemandInformationImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/INDPKDEMINFO/<VersionNo>?APIKey=<APIKey> &ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | Default Sorting:   Data Set 1 : Date (Ascending)  Data Set 2: Week Number (Ascending)  Input data flow : ITSDO,TSDFW |
| **Source** | MySQL |
| **Comments** | - |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request – Indicative Peak Demand Information (Using Operational Metering Data) | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - Indicative Peak Demand Information (Using Operational Metering Data) | |
| **Header Record** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “INDICATIVE PEAK DEMAND INFORMATION (USING OPERATIONAL METERING DATA)” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record : Data Set 1** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “3HIGHDEMSOFAR” |
| Date | Date | - | No | YYYY-MM-DD | 2014-10-10 |
| GB Demand (MW) | Integer | - | No | - | 12888 |
| Time of peak | Date | - | No | HH:MM | 14:00 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record : Data Set 2** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “3HIGHFORDEM” |
| Week Number | Integer | - | No | - | 5 |
| GB Demand (MW) | Integer | - | No | - | 12866 |
| Active Flag | String | - | No | - | Y |

**CSV Download service**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Data Set 1** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “3HIGHDEMSOFAR” |
| Date | Date | - | No | YYYYMMDD | 20141010 |
| GB Demand (MW) | Integer | - | No | - | 12888 |
| Time of peak | Date | - | No | HHMM | 1400 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Data Set 2** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “3HIGHFORDEM” |
| Week Number | Integer | - | No | - | 5 |
| GB Demand (MW) | Integer | - | No | - | 12866 |
| Active Flag | String | - | No | - | Y |

### System Demand

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | systemDemandService |
| **Operation Name** | systemDemandImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/SYSDEM/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | Default Sorting: Settlement Date (Ascending),Settlement Period (Ascending)  Input data flow : ITSDO,TSDF  For other common description refer section 2.3 |
| **Source** | MySQL |
| **Comments** | Default Value (if none specified): From Date = Current System Date - 1  To Date = Current System Date +1 |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request –System Demand | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| From Date | String | - | No | YYYY-MM-DD | 2014-12-31 |
| To Date | String | - | No | YYYY-MM-DD | 2014-12-31 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response – System Demand | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “SYSTEM DEMAND” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record:** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Settlement Date | Date | - | No | Yyyy-mm-dd | 2014-07-29 |
| Settlement Period | Integer | - | No | - | 25 |
| Record Type | String | - | No | - | Fixed string value “ITSDO” |
| GB Demand (MW) | Integer | - | No | - | 14565 |
| Record Type | String | - | No | - | Fixed string value “TSDF” |
| GB Demand (MW) | Integer | - | No | - | 35469 |
| Active Flag | String | - | No | - | Y |

**CSV Download service**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Settlement Date | Date | - | No | Yyyymmdd | 20140729 |
| Settlement Period | Integer | - | No | - | 25 |
| Record Type | String | - | No | - | Fixed string value “ITSDO” |
| GB Demand (MW) | Integer | - | No | - | 14565 |
| Record Type | String | - | No | - | Fixed string value “TSDF” |
| GB Demand (MW) | Integer | - | No | - | 35469 |
| Active Flag | String | - | No | - | Y |

**NOTE :**

* **Also note that, even in cases where ‘From Date’ and ‘To Date’ are defined as optional with default values, either both should be absent or both have to be present.**
* **FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.**

### Indicative Triad Demand Information (Using Settlement Metering Data)

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | indicativeTriadDemandInfoService |
| **Operation Name** | indicativeTriadDemandInfoImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/INDTRIADDEMINFO/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | Default Sorting: Date (Ascending)  Input data flow : NA  For other common description refer section 2.3 |
| **Comments** | Note that there may not always be sufficient temporal separation to provide 3 peaks in which case it is shown as NULL |

**API Web service – Request and Response format details:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| API Webservice – Request - Peak Demand | | | | |
| **Logical Field Name** | **Field Type** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | Yes | - | AP8DA23 |
| Service Type | String | No | - | csv/CSV/xml/XML |

|  |  |
| --- | --- |
| API Webservice – Response - Peak Demand | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “INDICATIVE TRIAD DEMAND INFORMATION (USING SETTLEMENT METERING DATA)” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record:** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “TRIADSETTDATA” |
| Date | Date | - | No | Yyyy-mm-dd | 2014-07-29 |
| GB Demand (MW) | Integer | - | No | - | 14565 |
| Time Of Peak | String | - | No | - | Fixed string value “TSDF” |
| Data Last Updated | Date | - | No | YYYY-MM-DD HH:mm | 2014-07-29 14:10 |
| Active Flag | String | - | No | - | Y |

**CSV Download service**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “TRIADSETTDATA” |
| Date | Date | - | No | Yyyymmdd | 20140729 |
| GB Demand (MW) | Integer | - | No | - | 14565 |
| Time Of Peak | String | - | No | - | Fixed string value “TSDF” |
| Data Last Updated | Date | - | No | YYYYMMDDHHmm | 201407291410 |
| Active Flag | String | - | No | - | Y |

### Physical Data

API service details for the flow is as follows

|  |  |
| --- | --- |
| **Service Name** | physicalBMDataService |
| **Operation Name** | physicalBMDataImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/PHYBMDATA/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&BMUnitId=<BMUnitId>&BMUnitType=<BMUnitType>&LeadPartyName=<LeadPartyName>&NGCBMUnitName=<NGCBMUnitName>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | 1. Default Sorting: BM Unit Id (Ascending), Settlement Period (Ascending ) (From Body) , Bid Offer Acceptance ID (Ascending) (applicable only for BOALF body), From Time (Ascending) 2. Input data flow: FPN, QPN, MELS, MILS, BOALF. |
| **Comments** | Default Value (if none specified): Settlement Date = {as per NRT criteria}, Settlement Period = {as per NRT criteria},BM Unit Id = \*, BM Unit Type = \*, Lead Party Name = \*, NGC BM Unit Name = \* (\* implies all values) |

**API Web service – Request and Response format details:**

API Webservice – Request – Physical BM Data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | String | - | No | 1 to 50 or \* | 12 |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Service Type | String | - | No | - | csv/xml/CSV/XML |

|  |  |
| --- | --- |
| API Webservice – Response – Physical BM Data | |
| **Header Record:** |  |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “PHYSICAL BM DATA” |
| Settlement Date | From input parameter |
| Settlement Period | From input parameter |

**Body Records:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **FPN Data :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | “PN” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| From Time | Date | - | No | yyyy-mm-dd hh:mm:ss | 2000-10-16 17:30:00 |
| From Level | Double | - | No | - | 0.000 |
| To Time | Date | - | No | yyyy-mm-dd hh:mm:ss | 2000-10-16 17:30:00 |
| To Level | Double | - | No | - | 0.000 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **QPN Data :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | “QPN” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| From Time | Date | - | No | yyyy-mm-dd hh:mm:ss | 2000-10-16 17:30:00 |
| From Level | Double | - | No | - | 0.000 |
| To Time | Date | - | No | yyyy-mm-dd hh:mm:ss | 2000-10-16 17:30:00 |
| To Level | Double | - | No | - | 0.000 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **MEL Data :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | “MEL” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| From Time | Date | - | No | yyyy-mm-dd hh:mm:ss | 2000-10-16 17:30:00 |
| From Level | Double | - | No | - | 0.000 |
| To Time | Date | - | No | yyyy-mm-dd hh:mm:ss | 2000-10-16 17:30:00 |
| To Level | Double | - | No | - | 0.000 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **MIL Data :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | “MIL” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| From Time | Date | - | No | yyyy-mm-dd hh:mm:ss | 2000-10-16 17:30:00 |
| From Level | Double | - | No | - | 0.000 |
| To Time | Date | - | No | yyyy-mm-dd hh:mm:ss | 2000-10-16 17:30:00 |
| To Level | Double | - | No | - | 0.000 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **BOALF Data :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | “BOALF” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Bid Offer Acceptance ID | Integer | - | No | - | 2564812568 |
| Acceptance Time | Date | - | No | - | 2000-10-16 17:30:00 |
| Deemed Flag | String | - | No | - | N |
| SO-Flag | String | - | No | - | F |
| STOR Provider Flag | String | - | No | - |  |
| RR Instruction Flag | String | - | No | - | F |
| RR Schedule Flag | String | - | No | - | F |
| From Time | Date | - | No | yyyy-mm-dd hh:mm:ss | 2000-10-16 17:30:00 |
| From Level | Double | - | No | - | 0.000 |
| To Time | Date | - | No | yyyy-mm-dd hh:mm:ss | 2000-10-16 17:30:00 |
| To Level | Double | - | No | - | 0.000 |
| Active Flag | String | - | No | - | Y |

**CSV Download service**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **FPN Data :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | “PN” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| From Time | Date | - | No | yyyymmddhhmmss | 20001016173000 |
| From Level | Double | - | No | - | 0.000 |
| To Time | Date | - | No | yyyymmddhhmmss | 20001016173000 |
| To Level | Double | - | No | - | 0.000 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **QPN data :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | “QPN” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| From Time | Date | - | No | yyyymmddhhmmss | 20001016173000 |
| From Level | Double | - | No | - | 0.000 |
| To Time | Date | - | No | yyyymmddhhmmss | 20001016173000 |
| To Level | Double | - | No | - | 0.000 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **MEL Data :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | “MEL” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| From Time | Date | - | No | yyyymmddhhmmss | 20001016173000 |
| From Level | Double | - | No | - | 0.000 |
| To Time | Date | - | No | yyyymmddhhmmss | 20001016173000 |
| To Level | Double | - | No | - | 0.000 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **MIL Data :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | “MIL” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| From Time | Date | - | No | yyyymmddhhmmss | 20001016173000 |
| From Level | Double | - | No | - | 0.000 |
| To Time | Date | - | No | yyyymmddhhmmss | 20001016173000 |
| To Level | Double | - | No | - | 0.000 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **BOALF Data :** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | “BOALF” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Bid Offer Acceptance ID | Integer | - | No | - | 2564812568 |
| Acceptance Time | Date | - | No | YYYYMMDDHHMMSS | 20001016173000 |
| Deemed Flag | String | - | No | - | N |
| SO-Flag | String | - | No | - | F |
| STOR Provider Flag | String | - | No | - |  |
| RR Instruction Flag | String | - | No | - | F |
| RR Schedule Flag | String | - | No | - | F |
| From Time | Date | - | No | yyyymmddhhmmss | 20001016173000 |
| From Level | Double | - | No | - | 0.000 |
| To Time | Date | - | No | yyyymmddhhmmss | 20001016173000 |
| To Level | Double | - | No | - | 0.000 |

### Dynamic Data

API service details for the flow is as follows

|  |  |
| --- | --- |
| **Service Name** | dynamicDataService |
| **Operation Name** | dynamicDataImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/DYNBMDATA/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&BMUnitId=<BMUnitId>&BMUnitType=<BMUnitType>&LeadPartyName=<LeadPartyName>&NGCBMUnitName=<NGCBMUnitName>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | Default Sorting:  BM Unit ID  Settlement Period (ascending) (from body)  Time (ascending)  Input data flow : RURE,RDRE,RURI,NDZ,NTB,NTO,MZT,MNZT,SEL,SIL |
| **Comments** | Default Value (if none specified):  Settlement Date = {as per NRT criteria}  Settlement Period = {as per NRT criteria}  BM Unit Id = \*  BM Unit Type = \*  Lead Party Name = \*  NGC BM Unit Name = \*  (\* implies all values) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request –Dynamic Data | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | String | - | No | 1 to 50 or \* | 12 |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - Dynamic Data | |
| **Header Record** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “Dynamic Data” |
| Settlement Date | From input parameter |
| Settlement Period | From input parameter |

**Body Record:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RURE Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “RURE” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYY-MM-DD HH:MM | 2014-02-03 14:00 |
| Rate 1 | Double | - | No | - | 254.2 |
| Elbow 2 | Integer | - | No | - | 2541 |
| Rate 2 | Double | - | No | - | 245.0 |
| Elbow 3 | Integer | - | No | - | 2456 |
| Rate 3 | Double | - | No | - | 256.6 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RDRE Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “RDRE” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYY-MM-DD HH:MM | 2014-02-03 14:00 |
| Rate 1 | Double | - | No | - | 254.2 |
| Elbow 2 | Integer | - | No | - | 2541 |
| Rate 2 | Double | - | No | - | 245.0 |
| Elbow 3 | Integer | - | No | - | 2456 |
| Rate 3 | Double | - | No | - | 256.6 |
| Active Flag | String | - | No | - | Y |

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| **RURI Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “RURI” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYY-MM-DD HH:MM | 2014-02-03 14:00 |
| Rate 1 | Double | - | No | - | 254.2 |
| Elbow 2 | Integer | - | No | - | 2541 |
| Rate 2 | Double | - | No | - | 245.0 |
| Elbow 3 | Integer | - | No | - | 2456 |
| Rate 3 | Double | - | No | - | 256.6 |
| Active Flag | String | - | No | - | Y |

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| **RURE Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “RURE” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYY-MM-DD HH:MM | 2014-02-03 14:00 |
| Rate 1 | Double | - | No | - | 254.2 |
| Elbow 2 | Integer | - | No | - | 2541 |
| Rate 2 | Double | - | No | - | 245.0 |
| Elbow 3 | Integer | - | No | - | 2456 |
| Rate 3 | Double | - | No | - | 256.6 |
| Active Flag | String | - | No | - | Y |

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| **NDZ Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “NDZ” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYY-MM-DD HH:MM | 2014-03-03 13:00 |
| Notice | Double | - | No | - | 2.000 |
| Active Flag | String | - | No | - | Y |

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| **NDB Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “NDB” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYY-MM-DD HH:MM | 2014-03-03 13:00 |
| Notice | Double | - | No | - | 2.000 |
| Active Flag | String | - | No | - | Y |

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| **NDO Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “NDO” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYY-MM-DD HH:MM | 2014-03-03 13:00 |
| Notice | Double | - | No | - | 2.000 |
| Active Flag | String | - | No | - | Y |

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| **MZT Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “MZT” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYY-MM-DD HH:MM | 2014-03-03 13:00 |
| Period | Double | - | No | - | 240.000 |
| Active Flag | String | - | No | - | Y |

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| **MNZT Data** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “MNZT” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYY-MM-DD HH:MM | 2014-03-03 13:00 |
| Period | Double | - | No | - | 240.000 |
| Active Flag | String | - | No | - | Y |

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| **SEL Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “SEL” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYY-MM-DD HH:MM | 2014-03-03 13:00 |
| Level | Double | - | No | - | 240.000 |
| Active Flag | String | - | No | - | Y |

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| **SIL Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “SIL” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYY-MM-DD HH:MM | 2014-03-03 13:00 |
| Level | Double | - | No | - | 240.000 |
| Active Flag | String | - | No | - | Y |

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| **MDV Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “MDV” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYY-MM-DD HH:MM | 2014-03-03 13:00 |
| Level | Double | - | No | - | 240.000 |
| Active Flag | String | - | No | - | Y |

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| **MDP Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “MDP” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYY-MM-DD HH:MM | 2014-03-03 13:00 |
| Period | Double | - | No | - | 240.000 |
| Active Flag | String | - | No | - | Y |

**CSV Download service**

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| **RURE Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “RURE” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYYMMDDHHMMSS | 20140303130025 |
| Rate 1 | Double | - | No | - | 254.2 |
| Elbow 2 | Integer | - | No | - | 2541 |
| Rate 2 | Double | - | No | - | 245.0 |
| Elbow 3 | Integer | - | No | - | 2456 |
| Rate 3 | Double | - | No | - | 256.6 |

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| **RDRE Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “RDRE” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYYMMDDHHMMSS | 20140303130025 |
| Rate 1 | Double | - | No | - | 254.2 |
| Elbow 2 | Integer | - | No | - | 2541 |
| Rate 2 | Double | - | No | - | 245.0 |
| Elbow 3 | Integer | - | No | - | 2456 |
| Rate 3 | Double | - | No | - | 256.6 |

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| **RURI Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “RURI” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYYMMDDHHMMSS | 20140303130025 |
| Rate 1 | Double | - | No | - | 254.2 |
| Elbow 2 | Integer | - | No | - | 2541 |
| Rate 2 | Double | - | No | - | 245.0 |
| Elbow 3 | Integer | - | No | - | 2456 |
| Rate 3 | Double | - | No | - | 256.6 |

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| **RURE Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “RURE” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYYMMDDHHMMSS | 20140303130025 |
| Rate 1 | Double | - | No | - | 254.2 |
| Elbow 2 | Integer | - | No | - | 2541 |
| Rate 2 | Double | - | No | - | 245.0 |
| Elbow 3 | Integer | - | No | - | 2456 |
| Rate 3 | Double | - | No | - | 256.6 |

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| **NDZ Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “NDZ” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYYMMDDHHMMSS | 20140303130025 |
| Notice | Double | - | No | - | 2.000 |

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| **NDB Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “NDB” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYYMMDDHHMMSS | 20140303130025 |
| Notice | Double | - | No | - | 2.000 |

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| **NDO Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “NDO” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYYMMDDHHMMSS | 20140303130025 |
| Notice | Double | - | No | - | 2.000 |

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| **MZT Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “MZT” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYYMMDDHHMMSS | 20140303130025 |
| Period | Double | - | No | - | 240.000 |

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| **MNZT Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “MNZT” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYYMMDDHHMMSS | 20140303130025 |
| Period | Double | - | No | - | 240.000 |

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| **SEL Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “SEL” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYYMMDDHHMMSS | 20140303130025 |
| Level | Double | - | No | - | 240.000 |

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| **SIL Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “SIL” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYYMMDDHHMMSS | 20140303130025 |
| Level | Double | - | No | - | 240.000 |

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| **MDV Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “MDV” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYYMMDDHHMMSS | 20140303130025 |
| Level | Double | - | No | - | 240.000 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **MDP Data** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “MDP” |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Time | Date | - | No | YYYYMMDD HHMMSS | 20140303130025 |
| Period | Double | - | No | - | 240.000 |

### Derived BM Unit Data

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | derivedBMUnitDataService |
| **Operation Name** | derivedBMUnitDataImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/DERBMDATA/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&BMUnitId=<BMUnitId>&BMUnitType=<BMUnitType>&LeadPartyName=<LeadPartyName>&NGCBMUnitName=<NGCBMUnitName>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | Default Sorting:  BM Unit ID  Settlement Period (ascending) (from body)  Acceptance ID (applicable only to Body Record Bid Acceptance Volumes and Body Record Offer Acceptance Volumes)  Input data flow : BOALF |
| **Comments** | Default Value (if none specified):  Settlement Date = {as per NRT criteria}  Settlement Period = {as per NRT criteria}  BM Unit Id = \*  BM Unit Type = \*  Lead Party Name = \*  NGC BM Unit Name = \*  (\* implies all values) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request –Derived BM Unit Data | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | String | - | No | 1 to 50 or \* | 12 |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - Derived BM Unit Data | |
| **Header Record** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “DERIVED DATA” |
| Settlement Date | From input parameter |
| Settlement Period | From input parameter |

**Body Records:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Bid Acceptance Volume** | |  |  |  | | |  | |
| **Logical Field Name** | **Field Type** | **Remarks** | | | **Mandatory** | **XML Format** | | **Sample data** |
| Record Type | String | - | | | No | - | | Fixed string value “BAV” |
| BM Unit Id | String | - | | | No | - | | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | | | No | - | | G, S, E, I, T, etc |
| Lead Party Name | String | - | | | No | - | | AES New Energy Limited |
| NGC BM Unit Name | String | - | | | No | - | | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | | | No | YYYY-MM-DD | | 2014-02-01 |
| Settlement Period | Integer | - | | | No | - | | 9 |
| Acceptance ID | String | - | | | No | - | | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| Short Acceptance Flag | String | - | | | No | - | | G, S, E, I, T, etc |
| RR Instruction Flag | String | - | | | No | - | | F |
| Volume Accepted for Bid-Offer Pair -6 | String | - | | | No | - | |  |
| Volume Accepted for Bid-Offer Pair -5 | String | - | | | No | - | | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Volume Accepted for Bid-Offer Pair -4 | String | - | | | No | - | | - |
| Volume Accepted for Bid-Offer Pair -3 | String | - | | | No | - | | - |
| Volume Accepted for Bid-Offer Pair -2 | String | - | | | No | - | | - |
| Volume Accepted for Bid-Offer Pair -1 | String | - | | | No | - | | - |
| Volume Accepted for Bid-Offer Pair 1 | String | - | | | No | - | | - |
| Volume Accepted for Bid-Offer Pair 2 | String | - | | | No | - | | - |
| Volume Accepted for Bid-Offer Pair 3 | String | - | | | No | - | | - |
| Volume Accepted for Bid-Offer Pair 4 | String | - | | | No | - | | - |
| Volume Accepted for Bid-Offer Pair 5 | String | - | | | No | - | | - |
| Volume Accepted for Bid-Offer Pair 6 | String | - | | | No | - | | - |
| Total | String | - | | | No | - | | - |
| Active Flag | String | - | | | No | - | | Y |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Offer Acceptance Volume** | |  |  |  | | | |  |
| **Logical Field Name** | **Field Type** | **Remarks** | | | **Mandatory** | **XML Format** | **Sample data** | | |
| Record Type | String | - | | | No | - | Fixed string value “OAV” | | |
| BM Unit Id | String | - | | | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 | | |
| BM Unit Type | String | - | | | No | - | G, S, E, I, T, etc | | |
| Lead Party Name | String | - | | | No | - | AES New Energy Limited | | |
| NGC BM Unit Name | String | - | | | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 | | |
| Settlement Date | String | - | | | No | YYYY-MM-DD | 2014-02-01 | | |
| Settlement Period | Integer | - | | | No | - | 9 | | |
| Acceptance ID | String | - | | | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 | | |
| Short Acceptance Flag (a.k.a. Acceptance Duration) | String | - | | | No | - | G, S, E, I, T, etc | | |
| RR Instruction Flag | String | - | | | No | - | F | | |
| Volume Accepted for Bid-Offer Pair -6 | String | - | | | No | - | - | | |
| Volume Accepted for Bid-Offer Pair -5 | String | - | | | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 | | |
| Volume Accepted for Bid-Offer Pair -4 | String | - | | | No | - | - | | |
| Volume Accepted for Bid-Offer Pair -3 | String | - | | | No | - | - | | |
| Volume Accepted for Bid-Offer Pair -2 | String | - | | | No | - | - | | |
| Volume Accepted for Bid-Offer Pair -1 | String | - | | | No | - | - | | |
| Volume Accepted for Bid-Offer Pair 1 | String | - | | | No | - | - | | |
| Volume Accepted for Bid-Offer Pair 2 | String | - | | | No | - | - | | |
| Volume Accepted for Bid-Offer Pair 3 | String | - | | | No | - | - | | |
| Volume Accepted for Bid-Offer Pair 4 | String | - | | | No | - | - | | |
| Volume Accepted for Bid-Offer Pair 5 | String | - | | | No | - | - | | |
| Volume Accepted for Bid-Offer Pair 6 | String | - | | | No | - | - | | |
| Total | String | - | | | No | - | - | | |
| Active Flag | String | - | | | No | - | Y | | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Indicative Period Bid Acceptance Volumes** | | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** | |
| Record Type | String | - | No | - | Fixed string value “IPBAV” | |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Data Type | String | - | No | - |  | |
| RR Instruction Flag | String | - | No | - | F | |
| Volume Accepted for Bid-Offer Pair -6 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair -5 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair -4 | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 | |
| Volume Accepted for Bid-Offer Pair -3 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair -2 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair -1 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 1 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 2 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 3 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 4 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 5 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 6 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair -6 | String | - | No | - | - | |
| Total | String | - | No | - | - | |
| Active Flag | String | - | No | - | Y | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Indicative Period Offer Acceptance Volumes** | | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** | |
| Record Type | String | - | No | - | Fixed string value “IPOAV” | |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Data Type | String | - | No | - | - | |
| RR Instruction Flag | String | - | No | - | F | |
| Volume Accepted for Bid-Offer Pair -6 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair -5 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair -4 | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 | |
| Volume Accepted for Bid-Offer Pair -3 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair -2 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair -1 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 1 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 2 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 3 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 4 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 5 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 6 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair -6 | String | - | No | - | - | |
| Total | String | - | No | - | - | |
| Active Flag | String | - | No | - | Y | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Indicative Period Bid Cashflow** | | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** | |
| Record Type | String | - | No | - | Fixed string value “IPBC” | |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Data Type | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -6 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -5 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -4 | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 | |
| Cashflow for Bid-Offer Pair -3 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -2 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -1 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 1 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 2 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 3 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 4 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 5 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 6 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -6 | String | - | No | - | - | |
| Total | String | - | No | - | - | |
| Active Flag | String | - | No | - | Y | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Indicative Period Offer Cashflow** | | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** | |
| Record Type | String | - | No | - | Fixed string value “IPOC” | |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 9 |
| Data Type | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -6 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -5 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -4 | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 | |
| Cashflow for Bid-Offer Pair -3 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -2 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -1 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 1 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 2 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 3 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 4 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 5 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 6 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -6 | String | - | No | - | - | |
| Total | String | - | No | - | - | |
| Active Flag | String | - | No | - | Y | |

**CSV Download service**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Bid Acceptance Volume** | |  |  |  | | |  | |
| **Logical Field Name** | **Field Type** | **Remarks** | | | **Mandatory** | **XML Format** | | **Sample data** |
| Record Type | String | - | | | No | - | | Fixed string value “BAV” |
| BM Unit Id | String | - | | | No | - | | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | | | No | - | | G, S, E, I, T, etc |
| Lead Party Name | String | - | | | No | - | | AES New Energy Limited |
| NGC BM Unit Name | String | - | | | No | - | | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | | | No | YYYYMMDD | | 20140201 |
| Settlement Period | Integer | - | | | No | - | | 9 |
| Acceptance ID | String | - | | | No | - | | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| Short Acceptance Flag | String | - | | | No | - | | G, S, E, I, T, etc |
| RR Instruction Flag | String | - | | | No | - | | F |
| Volume Accepted for Bid-Offer Pair -6 | String | - | | | No | - | |  |
| Volume Accepted for Bid-Offer Pair -5 | String | - | | | No | - | | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Volume Accepted for Bid-Offer Pair -4 | String | - | | | No | - | | - |
| Volume Accepted for Bid-Offer Pair -3 | String | - | | | No | - | | - |
| Volume Accepted for Bid-Offer Pair -2 | String | - | | | No | - | | - |
| Volume Accepted for Bid-Offer Pair -1 | String | - | | | No | - | | - |
| Volume Accepted for Bid-Offer Pair 1 | String | - | | | No | - | | - |
| Volume Accepted for Bid-Offer Pair 2 | String | - | | | No | - | | - |
| Volume Accepted for Bid-Offer Pair 3 | String | - | | | No | - | | - |
| Volume Accepted for Bid-Offer Pair 4 | String | - | | | No | - | | - |
| Volume Accepted for Bid-Offer Pair 5 | String | - | | | No | - | | - |
| Volume Accepted for Bid-Offer Pair 6 | String | - | | | No | - | | - |
| Total | String | - | | | No | - | | - |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Offer Acceptance Volume** | |  |  |  | | | |  |
| **Logical Field Name** | **Field Type** | **Remarks** | | | **Mandatory** | **XML Format** | **Sample data** | | |
| Record Type | String | - | | | No | - | Fixed string value “OAV” | | |
| BM Unit Id | String | - | | | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 | | |
| BM Unit Type | String | - | | | No | - | G, S, E, I, T, etc | | |
| Lead Party Name | String | - | | | No | - | AES New Energy Limited | | |
| NGC BM Unit Name | String | - | | | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 | | |
| Settlement Date | String | - | | | No | YYYYMMDD | 20140201 | | |
| Settlement Period | Integer | - | | | No | - | 9 | | |
| Acceptance ID | String | - | | | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 | | |
| Short Acceptance Flag (a.k.a. Acceptance Duration) | String | - | | | No | - | G, S, E, I, T, etc | | |
| RR Instruction Flag | String | - | | | No | - | F | | |
| Volume Accepted for Bid-Offer Pair -6 | String | - | | | No | - | - | | |
| Volume Accepted for Bid-Offer Pair -5 | String | - | | | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 | | |
| Volume Accepted for Bid-Offer Pair -4 | String | - | | | No | - | - | | |
| Volume Accepted for Bid-Offer Pair -3 | String | - | | | No | - | - | | |
| Volume Accepted for Bid-Offer Pair -2 | String | - | | | No | - | - | | |
| Volume Accepted for Bid-Offer Pair -1 | String | - | | | No | - | - | | |
| Volume Accepted for Bid-Offer Pair 1 | String | - | | | No | - | - | | |
| Volume Accepted for Bid-Offer Pair 2 | String | - | | | No | - | - | | |
| Volume Accepted for Bid-Offer Pair 3 | String | - | | | No | - | - | | |
| Volume Accepted for Bid-Offer Pair 4 | String | - | | | No | - | - | | |
| Volume Accepted for Bid-Offer Pair 5 | String | - | | | No | - | - | | |
| Volume Accepted for Bid-Offer Pair 6 | String | - | | | No | - | - | | |
| Total | String | - | | | No | - | - | | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Indicative Period Bid Acceptance Volumes** | | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** | |
| Record Type | String | - | No | - | Fixed string value “IPBAV” | |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYYMMDD | 20140201 |
| Settlement Period | Integer | - | No | - | 9 |
| Data Type | String | - | No | - |  | |
| RR Instruction Flag | String | - | No | - | F | |
| Volume Accepted for Bid-Offer Pair -6 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair -5 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair -4 | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 | |
| Volume Accepted for Bid-Offer Pair -3 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair -2 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair -1 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 1 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 2 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 3 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 4 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 5 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 6 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair -6 | String | - | No | - | - | |
| Total | String | - | No | - | - | |
| Active Flag | String | - | No | - | Y | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Indicative Period Offer Acceptance Volumes** | | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** | |
| Record Type | String | - | No | - | Fixed string value “IPOAV” | |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYYMMDD | 20140201 |
| Settlement Period | Integer | - | No | - | 9 |
| Data Type | String | - | No | - | - | |
| RR Instruction Flag | String | - | No | - | F | |
| Volume Accepted for Bid-Offer Pair -6 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair -5 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair -4 | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 | |
| Volume Accepted for Bid-Offer Pair -3 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair -2 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair -1 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 1 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 2 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 3 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 4 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 5 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair 6 | String | - | No | - | - | |
| Volume Accepted for Bid-Offer Pair -6 | String | - | No | - | - | |
| Total | String | - | No | - | - | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Indicative Period Bid Cashflow** | | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** | |
| Record Type | String | - | No | - | Fixed string value “IPBC” | |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYYMMDD | 20140201 |
| Settlement Period | Integer | - | No | - | 9 |
| Data Type | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -6 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -5 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -4 | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 | |
| Cashflow for Bid-Offer Pair -3 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -2 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -1 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 1 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 2 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 3 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 4 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 5 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 6 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -6 | String | - | No | - | - | |
| Total | String | - | No | - | - | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Indicative Period Offer Cashflow** | | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** | |
| Record Type | String | - | No | - | Fixed string value “IPOC” | |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Settlement Date | String | - | No | YYYYMMDD | 20140201 |
| Settlement Period | Integer | - | No | - | 9 |
| Data Type | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -6 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -5 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -4 | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 | |
| Cashflow for Bid-Offer Pair -3 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -2 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -1 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 1 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 2 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 3 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 4 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 5 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair 6 | String | - | No | - | - | |
| Cashflow for Bid-Offer Pair -6 | String | - | No | - | - | |
| Total | String | - | No | - | - | |

### Derived System Wide Data

API service details for the flow is as follows

|  |  |
| --- | --- |
| **Service Name** | derivedSystemWideDataService |
| **Operation Name** | derivedSystemWideDataImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/DERSYSDATA/<VersionNo>?APIKey=<APIKey>&FromSettlementDate=<FromSettlementDate>&ToSettlementDate=<ToSettlementDate>&SettlementPeriod=<SettlementPeriod>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | Default Sorting:  Settlement Date (Ascending)  Settlement Period (Ascending)  Input data flow : Derived |
| **Comments** | Default Value (if none specified):  From Settlement Date = Current System Date -1(i.e. Yesterday)  To Date = Current System Date (i.e Today)  Settlement Period = \*  (\* implies all values) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request – Derived System-wide Data | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| From Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| To Settlement Date | String | - | No | YYYY-MM-DD | 2014-03-01 |
| Settlement Period | String | - | No | 1 to 50 or \* | 12 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response - Derived System-wide Data | |
|  | |
| **Header Record** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “SYSTEM BUY SELL DATA” |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Body Record** |  |  |  | |  | | |  |
| **Logical Field Name** | **Field Type** | **Remarks** | | **Mandatory** | | **XML Format** | **Sample data** | | |
| Record Type | String | - | | No | | - | Fixed string value “SSB” | | |
| Settlement Date | Date | - | | No | | YYYY-MM-DD | 2014-02-01 | | |
| Settlement Period | Integer | - | | No | | 1 to 50 or \* | 1 | | |
| System Sell Price  (SSP in £/MWh) | Double | - | | No | | - | 31.60000 | | |
| System Buy Price  (SBP in £/MWh) | Double | - | | No | | - | 38.66000 | | |
| BSAD Default | String | - | | No | | - | F | | |
| Price Derivation Code (PDC) | String | - | | No | | - | F | | |
| Reserve Scarcity Price | Double |  | | No | | - | 15.03210 | | |
| Indicative Net Imbalance Volume (NIV) | Double | - | | No | | - | 294.983 | | |
| Sell-Price Price Adjustment (SPA) | Double | - | | No | | - | 0.00 | | |
| Buy-Price Price Adjustment (BPA) | Double | - | | No | | - | 5.50 | | |
| Replacement Price (RP in £/MWh ) | Double | - | | No | | - | 294.983 | | |
| Replacement Price Calculation Volume (RPRV in MWh) | Double | - | | No | | - | 294.983 | | |
| Total System Accepted Offer Volume | Double | - | | No | | - | 294.983 | | |
| Total System Accepted Bid Volume | Double | - | | No | | - | 294.983 | | |
| Total System Tagged Accepted Offer Volume | Double | - | | No | | - | 294.983 | | |
| Total System Tagged Accepted Bid Volume | Double | - | | No | | - | 294.983 | | |
| System Total Priced Accepted Offer Volume | Double | - | | No | | - | 294.983 | | |
| System Total Priced Accepted Bid Volume | Double | - | | No | | - | 294.983 | | |
| Total System Adjustment Sell Volume | Double | - | | No | | - | 294.983 | | |
| Total System Adjustment Buy Volume | Double | - | | No | | - | 294.983 | | |
| Total System Tagged Adjustment Sell Volume | Double | - | | No | | - | 294.983 | | |
| Total System Tagged Adjustment Buy Volume | Double | - | | No | | - | 294.983 | | |

**CSV Download service**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | |  | | |  |
| **Logical Field Name** | **Field Type** | **Remarks** | | **Mandatory** | | **CSV Format** | **Sample data** | | |
| Record Type | String | - | | No | | - | Fixed string value “SSB” | | |
| Settlement Date | Date | - | | No | | YYYYMMDD | 20140201 | | |
| Settlement Period | Integer | - | | No | | 1 to 50 or \* | 1 | | |
| System Sell Price  (SSP in £/MWh) | Double | - | | No | | - | 31.60000 | | |
| System Buy Price  (SBP in £/MWh) | Double | - | | No | | - | 38.66000 | | |
| BSAD Default | String | - | | No | | - | F | | |
| Price Derivation Code (PDC) | String | - | | No | | - | F | | |
| Reserve Scarcity Price | Double |  | | No | | - | 15.03210 | | |
| Indicative Net Imbalance Volume (NIV) | Double | - | | No | | - | 294.983 | | |
| Replacement Price (RP in £/MWh ) | Double | - | | No | | - | 294.983 | | |
| Replacement Price Calculation Volume (RPRV in MWh) | Double | - | | No | | - | 294.983 | | |
| Total System Accepted Offer Volume | Double | - | | No | | - | 294.983 | | |
| Total System Accepted Bid Volume | Double | - | | No | | - | 294.983 | | |
| Total System Tagged Accepted Offer Volume | Double | - | | No | | - | 294.983 | | |
| Total System Tagged Accepted Bid Volume | Double | - | | No | | - | 294.983 | | |
| System Total Priced Accepted Offer Volume | Double | - | | No | | - | 294.983 | | |
| System Total Priced Accepted Bid Volume | Double | - | | No | | - | 294.983 | | |
| Total System Adjustment Sell Volume | Double | - | | No | | - | 294.983 | | |
| Total System Adjustment Buy Volume | Double | - | | No | | - | 294.983 | | |
| Total System Tagged Adjustment Sell Volume | Double | - | | No | | - | 294.983 | | |
| Total System Tagged Adjustment Buy Volume | Double | - | | No | | - | 294.983 | | |

### Detailed System Prices

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | detailedSystemPricesService |
| **Operation Name** | detailedSystemPricesImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/DETSYSPRICES/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending), Index (Ascending), and Component Identifier (Alphabetically sorted).  Input data flow : Derived |
| **Comments** | Default Value (if none specified):  From Settlement Date = Current System Date  Settlement Period = Current Settlement Period  Note that NO wildcard (\*) allowed for Settlement Period. |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request –Detailed System Prices | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | String | - | No | - | 2 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response – Detailed System Prices | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “INDICATIVE SYSTEM PRICE STACK DATA” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record:** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| **System Price Calculation Summary** | | | | | |
| Record Type | String | - | No | - | Fixed as “MAIN PRICE SUMMARY” |
| Settlement Date | Date | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 2 |
| Cost | Double | - | No | - | 1555.66 |
| Volume | Double | - | No | - | 39.097 |
| Adjuster | Double | - | No | - | 0.00 |
| Value | Double | - | No | - | 39.78979 |
| Type | String | - | No | - | SBP |
| Record Type | String | - | No | - | Fixed as “MARKET PRICE SUMMARY” |
| Settlement Date | Date | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 2 |
| Cost | Double | - | No | - | 1555.66 |
| Volume | Double | - | No | - | 39.097 |
| Value | Double | - | No | - | 39.78979 |
| Type | String | - | No | - | SBP |
| Price Derivation Code | String | - | No | - | B |
| **Indicative System Price Offer Stack Data** | | | | | |
| Record Type | String | - | No | - | Fixed String “OFFER” |
| Settlement Date | Date | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 2 |
| Index (Sequence number) | Integer | - | No | - | 12 |
| ID (Component Identifier) | String | - | No | - | T\_DINO-5 |
| Acceptance ID | String | - | No | - | 58932 |
| Bid Offer Pair ID | String | - | No | - | 11 |
| CADL Flag | String | - | No | - | T |
| SO Flag | String | - | No | - | F |
| STOR Provider Flag | String | - | No | - | F |
| Repriced Indicator | String | - | No | - | F |
| Bid Offer Original Price | Double | - | No | - | 160.00000 |
| Reserve Scarcity Price | Double | - | No | - | 120.25 |
| OfferVolume (Stack Item Original Volume) | Double | - | No | - | 30.000 |
| DMAT Adjusted Volume | Double | - | No | - | 30.000 |
| Arbitrage Adjusted Volume | Double | - | No | - | 30.000 |
| NIV Adjusted Volume | Double | - | No | - | 0.000 |
| PAR Adjusted Volume | Double | - | No | - | 0.000 |
| (Stack Item) Final Price | Double | - | No | - | 0.00000 |
| Transmission Loss Multiplier (TLM) | Double | - | No | - | 0.0000000 |
| TLM Adjusted Volume (QAPO \* TLM) | Double | - | No | - | 0.000 |
| TLM Adjusted Cost (QAPO \* PO \* TLM) | Double | - | No | - | 0.00 |
| **Totals** | | | | | |
| TOTAL of TLM Adjusted Volume | Double | - | No | - | 39.097 |
| TOTAL of TLM Adjusted Cost | Double | - | No | - | 1555.66 |
|  |  |  |  |  |  |
| **Indicative System Price Bid Stack Data** | | | | | |
| Record Type | String | - | No | - | Fixed String “BID” |
| Settlement Date | Date | - | No | YYYY-MM-DD | 2014-02-01 |
| Settlement Period | Integer | - | No | - | 2 |
| Index (Sequence number) | Integer | - | No | - | 8 |
| ID (Component Identifier) | String | - | No | - | T\_RUGPS-6 |
| Acceptance ID | String | - | No | - | 109766 |
| Bid Offer Pair ID | String | - | No | - | -1 |
| CADL Flag | String | - | No | - | F |
| SO Flag | String | - | No | - | F |
| STOR Provider Flag | String | - | No | - | F |
| Repriced Indicator | String | - | No | - | F |
| Bid Price (Stack Item Original Price) | Double | - | No | - | 30.01000 |
| Reserve Scarcity Price | Double | - | No | - | 120.25 |
| Bid Volume (Stack Item Original Volume) | Double | - | No | - | -4.083 |
| DMAT Adjusted Volume | Double | - | No | - | -4.083 |
| Arbitrage Adjusted Volume | Double | - | No | - | -4.083 |
| NIV Adjusted Volume | Double | - | No | - | 0.000 |
| PAR Adjusted Volume | Double | - | No | - | 0.000 |
| (Stack Item) Final Price | Double | - | No | - | 0.00000 |
| Transmission Loss Multiplier (TLM) | Double | - | No | - | 0.0000000 |
| TLM Adjusted Volume (QAPB \* TLM) | Double | - | No | - | 0.000 |
| TLM Adjusted Cost (QAPB \* PB \* TLM) | Double | - | No | - | 0.00 |
| **Totals** | | | | | |
| TOTAL of TLM Adjusted Volume | Double | - | No | - | 39.097 |
| TOTAL of TLM Adjusted Cost | Double | - | No | - | 1555.66 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download service** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| **System Price Calculation Summary** | | | | | |
| Record Type | String | - | No | - | Fixed as “MAIN PRICE SUMMARY” |
| Settlement Date | Date | - | No | YYYYMMDD | 20150210 |
| Settlement Period | Integer | - | No | - | 2 |
| Cost | Double | - | No | - | 1555.66 |
| Volume | Double | - | No | - | 39.097 |
| Adjuster | Double | - | No | - | 0.00 |
| Value | Double | - | No | - | 39.78979 |
| Type | String | - | No | - | SBP |
| Record Type | String | - | No | - | Fixed as “MARKET PRICE SUMMARY” |
| Settlement Date | Date | - | No | YYYYMMDD | 20150210 |
| Settlement Period | Integer | - | No | - | 2 |
| Cost | Double | - | No | - | 1555.66 |
| Volume | Double | - | No | - | 39.097 |
| Adjuster | Double | - | No | - | 0.00 |
| Value | Double | - | No | - | 39.78979 |
| Type | String | - | No | - | SBP |
| Price Derivation Code | String | - | No | - | B |
| **Indicative System Price Offer Stack Data** | | | | | |
| Record Type | String | - | No | - | Fixed String “OFFER” |
| Settlement Date | Date | - | No | YYYYMMDD | 20150210 |
| Settlement Period | Integer | - | No | - | 2 |
| Index (Sequence number) | Integer | - | No | - | 12 |
| ID (Component Identifier) | String | - | No | - | T\_DINO-5 |
| Acceptance ID | String | - | No | - | 58932 |
| Bid Offer Pair ID | String | - | No | - | 11 |
| CADL Flag | String | - | No | - | T |
| SO Flag | String | - | No | - | F |
| STOR Provider Flag | String | - | No | - | F |
| Repriced Indicator | String | - | No | - | F |
| Bid Offer Original Price | Double | - | No | - | 160.00000 |
| Reserve Scarcity Price | Double | - | No | - | 120.25 |
| OfferVolume (Stack Item Original Volume) | Double | - | No | - | 30.000 |
| DMAT Adjusted Volume | Double | - | No | - | 30.000 |
| Arbitrage Adjusted Volume | Double | - | No | - | 30.000 |
| NIV Adjusted Volume | Double | - | No | - | 0.000 |
| PAR Adjusted Volume | Double | - | No | - | 0.000 |
| (Stack Item) Final Price | Double | - | No | - | 0.00000 |
| Transmission Loss Multiplier (TLM) | Double | - | No | - | 0.0000000 |
| TLM Adjusted Volume (QAPO \* TLM) | Double | - | No | - | 0.000 |
| TLM Adjusted Cost (QAPO \* PO \* TLM) | Double | - | No | - | 0.00 |
| **Totals** | | | | | |
| TOTAL of TLM Adjusted Volume | Double | - | No | - | 39.097 |
| TOTAL of TLM Adjusted Cost | Double | - | No | - | 1555.66 |
| **Indicative System Price Bid Stack Data** | | | | | |
| Record Type | String | - | No | - | Fixed String “BID” |
| Settlement Date | Date | - | No | YYYYMMDD | 20150210 |
| Settlement Period | Integer | - | No | - | 2 |
| Index (Sequence number) | Integer | - | No | - | 8 |
| ID (Component Identifier) | String | - | No | - | T\_RUGPS-6 |
| Acceptance ID | String | - | No | - | 109766 |
| Bid Offer Pair ID | String | - | No | - | -1 |
| CADL Flag | String | - | No | - | F |
| SO Flag | String | - | No | - | F |
| STOR Provider Flag | String | - | No | - | F |
| Repriced Indicator | String | - | No | - | F |
| Bid Price (Stack Item Original Price) | Double | - | No | - | 30.01000 |
| Reserve Scarcity Price | Double | - | No | - | 120.25 |
| Bid Volume (Stack Item Original Volume) | Double | - | No | - | -4.083 |
| DMAT Adjusted Volume | Double | - | No | - | -4.083 |
| Arbitrage Adjusted Volume | Double | - | No | - | -4.083 |
| NIV Adjusted Volume | Double | - | No | - | 0.000 |
| PAR Adjusted Volume | Double | - | No | - | 0.000 |
| (Stack Item) Final Price | Double | - | No | - | 0.00000 |
| Transmission Loss Multiplier (TLM) | Double | - | No | - | 0.0000000 |
| TLM Adjusted Volume (QAPB \* TLM) | Double | - | No | - | 0.000 |
| TLM Adjusted Cost (QAPB \* PB \* TLM) | Double | - | No | - | 0.00 |
| **Totals** | | | | | |
| TOTAL of TLM Adjusted Volume | Double | - | No | - | 39.097 |
| TOTAL of TLM Adjusted Cost | Double | - | No | - | 1555.66 |

### Market Depth Data

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | marketDepthDataService |
| **Operation Name** | marketDepthDataImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/MKTDEPTHDATA/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | Default Sorting: Settlement Date (ascending)  Settlement Period (ascending)  Input data flow : IMBALNGC |
| **Comments** | Default Value (if none specified): Return all rows From Settlement Date = Current System Date -1(i.e. Yesterday) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request –Market Depth Data | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-02-01 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response – Market Depth Data | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “MARKET DEPTH DATA” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record:** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “MDD” |
| Settlement Date | Date | - | No | YYYY-MM-DD | 2015-01-26 |
| Settlement Period | Integer | - | No | - | 2 |
| IMBALNGC | Double | - | No | - | 80.000 |
| Total Offer Volume | Double | - | No | - | 48515.000 |
| Total Bid Volume | Double | - | No | - | -57826.000 |
| Total Accepted Offer Volume | Double | - | No | - | 1079.542 |
| Total Accepted Bid Volume | Double | - | No | - | -1028.994 |
| Total Unpriced Accepted Offer Volume | Double | - | No | - | 0.000 |
| Total Unpriced Accepted Bid Volume | Double | - | No | - | 0.000 |
| Total Priced Accepted Offer Volume | Double | - | No | - | 815.462 |
| Total Priced Accepted Bid Volume | Double | - | No | - | -1062.853 |
| Active Flag | String | - | No | - | Y |

**CSV Download service**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “MDD” |
| Settlement Date | Date | - | No | YYYYMMDD | 20150126 |
| Settlement Period | Integer | - | No | - | 2 |
| IMBALNGC | Double | - | No | - | 80.000 |
| Total Offer Volume | Double | - | No | - | 48515.000 |
| Total Bid Volume | Double | - | No | - | -57826.000 |
| Total Accepted Offer Volume | Double | - | No | - | 1079.542 |
| Total Accepted Bid Volume | Double | - | No | - | -1028.994 |
| Total Unpriced Accepted Offer Volume | Double | - | No | - | 0.000 |
| Total Unpriced Accepted Bid Volume | Double | - | No | - | 0.000 |
| Total Priced Accepted Offer Volume | Double | - | No | - | 815.462 |
| Total Priced Accepted Bid Volume | Double | - | No | - | -1062.853 |

### Latest Acceptances

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | latestAcceptancesService |
| **Operation Name** | latestAcceptancesImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/LATESTACCEPTS/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | Default Sorting: Acceptance Time (descending)  From Time (ascending)  Input data flow : BOALF |
| **Comments** | - |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request –Latest Acceptances | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response – Latest Acceptances | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “LATEST ACCEPTANCE DATA” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record:** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “LAD” |
| BM Unit Id | String | - | No | - | T\_FFES-4 |
| Acceptance Number | Integer | - | No | - | 2558965231 |
| Acceptance Time | Date | - | No | YYYY-MM-DD HH:MM | 2015-01-26 00:47 |
| From Time | Date | - | No | YYYY-MM-DD HH:MM | 2015-01-26 23:47 |
| Active Flag | String | - | No | - | Y |

**CSV Download service**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “LAD” |
| BM Unit Id | String | - | No | - | T\_STAY-2 |
| Acceptance Number | Integer | - | No | - | 2558965231 |
| Acceptance Time | Date | - | No | yyyymmddhhmmss | 20150126004700 |
| From Time | Date | - | No | YYYYMMDDHHMMSS | 20150126004700 |

### Historic Acceptances

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | historicAcceptancesService |
| **Operation Name** | historicAcceptancesImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/HISTACCEPTS/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | Default Sorting: Acceptance Time (ascending)  Input data flow : BOALF |
| **Comments** | Default Value (if none specified):  From Settlement Date = Current System Date  Settlement Period = Current Settlement Period |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request –Historic Acceptances | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Settlement Date | String | - | No | YYYY-MM-DD | 2014-12-31 |
| Settlement Period | String | - | No | 1 to 50 | 2 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response – Historic Acceptances | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “ACCEPTANCE DATA” |
| Settlement Date | From input parameter |
| Settlement Period | number between 1 and 50 or \* if selecting a full day’s data (from input parameter) |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record:** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “HAD” |
| BM Unit Id | String | - | No | - | T\_STAY-2 |
| Acceptance Number | Integer | - | No | - | 2558965231 |
| Acceptance Time | Date | - | No | YYYY-MM-DD HH:MM | 2015-01-26 00:47 |
| Offer Price | Double | - | No | - | 58.00000 |
| Bid Price | Double | - | No | - | 35.00000 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download service** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “HAD” |
| BM Unit Id | String | - | No | - | T\_STAY-2 |
| Acceptance Number | Integer | - | No | - | 2558965231 |
| Acceptance Time | Date | - | No | yyyymmddhhmmss | 20150126004700 |
| Offer Price | Double | - | No | - | 58.00000 |
| Bid Price | Double | - | No | - | 35.00000 |

**NOTE:**

* **Note that NO wildcard (\*) allowed for Settlement Period.**

### System Messages

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | systemMessagesService |
| **Operation Name** | systemMessagesImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/SYSMSG/<VersionNo>?APIKey=<APIKey>& ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | Default Sorting: Acceptance Time (descending)  Input data flow : NA |
| **Source** | MySQL |
| **Destination** | Third party software |
| **Data Source** | Reporting Database |
| **Database Table Name** | T\_BMRS\_SYS\_MSGS |
| **Comments** | - |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request –System Messages | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response – System Messages | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “SYSTEM MESSAGES” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record:** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “SYSMSG”” |
| Message Date Time | Date | - | No | YYYY-MM-DD HH:MM | 2015-02-25 07:21 |
| Message Type | String | - | No | - | MIDNP |
| Message Text | String | - | No | - | Market Index Data for Settlement Day 20150225 period 14 from Automated Power Exchange (UK) (APXMIDP) was not received. Price and volume defaulted to 0. |
| Active Flag | String | - | No | - | Y |
| **CSV Download service** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “SYSMSG”” |
| Message Date Time | Date | - | No | YYYYMMDDHHMMSS | 20150126004700 |
| Message Type | String | - | No | - | MIDNP |
| Message Text | String | - | No | - | Market Index Data for Settlement Day 20150225 period 14 from Automated Power Exchange (UK) (APXMIDP) was not received. Price and volume defaulted to 0. |

### BM Unit Search

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | bmUnitSearchService |
| **Operation Name** | bmUnitSearchImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/BMUNITSEARCH/<VersionNo>?APIKey=<APIKey>&BmUnitId=<BmUnitId>&BmUnitType=<BmUnitType>&LeadPartyName=<LeadPartyName>&NgcBmUnitName=<NgcBmUnitName>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | Default Sorting: BM Unit ID |
| **Source** | MySQL |
| **Destination** | Third party software |
| **Data Source** | Reporting Database |
| **Database Table Name** | T\_BMRS\_BM\_UNT\_SRCH |
| **Comments** | Default Value (if none specified):  BM Unit Id = \*  BM Unit Type = \*  Lead Party Name = \*  NGC BM Unit Name = \*  (\* implies all values) |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request –BM Unit Search | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| BM Unit Id | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response –BM Unit Search | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “BM UNIT DATA” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record:** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “BMUD” |
| BM Unit ID | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |
| Active Flag | String | - | No | - | Y |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSV Download service** | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “BMUD” |
| BM Unit ID | String | - | No | - | 2\_\_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01 |
| BM Unit Type | String | - | No | - | G, S, E, I, T, etc |
| Lead Party Name | String | - | No | - | AES New Energy Limited |
| NGC BM Unit Name | String | - | No | - | EAS-ASP01, AES New Energy Limited, G, 2\_\_AAEPD000 |

### System Warning (Today/Tomorrow)

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | systemWarningTodayTomorrowService |
| **Operation Name** | systemWarningTodayTomorrowImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/SYSWARNTDYTOM<VersionNo>?APIKey=<APIKey&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | Default Sorting: Times applicable (descending); separately for TODAY and TOMORROW  Input data flow : System Warning flow from NGC |
| **Source** | MySQL |
| **Comments** | - |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request –System Warning (Today/Tomorrow) | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response – System Warning (Today/Tomorrow) | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “SYSTEM WARNINGS IN FORCE” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record:** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| System warnings in force TODAY | | | | | |
| Record Type | String | - | No | - | Fixed string value “SYSWARNTDY ” |
| Today | Date | - | No | YYYY-MM-DD | 2008-07-02 |
| Warning in Force | String | - | No | - | TDY |
| Times applicable | String | - | No | - | NONE |
| Active Flag | String | - | No | - | Y |
| System warnings in force TOMORROW | | | | | |
| Record Type | String | - | No | - | Fixed string value “SYSWARNTOM” |
| Today | Date | - | No | YYYY-MM-DD | 2008-07-02 |
| Warning in Force | String | - | No | - | TDY |
| Times applicable | String | - | No | - | NONE |
| Active Flag | String | - | No | - | Y |

**CSV Download service**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| System warnings in force TODAY | | | | | |
| Record Type | String | - | No | - | Fixed string value “SYSWARNTDY ” |
| Today | Date | - | No | YYYYMMDD | 20080702 |
| Warning in Force | String | - | No | - | TDY |
| Times applicable | String | - | No | - | NONE |
| System warnings in force TOMORROW | | | | | |
| Record Type | String | - | No | - | Fixed string value “SYSWARNTOM” |
| Today | Date | - | No | YYYYMMDD | 20080702 |
| Warning in Force | String | - | No | - | TOM |
| Times applicable | String | - | No | - | NONE |

### System Warning (Historic)

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | systemWarningHistoricService |
| **Operation Name** | systemWarningHistoricImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/HISTSYSWARN/<VersionNo>?APIKey=<APIKey&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | Default Sorting : Times applicable (descending) Warning Date Time;  Input data flow : System Warning flow from NGC |
| **Source** | MySQL |
| **Comments** | - |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request –System Warning (Historic) | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| Service Type | String | - | No | - | xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response – System Warning (Historic) | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “SYSTEM WARNING - HISTORIC” |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Body Record:** |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “SYSWARNHIST” |
| Warning Type | String | - | No | - | - |
| Effective From | Date | - | No | - | - |
| Time Effective From | Date | - | No | - | - |
| Shortfall (MW) | Double | - | No | - | - |
| Date Warning Cancelled | Date | - | No | - | - |
| Time Warning Cancelled | Date | - | No | - | - |
| Active Flag | String | - | No | - | Y |

**CSV Download service**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “SYSWARNHIST” |
| Warning Type | String | - | No | - | - |
| Effective From | Date | - | No | - | - |
| Time Effective From | Date | - | No | - | - |
| Time Effective To | Date | - | No | - | - |
| Shortfall (MW) | Double | - | No | - | - |
| Date Warning Cancelled | Date | - | No | - | - |
| Time Warning Cancelled | Date | - | No | - | - |
| Active Flag | String | - | No | - | Y |

### Loss of Load Probability

API service details for the flow is as follows

|  |  |
| --- | --- |
| **Service Name** | lossOfLoadProbabilityService |
| **Operation Name** | lossOfLoadProbabilityImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/LOLPDRM/<VersionNo>?APIKey=<APIKey>&FromSettlementDate=<FromSettlementDate>&ToSettlementDate=<ToSettlementDate>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | Default Sorting :  1. Settlement Date (ascending)  2. Settlement Period (ascending) |
| **Source** | MySQL |
| **Comments** | Default Value (if none specified; this is the today/tomorrow web page case):  From Settlement Date = Current System Date  To Settlement Date = Current System Date + 2 |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request – Loss of Load Probability | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| From Settlement Date | String | - | No | YYYY-MM-DD | 2014-12-30 |
| To Settlement Date | String | - | No | YYYY-MM-DD | 2014-12-31 |
| Service Type | String | - | No | - | Xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response – Loss of Load Probability | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “LOLP” |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Body Record:** |  | |  |  |  |  |
| **Logical Field Name** | | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | | - | No | - | Fixed string value “LOLPDRM” |
| Settlement Date | Date | | - | No | YYYY-MM-DD | 2014-12-31 |
| Settlement Period | Integer | | - | No | - | 2 |
| LOLP\_1200 | Double | | - | No | - | 0.977100 |
| DRM\_1200 | Double | | - | No | - | 0.10000 |
| LOLP\_8h | Double | | - | No | - | 0.978500 |
| DRM\_8h | Double | | - | No | - | 0.24000 |
| LOLP\_4h | Double | | - | No | - | 0.981600 |
| DRM\_4h | Double | | - | No | - | 0.18000 |
| LOLP\_2h | Double | | - | No | - | 0.981200 |
| DRM\_2h | Double | | - | No | - | 0.14000 |
| LOLP\_1h | Double | | - | No | - | 0.981000 |
| DRM\_1h | Double | | - | No | - | 0.12000 |
| Active Flag | String | | - | No | - | Y |

**CSV Download service**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “LOLPDRM” |
| Settlement Date | Date | - | No | YYYYMMDD | 20141231 |
| Settlement Period | Integer | - | No | - | 2 |
| LOLP\_1200 | Double | - | No | - | 0.977100 |
| DRM\_1200 | Double | - | No | - | 0.10000 |
| LOLP\_8h | Double | - | No | - | 0.978500 |
| DRM\_8h | Double | - | No | - | 0.24000 |
| LOLP\_4h | Double | - | No | - | 0.981600 |
| DRM\_4h | Double | - | No | - | 0.18000 |
| LOLP\_2h | Double | - | No | - | 0.981200 |
| DRM\_2h | Double | - | No | - | 0.14000 |
| LOLP\_1h | Double | - | No | - | 0.981000 |
| DRM\_1h | Double | - | No | - | 0.12000 |

### Demand Control Instructions

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | demandControlInstructionService |
| **Operation Name** | demandControlInstructionImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/DEMCI/<VersionNo>?APIKey=<APIKey>&FromSettlementDate=<FromSettlementDate>&ToSettlementDate=<ToSettlementDate>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | Default Sorting :  1. Demand Control ID (ascending)  2. Instruction Sequence (ascending) |
| **Source** | MySQL |
| **Comments** | Default Value (if none specified; this is the today/tomorrow web page case):  From Settlement Date = Current System Date  To Settlement Date = Current System Date + 1 |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request – Demand Control Instruction | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| From Settlement Date | String | - | No | YYYY-MM-DD | 2014-12-30 |
| To Settlement Date | String | - | No | YYYY-MM-DD | 2014-12-31 |
| Service Type | String | - | No | - | Xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response – Demand Control Instruction | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “DCONTROL” |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Body Record:** |  | |  |  |  |  |
| **Logical Field Name** | | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | | - | No | - | Fixed string value “DEMCI” |
| Demand Control ID | String | | - | No | - | DCID1 |
| Affected DSO | Integer | | - | No | - | 1 |
| Instruction Sequence | String | | - | No | - | SPOW |
| Demand Control Event Flag | String | | - | No | - | L |
| Time From | Date | | - | No | YYYY-MM-DD HH:MM | 2014-12-31 10:00 |
| Time To | Date | | - | No | YYYY-MM-DD HH:MM | 2014-12-31 10:00 |
| Demand Control Level | Double | | - | No | - | 10.00000 |
| SO-Flag | String | | - | No | - | F |
| Active Flag | String | | - | No | - | Y |

**CSV Download service**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “DEMCI” |
| Demand Control ID | String | - | No | - | DCID1 |
| Affected DSO | Integer | - | No | - | 1 |
| Instruction Sequence | String | - | No | - | SPOW |
| Demand Control Event Flag | String | - | No | - | L |
| Time From | Date | - | No | YYYYMMDDHHMM | 201412311000 |
| Time To | Date | - | No | YYYYMMDDHHMM | 201412311000 |
| Demand Control Level | Double | - | No | - | 10.00000 |
| SO-Flag | String | - | No | - | F |

### STOR Availability Window

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | storAvailabilityWindowService |
| **Operation Name** | storAvailabilityWindowImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/BMRS/STORAW/<VersionNo>?APIKey=<APIKey>&FromSettlementDate=<SettlementDate>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Description** | Default Sorting :  1. STOR Availability From Date (ascending) |
| **Source** | MySQL |
| **Comments** | Default Value (if none specified; this is the current web page case):  From Settlement Date = Current System Date |

**API Web service – Request and Response format details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| API Webservice – Request – STOR Availability Window | | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Format** | **Sample data** |
| ApiKey | String | - | Yes | - | AP8DA23 |
| FromSettlementDate | String | - | No | YYYY-MM-DD | 2014-12-31 |
| Service Type | String | - | No | - | Xml/XML/csv/CSV |

|  |  |
| --- | --- |
| API Webservice – Response – STOR Availability Window | |
| **Header Record:** | |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “STORAW DATA” |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Body Record:** |  | |  |  |  |  |
| **Logical Field Name** | | **Field Type** | **Remarks** | **Mandatory** | **XML Format** | **Sample data** |
| Record Type | String | | - | No | - | Fixed string value “STORAW” |
| Document ID | Integer | | - | No | - | 67 |
| Season Year | Date | | - | No | YYYY-MM-DD | 2014-12-31 |
| Season Number | Integer | | - | No | - | 2 |
| STOR Availability From Date | Date | | - | No | YYYY-MM-DD HH:MM | 2014-12-31 10:00 |
| STOR Availability To Date | Date | | - | No | YYYY-MM-DD HH:MM | 2014-12-31 10:00 |
| Weekday Start Time | Date | | - | No | HH:MM | 10:00 |
| Weekday End Time | Date | | - | No | HH:MM | 10:00 |
| Non-weekday Start Time | Date | | - | No | HH:MM | 10:00 |
| Non-weekday End Time | Date | | - | No | HH:MM | 10:00 |
| Active Flag | String | | - | No | - | Y |

**CSV Download service**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “STORAW” |
| Document ID | Integer | - | No | - | 67 |
| Season Year | Date | - | No | YYYYMMDD | 20141231 |
| Season Number | Integer | - | No | - | 2 |
| STOR Availability From Date | Date | - | No | YYYYMMDDHHMM | 201412311000 |
| STOR Availability To Date | Date | - | No | YYYYMMDDHHMM | 201412311000 |
| Weekday Start Time | Date | - | No | HHMM | 10:00 |
| Weekday End Time | Date | - | No | HHMM | 10:00 |
| Non-weekday Start Time | Date | - | No | HHMM | 10:00 |
| Non-weekday End Time | Date | - | No | HHMM | 10:00 |

### Trading Unit Delivery Mode

**API service details for P321 TRADINGUNIT is as follows**

|  |  |
| --- | --- |
| **Service Name** | TRADINGUNITService |
| **Operation Name** | TRADINGUNITImpl |
| **Method** | GET |
| **Input URL** | 1. **Settlement Date & Settlement Period mentioned:**   https://api.bmreports.com/BMRS/TRADINGUNIT/V1?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&ServiceType=<xml/XML/csv/CSV>  **2) Settlement date, Settlement Period, trading unit type and trading unit name mentioned:**  https://api.bmreports.com/BMRS/TRADINGUNIT/v1?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&TradeType=<TradeType>&TradeName=<TradeName>&ServiceType=<xml/XML/csv/CSV> |
| Output Format | XML/CSV |

**API Web service – Request and Response format details:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| API Webservice – Request – Trading Unit | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Sample data** |
| APIKey | String |  | Yes | AP8DA23 |
| ServiceType | String |  | No | xml/csv/XML/CSV |
| SettlementDate | String |  | Yes | 2017-04-04 |
| SettlementPeriod | Int |  | Yes | 2 |
| TradeType | String |  | No | Sole |
| TradeName | String |  | No | E\_EMBEDD18 |
| API Webservice – Response– Trading Unit | | | | |
| Logical Field Name | Field Type | Remarks | Mandatory | Sample data |
| Trading Unit Type | String |  | No | Sole |
| Settlement Date | String |  | No | 2017-01-29 |
| Settlement Period | Int |  | No | 2 |
| Settlement Runtype | String |  | No | R2 |
| Trading Unit Name | String |  | No | BALGAN TRADING UNIT |
| Delivery Mode | String |  | No | Offtaking |
| Import Volume | String |  | No | 1111.111 |
| Export Volume | String |  | No | 2222.111 |
| Net Volume | String |  | No | 1111.000 |
| Active Flag | String |  | No | Y |

### Settlement Exchange Rate

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | SettlementExchangeRateService |
| **Operation Name** | Settlement ExchangeRateImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/EURGBFXDATA/V1?APIKey=<APIKey>&SettlementDayFrom=<SettlementDate>&SettlementDayTo=<SettlementDate>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Comments** | Default value (if none specified):  SettlementDayTo = SettlementDayFrom |

**API Web service – Request and Response format details:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| API Webservice – Request | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Sample data** |
| APIKey | String | - | Yes | AP8DA23 |
| Service Type | String | - | No | xml/csv/XML/CSV |
| Settlement Day From | String | - | Yes | 2019-02-01 |
| Settlement Day To | String | - | No | 2019-02-04 |
|  | | | | |
| API Webservice – Response | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Sample data** |
| Record Type | String | - | No | GBP\_EURO\_Settlement\_Exchange\_Rate\_Data |
| Settlement Day | String |  | No | 2019-02-01 |
| Settlement Exchange Rate | Decimal | - | No | 1.13987 |
| Date Time Received | DateTime | - | No | 2019-02-01 16:00:00 |

**CSV Download service**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “GBP EUR SETTLEMENT EXCHANGE RATE” |
| Settlement Day | String | - | No | YYYY-MM-DD | 2019-02-01 |
| Settlement Exchange Rate | Decimal | - | No | - | 1.13987 |
| Date Time Received | DateTime | - | No | YYYY-MM-DD HH:MM:SS | 2019-02-01 16:00:00 |

## Replacement Reserve Data

### RR Bid Data

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | RRBidDataService |
| **Operation Name** | RRBidDataImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/RRBidData/V1?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&BMUnitId=<BMUnitId>&BMUnitType=<BMUnit Type>&NGCBMUnitNAme=<NGCBMUnitName>&ParticipantId=<ParticipantId>& ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Comments** | Default value (if none specified):  SettlementPeriod = \*  BMUnitId = \*  BMUnitType = \*  NGCBMUnitType = \*  ParticipantId = \* |

**API Web service – Request and Response format details:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| API Webservice – Request | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Sample data** |
| APIKey | String | - | Yes | AP8DA23 |
| Service Type | String | - | No | xml/csv/XML/CSV |
| Settlement Date | String | - | Yes | 2019-02-19 |
| Settlement Period | Integer | - | No | 1 |
| BM Unit Id | String | - | No | BMU1 |
| BM Unit Type | String | - | No | TYPE1 |
| NGC BM Unit Name | String | - | No | NGCBMU1 |
| Participant Id | String | - | No | PARTY1 |
|  | | | | |
| API Webservice -- Response | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Sample data** |
| Record Type | String | - | No | RRBD |
| BM Unit Id | String | - | No | BMU1 |
| BM Unit Type | String | - | No | TYPE1 |
| NGC BM Unit Name | String | - | No | NGCBMU1 |
| Participant Id | String | - | No | PARTY1 |
| Time Series Id | String | - | No | NGET-RR1 |
| Settlement Date | String | - | No | 2019-02-19 |
| Settlement Period | Integer | - | No | 1 |
| Quarter Hour Period | Integer | - | No | 1 |
| RR Associated TSO | String | - | No | TSO1 |
| RR Market Balance Area | String | - | No | Area1 |
| RR Divisible | String | - | No | A01 |
| RR Linking Bid Id | String | - | No | LINKING1 |
| RR Multipart Bid Id | String | - | No | MULTIPART1 |
| RR Exclusive Bid Id | String | - | No | EXCLUSIVE1 |
| RR Flow Direction | String | - | No | A01 |
| RR Minimum Quantity | String | - | No | 1.234 |
| RR Quantity | String | - | No | 99.567 |
| RR Bid Resolution | String | - | No | PT15M |
| RR Position | String | - | No | 1 |
| RR Price (£/MWh) | String | - | No | 9.99999 |
| RR Status | String | - | No | A06 |

**CSV Download service**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “Reserve Bid Data” |
| BM Unit Id | String | - | No | - | BMU1 |
| BM Unit Type | String | - | No | - | TYPE1 |
| NGC BM Unit Name | String | - | No | - | NGCBMU1 |
| Participant Id | String | - | No | - | PARTY1 |
| Time Series Id | String | - | No | - | NGET-RR1 |
| Settlement Date | String | - | No | YYYYMMDD | 20190219 |
| Settlement Period | Integer | - | No | - | 1 |
| Quarter Hour Period | Integer | - | No | - | 1 |
| RR Associated TSO | String | - | No | - | TSO1 |
| RR Market Balance Area | String | - | No | - | Area1 |
| RR Divisible | String | - | No | - | A01 |
| RR Linking Bid Id | String | - | No | - | LINKING1 |
| RR Multipart Bid Id | String | - | No | - | MULTIPART1 |
| RR Exclusive Bid Id | String | - | No | - | EXCLUSIVE1 |
| RR Flow Direction | String | - | No | - | A01 |
| RR Minimum Quantity | String | - | No | - | 1.234 |
| RR Quantity | String | - | No | - | 99.567 |
| RR Bid Resolution | String | - | No | - | PT15M |
| RR Position | String | - | No | - | 1 |
| RR Price (£/MWh) | String | - | No | - | 9.99999 |
| RR Status | String | - | No | - | A06 |

### RR Aggregated Information Data

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | RRAggregatedInformationDataService |
| **Operation Name** | RRAggregatedInformationDataImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/RRAggregatedInfo/V1?APIKey=<APIKey>&DateTimeFrom=<DateTime>&DateTimeTo=<DateTime>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Comments** | Default value (if none specified):  DateTimeTo = DateTimeFrom + 1 hour |

**API Web service – Request and Response format details:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| API Webservice – Request | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Sample data** |
| APIKey | String | - | Yes | AP8DA23 |
| Service Type | String | - | No | xml/csv/XML/CSV |
| Date Time From | DateTime | - | Yes | 2019-02-28 11:00:00 |
| Date Time To | DateTime | - | No | 2019-02-28 12:00:00 |
|  | | | | |
| API Webservice – Response | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Sample data** |
| Record Type | String | - | No | RRAGGINGO |
| Auction Period Start | DateTime |  | No | 2019-02-01 11:00:00 |
| Auction Period End | DateTime | - | No | 2019-02-01 12:00:00 |
| Total Volume of Offered Bids | String | - | No | 1234.567 |
| Total volume of Activated Bids | String | - | No | 2345.678 |
| Total Volume of Unavailable Bids | String | - | No | 3456.789 |

**CSV Download service**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “RRAGGINFO” |
| Auction Period Start | DateTime |  | No | YYYYMMDDHHMMSS | 20190228110000 |
| Auction Period End | DateTime | - | No | YYYYMMDDHHMMSS | 20190228120000 |
| Total Volume of Offered Bids | String | - | No | - | 1234.567 |
| Total Volume of Activated Bids | String | - | No | - | 2345.678 |
| Total Volume of Unavailable Bids | String | - | No | - | 3456.789 |

### RR Activation Data

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | RRActivationDataService |
| **Operation Name** | RRActivationDataImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/RRActivation/V1?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&BMUnitId=<BMUnitId>& ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Comments** | Default value (if none specified):  SettlementPeriod = \*  BM Unit Id = \* |

**API Web service – Request and Response format details:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| API Webservice – Request | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Sample data** |
| APIKey | String | - | Yes | AP8DA23 |
| Service Type | String | - | No | xml/csv/XML/CSV |
| Settlement Date | String | - | Yes | 2019-02-19 |
| Settlement Period | Integer | - | No | 1 |
| BM Unit Id | String | - | No | BMU1 |

API Webservice – Response

**Header Record:**

|  |  |
| --- | --- |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “RRRESULTS Data” |
| Settlement Date |  |
| Settlement Period |  |

**Body Record:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Sample data** |
| Record Type | String | - | No | Fixed string value “ACTIVATION” |
| Participant Id | String | - | No | PARTY1 |
| BM Unit Id | String | - | No | BMU1 |
| Settlement Date | Date | - | No | 2019-02-25 |
| Settlement Period | Integer | - | No | 25 |
| Quarter Hour Period | Integer | - | No | 1 |
| Type | String | - | No | B74 |
| Flow Direction | String | - | No | UP |
| Activated Quantity (MW) | Double | - | No | 100 |
| Activation Price (£/MWh) | Double | - | No | 9.99 |
| Time Series Id | String | - | No | BMRA\_RRBS\_2019052909000001 |

**CSV Download service**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed String Value “RR RESULTS DATA ACTIVATION” |
| Participant Id | String | - | No | - | PARTY1 |
| BM Unit Id | String | - | No | - | BMU1 |
| Settlement Date | Date | - | No | YYYYMMDD | 20190225 |
| Settlement Period | Integer | - | No | - | 25 |
| Quarter Hour Period | Integer | - | No | - | 1 |
| Type | String | - | No | - | B74 |
| Flow Direction | String | - | No | - | UP |
| Activated Quantity (MW) | Double | - | No | - | 100 |
| Activation Price (£/MWh) | Double | - | No | - | 9.99 |
| Time Series Id | String | - | No | - | BMRA\_RRBS\_2019052909000001 |

### RR Interconnector Schedule

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | RRInterconnectorScheduleDataService |
| **Operation Name** | RRInterconnectorScheduleDataImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/RRINTCON/V1?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&InterconnectorId=<InterconnectorId>& ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Comments** | Default value (if none specified):  SettlementPeriod = \*  Interconnector Id = \* |

**API Web service – Request and Response format details:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| API Webservice – Request | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Sample data** |
| APIKey | String | - | Yes | AP8DA23 |
| Service Type | String | - | No | xml/csv/XML/CSV |
| Settlement Date | String | - | Yes | 2019-02-19 |
| Settlement Period | Integer | - | No | 1 |
| Interconnector Id | String | - | No | INTFR |

API Webservice – Response

**Header Record:**

|  |  |
| --- | --- |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “RRRESULTS Data” |
| Settlement Date |  |
| Settlement Period |  |

**Body Record:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Sample data** |
| Record Type | String | - | No | Fixed string value “INTERCONN” |
| Interconnector Id | String | - | No | INTFR |
| Settlement Date | Date | - | No | 2019-02-25 |
| Settlement Period | Integer | - | No | 25 |
| Quarter Hour Period | Integer | - | No | 1 |
| Type | String | - | No | A05 |
| Flow Direction | String | - | No | UP |
| Activated Quantity (MW) | Double | - | No | 100 |

**CSV Download service**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed String Value “RRRESULTSDATA INTERCONN” |
| Interconnector Id | String | - | No | - | INTFR |
| Settlement Date | Date | - | No | YYYYMMDD | 20190225 |
| Settlement Period | Integer | - | No | - | 25 |
| Quarter Hour Period | Integer | - | No | - | 1 |
| Type | String | - | No | - | A05 |
| Flow Direction | String | - | No | - | UP |
| Activated Quantity (MW) | Double | - | No | - | 100 |

### RR GB Need Met

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | RRGBNeedMetDataService |
| **Operation Name** | RRGBNeedMetDataImpl |
| **Method** | GET |
| **Input URL** | https://api.bmreports.com/RRGBNM/V1?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>& ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Comments** | Default value (if none specified):  SettlementPeriod = \* |

**API Web service – Request and Response format details:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| API Webservice – Request | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Sample data** |
| APIKey | String | - | Yes | AP8DA23 |
| Service Type | String | - | No | xml/csv/XML/CSV |
| Settlement Date | String | - | Yes | 2019-02-19 |
| Settlement Period | Integer | - | No | 1 |

API Webservice – Response

**Header Record:**

|  |  |
| --- | --- |
| **Report Output Field Mapping** | **Condition** |
| Record Type | Fixed string value “HDR” |
| File Type | Fixed string value “RRRESULTS Data” |
| Settlement Date |  |
| Settlement Period |  |

**Body Record:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Sample data** |
| Record Type | String | - | No | Fixed string value “GBNM” |
| Settlement Date | Date | - | No | 2019-02-25 |
| Settlement Period | Integer | - | No | 25 |
| Quarter Hour Period | Integer | - | No | 1 |
| Type | String | - | No | B75 |
| Flow Direction | String | - | No | UP |
| Activated Quantity (MW) | Double | - | No | 100 |
| Activation Price (£/MWh) | Double | - | No | 9.99 |

**CSV Download Service**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Sample data** |
| Record Type | String | - | No | Fixed string value “RRRESULTS DATA GBNM” |
| Settlement Date | Date | - | No | 2019-02-25 |
| Settlement Period | Integer | - | No | 25 |
| Quarter Hour Period | Integer | - | No | 1 |
| Type | String | - | No | B75 |
| Flow Direction | String | - | No | UP |
| Activated Quantity (MW) | Double | - | No | 100 |
| Activation Price (£/MWh) | Double | - | No | 9.99 |

### RR Indicative Cashflow

**API service details for the flow is as follows**

|  |  |
| --- | --- |
| **Service Name** | RRIndicativeCashflowService |
| **Operation Name** | RRIndicativeCashflowImpl |
| **Method** | GET |
| **Input URL** | <https://api.bmreports.com/ICCR/V1?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&LeadParty> Name=<LeadPartyName>&BMUnitType=<BMUnitType>&NGCBMUnitId=<NGCBMUnitId>&BMUnitId=<BMUnitId>&ServiceType=<xml/XML/csv/CSV> |
| **Output Format** | XML/CSV |
| **Comments** | Default value (if none specified):  SettlementPeriod = \*  LeadPartyName = \*  BMUnitType =\*  NGCBMUnitId =\*  BMUnitId = \* |

**API Web service – Request and Response format details:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| API Webservice – Request | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Sample data** |
| APIKey | String | - | Yes | AP8DA23 |
| Service Type | String | - | No | xml/csv/XML/CSV |
| Settlement Date | Date | - | Yes | 2019-02-28 |
| Settlement Period | Integer | - | No | 1 |
| BM Unit Id | String | - | No | BMU1 |
|  | | | | |
| API Webservice – Response | | | | |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **Sample data** |
| Record Type | String | - | No | ICCR |
| BM Unit Id | String | - | No | BMU1 |
| Settlement Date | String | - | No | 2019-02-28 |
| Settlement Period | Integer | - | No | 1 |
| Quarter Hour Period | Integer | - | No | 1 |
| Quarter Hour RR Activated Quantity | String | - | No | 100 |
| Quarter Hour RR Activated Volume | String | - | No | 25 |
| RR Activation Price | Double | - | No | 9.99 |
| Quarter Hour RR Cashflow | String | - | No | 249.75 |
| Period RR BM Unit Cashflow | String | - | No | 474.53 |

**CSV Download service**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| **Logical Field Name** | **Field Type** | **Remarks** | **Mandatory** | **CSV Format** | **Sample data** |
| Record Type | String | - | No | - | Fixed string value “ICCR” |
| BM Unit Id | String | - | No | - | BM Unit Id |
| Settlement Date | String | - | No | YYYYMMDD | 20190228 |
| Settlement Period | Integer | - | No | - | 1 |
| Quarter Hour Period | Integer | - | No | - | 1 |
| Quarter Hour RR Activated Quantity | String | - | No | - | 100 |
| Quarter Hour RR Activated Volume | String | - | No | - | 25 |
| RR Activation Price | Double | - | No | - | 9.99 |
| Quarter Hour RR Cashflow | String | - | No | - | 249.75 |
| Period RR BM Unit Cashflow | String | - | No | - | 474.53 |

Data Push Service

# Data Push Service

BMRS contains a new capability that allows the near real-time publishing of information from the BMRS system to industry participants. This section explains how participants can connect to this service and describes the information available.

# Connectivity

The BMRS Data Push Service supports a variety of Cross Language Clients and Protocols from Java, C, C++, C#, Ruby, Perl, Python, PHP to name a few. We also support several protocols for communication to the BMRS Data Push Service. These are as follows:

|  |  |
| --- | --- |
| Protocol | Brief description |
| **OpenWire** | OpenWire is the default cross language wire protocol that is supported by the BMRS Data Push Service. |
| **Stomp** | The BMRS Data Push Service implements version 1.1 of the STOMP wire protocol. STOMP is the Simple (or Streaming) Text Orientated Messaging Protocol. STOMP provides an interoperable wire format so that STOMP clients can communicate with any STOMP message broker to provide easy and widespread messaging interoperability among many languages, platforms and brokers. |
| **AMQP** | The BMRS Data Push Service implements version 1.0 of the OASIS AMQP TC protocol. The OASIS AMQP TC advances a vendor-neutral and platform-agnostic protocol that offers organizations an easier; more secure approach to passing real-time data streams and business transactions. The goal of AMQP is to ensure information is safely and efficiently transported between applications, among organizations, across distributed cloud computing environments, and within mobile infrastructures. AMQP avoids proprietary technologies, offering the potential to lower the cost of enterprise middleware software integrations through open interoperability. By enabling a commoditized, multi-vendor ecosystem, AMQP seeks to create opportunities for transforming the way business is done in the Cloud and over the Internet. |

# Topology

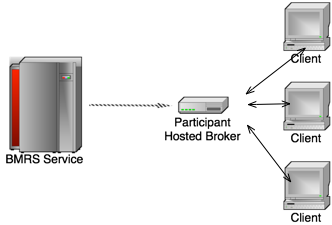
The BMRS Data Push Service allows two different approaches for the receipt of the messages. Depending upon the number of client’s that require the receipt of these messages within a participant’s organisation would determine the approach to use.

## Client direct connection



In this mode, each client will connect to the BMRS Data Push service and receive messages as they are published. This approach is advised if the participant wishes to connect only one or two clients to the BMRS Data Push Service due to the amount of traffic replicated over the Internet to each client. Due to the nature of the messages being delivered there may be a slight delay between each client receiving the message.

## Participant hosted broker



If a participant wishes to connect several clients to the BMRS Data Push Service it is the recommendation for that participant to host their own broker. This would mean that only one instance of the message is transmitted over the Internet to the participant’s network thus reducing traffic or latency.

The participant’s clients would then connect over the participant’s local LAN to the participant’s broker to receive the messages. This approach provides the participant with the quickest approach for messages to be delivered to multiple clients.

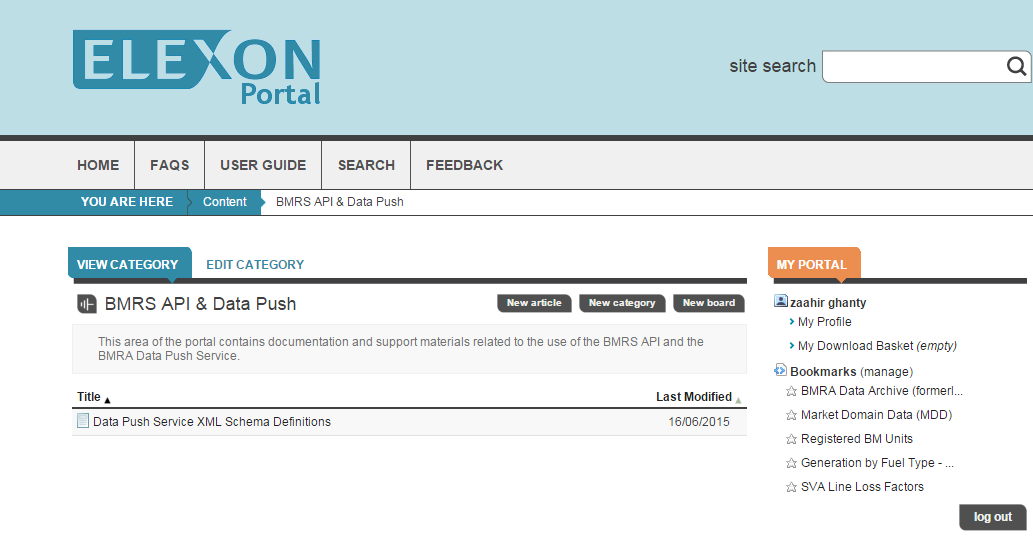
## Protocol Connection Strings

Here are some examples of protocol connection strings for connectivity to the data push service

|  |  |
| --- | --- |
| Protocol | Sample URL |
| OpenWire over TCP | ssl://<host>:61616 |
| OpenWire over HTTPS | https://<host>:61617 |
| Stomp | stomp+ssl://<host>:61613 |
| AMQP | amqp+ssl://<host>:5672 |

## Push Data XSDs

The XSDs for the push data service can be found on the ELEXON Portal in the “BMRS API & Data Push” Folder as shown below.



## Data Push Service – Summary Data Set

The list of data available via the data push service is listed in the table below.

### **Data Push – Message Types**

|  |  |  |  |
| --- | --- | --- | --- |
| Interface ID | Data flow type | Data Items | Date set IDD ref |
| BMRA-I004 | Balancing Mechanism Data | Bid-Offer Acceptance Level Flagged Data | BOALF |
| BMRA-I004 | Balancing Mechanism Data | Bid-Offer Data | BOD |
| BMRA-I004 | Balancing Mechanism Data | Maximum Delivery Period | MDP |
| BMRA-I004 | Balancing Mechanism Data | Maximum Delivery Volume | MDV |
| BMRA-I004 | Balancing Mechanism Data | Maximum Export Limit | MEL, MELS |
| BMRA-I004 | Balancing Mechanism Data | Maximum Import Limit | MIL, MILS |
| BMRA-I004 | Balancing Mechanism Data | Minimum Non-Zero Time | MNZT |
| BMRA-I004 | Balancing Mechanism Data | Minimum Zero Time | MZT |
| BMRA-I004 | Balancing Mechanism Data | Notice to Deviate from Zero | NDZ |
| BMRA-I004 | Balancing Mechanism Data | Notice to Deliver Bids | NTB |
| BMRA-I004 | Balancing Mechanism Data | Notice to Deliver Offers | NTO |
| BMRA-I004 | Balancing Mechanism Data | Point FPN Data | PN, FPN |
| BMRA-I004 | Balancing Mechanism Data | Applicable Balancing Services Volume Data | QAS |
| BMRA-I004 | Balancing Mechanism Data | Point Quiescent FPN Data | QPN |
| BMRA-I004 | Balancing Mechanism Data | Run Down Rates Export | RDRE |
| BMRA-I004 | Balancing Mechanism Data | Run Down Rates Import | RDRI |
| BMRA-I004 | Balancing Mechanism Data | Run Up Rates Export | RURE |
| BMRA-I004 | Balancing Mechanism Data | Run Up Rates Import | RURI |
| BMRA-I004 | Balancing Mechanism Data | Stable Export Limit | SEL |
| BMRA-I004 | Balancing Mechanism Data | Stable Import Limit | SIL |
| BMRA-I005 | System Related Data | Balancing Services Adjustment Action ID (unique for Settlement Period),  Balancing Services Adjustment Action Cost (£),  Balancing Services Adjustment Action Volume (MWh), Balancing Services Adjustment Action SO-Flag (T/F) | DISBSAD |
| BMRA-I005 | System Related Data | National Output Usable by Fuel Type, 2-14 Day | FOU2T14D |
| BMRA-I005 | System Related Data | National Output Usable by Fuel Type, 2-52 Week | FOU2T52W |
| BMRA-I005 | System Related Data | Realtime Transmission System Frequency Data | FREQ |
| BMRA-I005 | System Related Data | Half Hourly Generation By Fuel Type | FUELHH |
| BMRA-I005 | System Related Data | Instantaneous Generation By Fuel Type | FUELINST |
| BMRA-I005 | System Related Data | Indicated Imbalance | IMBALNGC |
| BMRA-I005 | System Related Data | Sum of PN Demand (MW), (Indicated Demand) | INDDEM |
| BMRA-I005 | System Related Data | Sum of PN Generation (MW), (Indicated Generation) | INDGEN |
| BMRA-I005 | System Related Data | Initial National Demand Out-Turn | INDO |
| BMRA-I005 | System Related Data | Outturn Volume (MWh), Normal Volume (MWh), High Volume (MWh), Low Volume (MWh) | INDOD |
| BMRA-I005 | System Related Data | Initial Transmission System Demand Out-Turn | ITSDO |
| BMRA-I005 | System Related Data | Indicated Margin | MELNGC |
| BMRA-I005 | System Related Data | Market Index Price, Market Index Volume | MID |
| BMRA-I005 | System Related Data | Missing Market Index Data Messages | Missing MID |
| BMRA-I005 | System Related Data | National Demand Forecast | NDF |
| BMRA-I005 | System Related Data | National Demand Forecast Day, 2-14 Day | NDFD |
| BMRA-I005 | System Related Data | National Demand Forecast Week, 2-52 Week | NDFW |
| BMRA-I005 | System Related Data | Net Energy Buy Price Cost Adjustment (EBCA) (£),  Net Energy Buy Price Volume Adjustment (EBVA) (MWh), Net System Buy Price Volume Adjustment (SBVA) (MWh), Buy Price Price Adjustment (BPA) (£/MWh), Net Energy Sell Price Cost Adjustment (ESCA) (£),Net Energy Sell Price Volume Adjustment (ESVA) (MWh), Net System Sell Price Volume Adjustment (SSVA) (MWh), Sell Price Price Adjustment (SPA) (£/MWh) | NETBSAD |
| BMRA-I005 | System Related Data | Non-BM STOR Out-Turn | NONBM |
| BMRA-I005 | System Related Data | National Surplus Forecast, 2-14 Day | OCNMFD |
| BMRA-I005 | System Related Data | Generating Plant Demand Margin, 2-14 Days | OCNMFD2 |
| BMRA-I005 | System Related Data | National Surplus Forecast, 2-52 Week | OCNMFW |
| BMRA-I005 | System Related Data | Generating Plant Demand Margin, 2-52 Weeks | OCNMFW2 |
| BMRA-I005 | System Related Data | SO-SO Prices | SO-SO |
| BMRA-I005 | System Related Data | System Message | SYSMSG |
| BMRA-I005 | System Related Data | System Zone Map | System Zone Map |
| BMRA-I005 | System Related Data | System Warnings | SYSWARN |
| BMRA-I005 | System Related Data | Outturn Temperature, Low Reference Temperature, Normal Reference Temperature, High Reference Temperature (all degrees Celsius) | TEMP, REFTEMP |
| BMRA-I005 | System Related Data | Transmission System Demand Forecast | TSDF |
| BMRA-I005 | System Related Data | Transmission System Demand Forecast Day, 2-14 Day | TSDFD |
| BMRA-I005 | System Related Data | Transmission System Demand Forecast Week, 2-52 Week | TSDFW |
| BMRA-I005 | System Related Data | National Output Usable by Fuel Type and BM Unit, 2-14 Day | UOU2T14D |
| BMRA-I005 | System Related Data | National Output Usable by Fuel Type and BM Unit, 2-52 Week | UOU2T52W |
| BMRA-I005 | System Related Data | Generation Forecast (MW), Total Registered Capacity (MW) | WINDFOR |
| BMRA-I006 | Derived Data | Period Bid and Offer Acceptance Volumes (QAB, QAO and CADL Flag) | BOAV |
| BMRA-I006 | Derived Data | Estimated Period BM Unit Total Accepted Bid and Offer Volume (QAB and QAO), Estimated Period BM Unit Tagged Accepted Bid and Offer Volume (QTAB and QTAO), Estimated Period BM Unit Repriced Accepted Bid and Offer Volume (QRAB and QRAO), Estimated Period BM Unit Originally-Priced Accepted Bid and Offer Volume (QOAB and QOAO) | DISPTAV |
| BMRA-I006 | Derived Data | Estimated Bid Offer Cash flows | EBOCF |
| BMRA-I006 | Derived Data | Index, Component Identifier, Acceptance Number, Bid-Offer Pair Number, CADL Flag (T/F), SO-Flag (T/F), Repriced Indicator (T/F), Volume (MWh), DMAT Adjusted Volume (MWh), Arbitrage Adjusted Volume (MWh), NIV Adjusted Volume (MWh), PAR Adjusted Volume (MWh), Final Price (£/MWh), Transmission Loss Multiplier, TLM Adjusted Volume (MWh), TLM Adjusted Cost (£) | ISPSTACK |
| BMRA-I006 | Derived Data | Estimated Period Balancing Mechanism Bid and Offer Cashflows (CB and CO) | PTAV |
| BMRA-I006 | Derived Data | Disaggregated Estimated Buy and Sell Price | DISEBSP |
| BMRA-I006 | Derived Data | Total Bid Volume and Total Offer Volume | TBOD |
| BMRA-I019 | Credit Default Notices | Credit Default Notices | CDN |
| BMRA-I037 | Replacement Reserve Data | Replacement Reserve Bid Data | RRBD |
| BMRA-I037 | Replacement Reserve Data | Indicative RR Bid and Offer Volumes | RRBOAV |
| BMRA-I037 | Replacement Reserve Data | Indicative RR Bid and Offer Acceptance Volumes | RRPTAV |
| BMRA-I037 | Replacement Reserve Data | Indicative RR Quarter Hour Cashflows | QRRC |
| BMRA-I037 | Replacement Reserve Data | Indicative RR Period Cashflows | PRRC |
| BMRA-I037 | Replacement Reserve Data | RR Activation Data | AD |
| BMRA-I037 | Replacement Reserve Data | GB Need Met | GBNM |
| BMRA-I037 | Replacement Reserve Data | Interconnector Schedule | IS |
| BMRA-I037 | Replacement Reserve Data | RR Aggregated Information | AGGINFO |

Please note: The Data Push Dataset also includes Transparency and REMIT data (B1610, B1720, etc)

### Field Type Index by Data Type

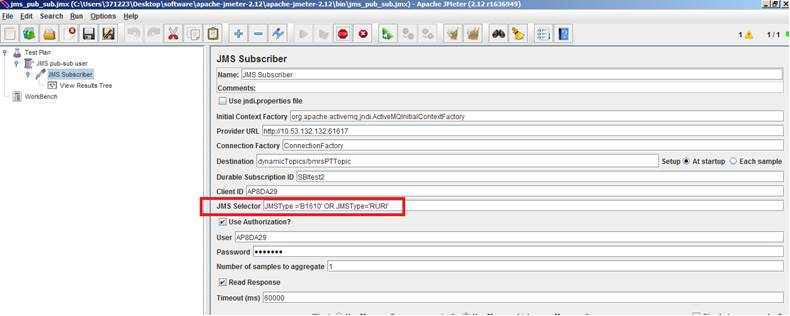
|  |  |
| --- | --- |
| Data Type | Field Type |
| Acceptance Level Value | VA |
| Acceptance Number | NK |
| Acceptance Time | TA |
| Adjustment Cost | JC |
| Adjustment Identifier | AI |
| Adjustment Volume | JV |
| Affected LDSO | DS |
| Amendment Flag | AM |
| Applicable Balancing Services Volume | SV |
| Arbitrage Adjusted Volume | AV |
| Bid Cashflow | BC |
| Bid Price | BP |
| Bid Volume | BV |
| Bid/Offer Indicator | BO |
| Bid-Offer Level Value | VB |
| Bid-Offer Original Price | UP |
| Bid-Offer Pair Number | NN |
| BMRS Informational Text | IN |
| BSAD Defaulted | BD |
| Buy Price | PB |
| Buy Price Cost Adjustment | A4 |
| Buy Price Price Adjustment | A6 |
| Buy Price Volume Adjustment | A5 |
| CADL Flag | CF |
| Calendar Week Number | WN |
| Calendar Year | CY |
| Cleared Default Settlement Date | CD |
| Cleared Default Settlement Period | CP |
| Component Identifier | CI |
| Contract Identification | IC |
| Credit Default Level | DL |
| Deemed Bid-Offer Flag | AD |
| Demand Control Event Flag | EV |
| Demand Control ID | ID |
| Demand Control Level | VO |
| Demand Margin | DM |
| Demand Value | VD |
| DMAT Adjusted Volume | DA |
| Effective From Time | TE |
| Energy Volume Daily High Reference | EH |
| Energy Volume Daily Low Reference | EL |
| Energy Volume Daily Normal Reference | EN |
| Energy Volume Outturn | EO |
| Entered Default Settlement Date | ED |
| Entered Default Settlement Period | EP |
| Export Level Value | VE |
| Fuel Type | FT |
| Fuel Type Generation | FG |
| GB Noon Temperature Outturn | TO |
| GB Reference High Noon Temperature | TH |
| GB Reference Low Noon Temperature | TL |
| GB Reference Normal Noon Temperature | TN |
| Generation Value | VG |
| Imbalance Value | VI |
| Import Level Value | VF |
| Indicative Net Imbalance Volume | NI |
| Instruction Sequence No | SQ |
| Margin/Surplus Value | VM |
| Market Index Data Provider ID | MI |
| Market Index Price | M1 |
| Market Index Volume | M2 |
| Maximum Delivery Period | DP |
| Maximum Delivery Volume | DV |
| Message Type | MT |
| Minimum non-Zero Time | MN |
| Minimum Zero Time | MZ |
| Net Energy Buy Price Cost Adjustment | A9 |
| Net Energy Buy Price Volume Adjustment | A10 |
| Net Energy Sell Price Cost Adjustment | A7 |
| Net Energy Sell Price Volume Adjustment | A8 |
| Net System Buy Price Volume Adjustment | A12 |
| Net System Sell Price Volume Adjustment | A11 |
| NIV Adjusted Volume | NV |
| Non-BM STOR Volume | NB |
| Notice to Deliver Bids | DB |
| Notice to Deliver Offers | DO |
| Notice to Deviate from Zero | DZ |
| Number of Records | NR |
| Number Of Spot Points | NP |
| Offer Cashflow | OC |
| Offer Price | OP |
| Offer Volume | OV |
| Output Usable | OU |
| PAR Adjusted Volume | PV |
| Party Id | PI |
| Period Originally-Priced BM Unit Bid Volume | P6 |
| Period Originally-Priced BM Unit Offer Volume | P3 |
| Period Repriced BM Unit Bid Volume | P5 |
| Period Repriced BM Unit Offer Volume | P2 |
| Period Tagged BM Unit Bid Volume | P4 |
| Period Tagged BM Unit Offer Volume | P1 |
| PN Level Value | VP |
| Price Derivation Code | PD |
| Publishing Time | TP |
| Replacement Price | RP |
| Replacement Price Calculation Volume | RV |
| Repriced Indicator | RI |
| Reserve Scarcity Price | RSP |
| RR Accepted Bid Volume | BV |
| RR Accepted Offer Volume | OV |
| RR Associated TSO | AT |
| RR Auction Period End | AE |
| RR Auction Period Start | AS |
| RR Bid Resolution | BR |
| RR Business Type | TY |
| RR Cashflow | CR |
| RR Divisible | DI |
| RR Exclusive Bid Id | EB |
| RR Flow Direction | FD |
| RR Instruction Flag | RN |
| RR Interconnector Identifier | IN |
| RR Linking Bid Id | LB |
| RR Market Balance Area | BA |
| RR Maximum Quantity | QX |
| RR Multipart Bid Id | MB |
| RR Position | PO |
| RR Price | PR |
| RR Quantity | QI |
| RR Quarter Hour Period | QP |
| RR Schedule Flag | SC |
| RR Status | RS |
| Run Down Elbow 2 | RB |
| Run Down Elbow 3 | RC |
| Run Down Rate 1 | R1 |
| Run Down Rate 2 | R2 |
| Run Down Rate 3 | R3 |
| Run Up Elbow 2 | UB |
| Run Up Elbow 3 | UC |
| Run Up Rate 1 | U1 |
| Run Up Rate 2 | U2 |
| Run Up Rate 3 | U3 |
| Sell Price | PS |
| Sell Price Cost Adjustment | A1 |
| Sell Price Price Adjustment | A3 |
| Sell Price Volume Adjustment | A2 |
| Sequence Number | SN |
| Settlement Date | SD |
| Settlement Period | SP |
| Short Acceptance Flag | SA |
| SO-Flag | SO |
| SO-SO Start Time | ST |
| SO-SO Trade Type | TT |
| Spot Time | TS |
| Stable Export Limit | SE |
| Stable Import Limit | SI |
| Stack Item Final Price | FP |
| Stack Item Original Price | IP |
| Stack Item Volume | IV |
| STOR Provider Flag | PF |
| System Frequency | SF |
| System Message Text | SM |
| System Total Priced Accepted Bid Volume | PC |
| System Total Priced Accepted Offer Volume | PP |
| System Total Unpriced Accepted Bid Volume | AC |
| System Total Unpriced Accepted Offer Volume | AP |
| System Warning Text | SW |
| Tagged Accepted Bid Volume | T2 |
| Tagged Accepted Offer Volume | T1 |
| Tagged Adjustment Buy Volume | J4 |
| Tagged Adjustment Sell Volume | J3 |
| Time From | TF |
| Time To | TI |
| TLM Adjusted Cost | TC |
| TLM Adjusted Volume | TV |
| Total Accepted Bid Volume | AB |
| Total Accepted Offer Volume | AO |
| Total Adjustment Buy Volume | J2 |
| Total Adjustment Sell Volume | J1 |
| Total Bid Volume | BT |
| Total Offer Volume | OT |
| Total Registered Capacity | TR |
| Total Volume of Activated Bids | TA |
| Total Volume of Offered Bids | TO |
| Total Volume of Unavailable Bids | TU |
| Trade Direction | TD |
| Trade Price | PT |
| Trade Quantity | TQ |
| Transmission Loss Multiplier | TM |
| Week Start Date | WD |
| Zone Indicator | ZI |

**Please note:** The Data Push Service data content is based on the **TIBCO Service** and for further guidance on the data items and field types please refer to the NETA Interface Definition and Design (IDD): Part 1.

## Filter by Message types

The Data Push Service allows you to filter by message type. JMS selectors can be used to filter the received messages based on a given data item. The different flows have been assigned a unique JMSType (see the table below) and hence to filter on specific flows please use this field. The implementation of the filter depends on the participant side message consumer technology, however the syntax will be standards based as follows https://docs.oracle.com/cd/E19798-01/821-1841/bncer/index.html

Examples of the implementing a filter using the apache JMeter client are as follows:



# Data Push and API checklist

Below are the major points of information you will need to be able to use either the RESTful or the Push Data service.

## RESTful

**URL**: This is the address of the RESTful service you are accessing. The default for the ELEXON live service is https://api.bmreports.co.uk/BMRS.

**APIKey**: This is provided through the ELEXON portal. You need to register with the portal prior to the use of the API services.

**Client**: This can be a web browser or a custom piece of code.

## Push Data Service

**URL**: This is the address of the RESTful service you are accessing. The default for the ELEXON live service is https://api.bmreports.co.uk:<PROTOCOL\_PORT>.

**APIKey**: This is provided through the ELEXON portal. You need to register with the portal prior to the use of the API services.

**Protocol and API:** A protocol is the language that is spoken between the push data service and your client. The ELEXON Push Data Service supports several protocols documented earlier in this guide. You will need to select a protocol and the supporting library (ELEXON do not provide these) for your environment.

**Client**: You will need a client that receives the information through your chosen protocol and library. This client will most likely be a custom piece of code for your environment that will receive the message from the ELEXON push data service and then process it for your organisation.

## Other Considerations

The broker is ActiveMQ 5.10.0

* The broker address is api.bmreports.com (for production), testapi.bmreports.com (for testing)
* The port varies depending on the chosen protocol – see section **8.3.**
* The method of establishing a durable connection varies depending on the protocol – see the ActiveMQ website for details
* Regardless of chosen protocol, your scripting key should be passed as both username and password – see your profile page of the ELEXON Portal
* The topic is /topic/bmrsTopic
* No particular approach is recommended, but Java examples are provided in the Appendix of this document

Appendices

# Appendix A – Example Source Code RESTFul Service

## Java

The following code demonstrates calling the RESTFul service using standard Java API.

import java.io.BufferedReader;

import java.io.IOException;

import java.io.InputStreamReader;

import java.net.HttpURLConnection;

import java.net.MalformedURLException;

import java.net.URL;

/\*\*

\*

\* @author stephen

\*/

public class BMRSGet {

private static final String ELEXON\_PORTAL\_KEY = "YOUR API KEY HERE";

public static void main(String[] args) {

try {

URL url = new URL("https://testapi.bmreports.com/BMRS/MessageListRetrieval/V1?ServiceType=XML&APIKey=" + ELEXON\_PORTAL\_KEY + "&EventStart=2014-01-01&EventEnd=2014-01-02");

HttpURLConnection conn = (HttpURLConnection) url.openConnection();

conn.setRequestMethod("GET");

conn.setRequestProperty("Accept", "application/xml");

if (conn.getResponseCode() != 200) {

throw new RuntimeException("Failed : HTTP error code : "

+ conn.getResponseCode());

}

BufferedReader br = new BufferedReader(new InputStreamReader(

(conn.getInputStream())));

String output;

System.out.println("Output from Server .... \n");

while ((output = br.readLine()) != null) {

System.out.println(output);

}

conn.disconnect();

} catch (MalformedURLException e) {

e.printStackTrace();

} catch (IOException e) {

e.printStackTrace();

}

}

}

## Python

The following code is written in python and demonstrates calling the Elexon RESTFul API. Please note that you need to replace the **YOUR\_API\_KEY\_HERE** with the key from the Elexon portal.

#! /usr/bin/env python

import httplib2

# These aren't needed, just for this example

from pprint import pformat

def post\_elexon(url):

http\_obj = httplib2.Http()

resp, content = http\_obj.request(

uri=url,

method='GET',

headers={'Content-Type': 'application/xml; charset=UTF-8'},

)

print '===Response==='

print pformat(resp)

print '===Content==='

print pformat(content)

print '===Finished==='

def main():

post\_elexon(

url='https://api.bmreports.com/BMRS/B1770/v1?APIKey=YOUR\_API\_KEY\_HERE&SettlementDate=2015-03-01&Period=1&ServiceType=xml',

)

if \_\_name\_\_ == "\_\_main\_\_":

main()

# Appendix B – Example Push Data Service Source Code

## Java – onMessage example

import java.io.FileWriter;

import java.io.PrintWriter;

import javax.jms.Connection;

import javax.jms.ConnectionFactory;

import javax.jms.JMSException;

import javax.jms.MessageConsumer;

import javax.jms.MessageListener;

import javax.jms.Session;

import javax.jms.Topic;

import org.apache.activemq.ActiveMQConnectionFactory;

import org.apache.activemq.command.ActiveMQTextMessage;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

/\*\*

\*

\* @author stephen

\*/

public class Subscriber {

// --- Start of connection details

private static final String URL = "ssl://api.bmreports.com:61616"; // This is the connection string to the ELEXON servers

private static final String APIKEY = "<YOUR API KEY GOES HERE>"; // This is your API key from the portal

private static final String CLIENTID = "<YOUR CLIENT ID GOES HERE>"; // This is a client name that needs to be unique (this you create)

private static final String TOPICNAME = "bmrsTopic"; // This is the topic name

private static final String SUBSCRIPTIONID = "<YOUR SUBSCRIPTION ID GOES HERE>"; // Each durable subscription needs an ID that is unique (this you create)

// --- End of connection details

private static final Logger LOGGER = LoggerFactory

.getLogger(Subscriber.class);

private Connection connection;

private Session session;

private MessageConsumer messageConsumer;

private static Subscriber subscriberPublishSubscribe;

/\*\*

\* Generic start point.

\*

\* @param args the command line arguments

\* @throws java.lang.Exception

\*/

public static void main(String[] args) throws Exception {

try {

// Setup and connect to the queue

subscriberPublishSubscribe = new Subscriber();

subscriberPublishSubscribe.create(URL, APIKEY, CLIENTID, TOPICNAME, SUBSCRIPTIONID);

} catch (Exception ex) {

LOGGER.error(ex.getLocalizedMessage());

if (subscriberPublishSubscribe != null) {

subscriberPublishSubscribe.closeConnection();

}

}

}

/\*\*

\* This is the method that initiates the connection and sets up the

\* JMSListener

\*

\* @param url - The server and connection protocol

\* @param apikey - the api key to connect with

\* @param clientId - Unique id for this client

\* @param topicName - The topic to listen to

\* @throws JMSException

\*/

public void create(String url, String apikey, String clientId, String topicName, String subId) throws JMSException {

// create a Connection Factory

ConnectionFactory factory = new ActiveMQConnectionFactory(apikey, apikey, url);

try {

// create a Connection

LOGGER.debug("Creating a connection");

connection = factory.createConnection();

connection.setClientID(clientId);

// create a Session

LOGGER.debug("Creating a session");

session = connection.createSession(false, Session.AUTO\_ACKNOWLEDGE);

// create the Topic from which messages will be received

LOGGER.debug("Creating the topic connection: " + topicName);

Topic topic = session.createTopic(topicName);

// Set up the message consumer

LOGGER.debug("Creating the consumer for: " + topicName);

//messageConsumer = session.createConsumer(topic);

messageConsumer = session.createDurableSubscriber(topic, subId);

// Create the listener.

LOGGER.debug("Setting up the listener");

JMSMessageListener listener = new JMSMessageListener();

messageConsumer.setMessageListener(listener);

// start the connection in order to receive messages

LOGGER.debug("Starting the connection");

connection.start();

} catch (JMSException exp) {

throw exp;

}

}

public void closeConnection() throws JMSException {

LOGGER.debug("Closing the connection");

connection.close();

}

/\*\*

\* This class implements a message listener for the ActiveMQ

\*/

class JMSMessageListener implements MessageListener {

@Override

public void onMessage(javax.jms.Message msg) {

try {

LOGGER.info(msg.toString());

ActiveMQTextMessage txtMessage = (ActiveMQTextMessage) msg;

LOGGER.info(txtMessage.getText());

try (PrintWriter out = new PrintWriter(new FileWriter(txtMessage.getJMSMessageID()))) {

out.print(txtMessage.getText());

}

} catch (Exception ex) {

LOGGER.error(ex.getLocalizedMessage());

}

}

}

}

## Java – Looping example

import javax.jms.Connection;

import javax.jms.ConnectionFactory;

import javax.jms.JMSException;

import javax.jms.Message;

import javax.jms.MessageConsumer;

import javax.jms.Session;

import javax.jms.TextMessage;

import javax.jms.Topic;

import javax.naming.NamingException;

import org.apache.activemq.ActiveMQConnectionFactory;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

/\*\*

\*

\* @author stephen

\*/

public class SubscriberRetry {

// --- Start of connection details

private static final String URL = "ssl://api.bmreports.com:61616"; // This is the connection string to the ELEXON servers

private static final String APIKEY = "<YOUR API KEY GOES HERE>"; // This is your API key from the portal

private static final String CLIENTID = "<YOUR CLIENT ID GOES HERE>"; // This is a client name that needs to be unique (this you create)

private static final String TOPICNAME = "bmrsTopic"; // This is the topic name

private static final String SUBSCRIPTIONID = "<YOUR SUBSCRIPTION ID GOES HERE>"; // Each durable subscription needs an ID that is unique (this you create)

// --- End of connection details

private static final Logger LOGGER = LoggerFactory

.getLogger(SubscriberRetry.class);

private static SubscriberRetry consumer;

private Connection connection;

private Session session;

private MessageConsumer messageConsumer;

private boolean transacted;

private boolean isRunning = false;

/\*\*

\* @param args the command line arguments

\* @throws java.lang.InterruptedException

\*/

public static void main(String[] args) throws InterruptedException {

int retryCount = 20000;

int count = 0;

consumer = new SubscriberRetry();

// This runs forever

while (count < retryCount) {

LOGGER.debug("Attempting connection. Count = " + count);

try {

consumer.run();

} catch (NamingException | JMSException ex) {

LOGGER.error(ex.getLocalizedMessage());

count++;

} finally {

LOGGER.debug("Shutting down");

}

Thread.sleep(1000);

}

}

public void run() throws NamingException, JMSException {

isRunning = true;

// create a Connection Factory

ConnectionFactory factory = new ActiveMQConnectionFactory(APIKEY, APIKEY, URL);

// create a Connection

LOGGER.debug("Creating a connection");

connection = factory.createConnection();

connection.setClientID(CLIENTID);

// create a Session

LOGGER.debug("Creating a session");

session = connection.createSession(transacted, Session.AUTO\_ACKNOWLEDGE);

// create the Topic from which messages will be received

LOGGER.debug("Creating the topic connection: " + TOPICNAME);

Topic topic = session.createTopic(TOPICNAME);

// Set up the message consumer

LOGGER.debug("Creating the consumer for: " + TOPICNAME);

messageConsumer = session.createDurableSubscriber(topic, SUBSCRIPTIONID);

// start the connection in order to receive messages

LOGGER.debug("Starting the connection");

connection.start();

while (isRunning) {

LOGGER.debug("Waiting for message...");

Message message = messageConsumer.receive(1000);

if (message != null && message instanceof TextMessage) {

TextMessage txtMsg = (TextMessage) message;

LOGGER.debug("Received: " + txtMsg.getText());

}

}

LOGGER.debug("Closing connection");

messageConsumer.close();

session.close();

connection.close();

## Python Example (Stomp)

The following example uses the stomp.py library – see https://github.com/jasonrbriggs/stomp.py

import stomp

import time

class MyListener(stomp.ConnectionListener):

def on\_error(self, headers, message):

print('received an error "%s"' % message)

def on\_message(self, headers, message):

for k,v in headers.iteritems():

print('header: key %s , value %s' %(k,v))

print('received a message "%s"' % message)

with open("messages.log", "a") as logfile:

logfile.write(message)

conn = stomp.Connection12(host\_and\_ports=[('api.bmreports.com', 61613)],use\_ssl=True)

conn.set\_listener('', MyListener())

conn.start()

conn.connect('YOUR API KEY HERE', 'YOUR API KEY HERE', True)

conn.subscribe(destination='/topic/bmrsTopic', ack='auto', id='CLIENT ID OF YOUR CHOICE HERE')

while conn.is\_connected():

time.sleep(1)

# Amendment History

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Author | Reason |
| Version 0.1 | 12 November 2014 | Zaahir Ghanty | First Draft for peer review |
| Version 0.2 | 12 December 2014 | Stephen J. Thompson | Brought into alignment with 0.6 of the API specification |
| Version 0.3 | 12 December 2014 | Zaahir Ghanty | Update following review |
| Version 0.4 | 28 April 2015 | Zaahir Ghanty/Stephen J. Thompson | Update to include REST API for Phase 2 & Data Push Service |
| Version 0.5 | 18 May 2015 | Zaahir Ghanty | Update following user feedback |
| Version 0.6 | 14 July 2015 | Stephen J. Thompson | Update of API request method from POST to GET |
| Version 0.7 | 24 July 2015 | Zaahir Ghanty/Stephen J. Thompson | Update of API URLs and Java examples for Data Push |
| Version 0.8 | 31 August 2015 | Stephen J. Thompson | Updated the RESTful examples to use the GET verb. Added a checklist for users |
| Version 0.9 | 22 January 2016 | Zaahir Ghanty | Updated to include REST API for Phase 3 and P305 Data |
| Version 0.10 | 22 April 2016 | Zaahir Ghanty | Updated following user feedback  Added message types for Data Push Service |
| Version 0.11 | 14 July 2016 | Zaahir Ghanty | Housekeeping updates |
| Version 0.12 | 17 October 2016 | Zaahir Ghanty | Housekeeping updates & Python working example for Data Push |
| Version 1.0 | 23 June 2017 | Zaahir Ghanty | Updates for June 2017 BSC System release (BSC Modifications P321[[1]](#footnote-1) and P329[[2]](#footnote-2)) |
| Version 1.1 | 30 October 2017 | Zaahir Ghanty | Updates for November 2017 BSC System Release (BSC Modification P336[[3]](#footnote-3))  Inclusion of BIOMASS in API responses for FUELINSTHHCUR, FUELINST, FUELHH, FOU2T14D, UOU2T14D, FOU2T52W, UOU2T52W. No changes to API URIs |
| Version 2.0 | 11 November 2018 | Stephen Francis | Updates for November 2018 BSC Systems Release (CP1503[[4]](#footnote-4) and CP1506[[5]](#footnote-5)) |
| Version 2.1 | 5 July 2019 | Stephen Francis | Updated B1610 API to Version 2 for improved reporting |
| Version 2.2 | 31 July 2019 | Stephen Francis | Housekeeping updates |
| Version 3.0 | Xx November 2019 | Stephen Francis | Updates for November 2019 BSC Systems Release (P344 TERRE and CP1517) |

1. Publication of Trading Unit Delivery Mode [↑](#footnote-ref-1)
2. Changes to REMIT inside information reporting [↑](#footnote-ref-2)
3. Fuel types on the BMRS [↑](#footnote-ref-3)
4. Changes to European Transparency Regulation Data [↑](#footnote-ref-4)
5. New Interconnector fuel type [↑](#footnote-ref-5)