Package 'ukgasapi'

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Title API for UK Energy Market Information

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Description Allows users to access live UK energy market information via various APIs.
Depends R (>= 3.0.0)
BugReports https://github.com/timothywong731/ukgasapi/issues
License GPL-2
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R topics documented:
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bmrsIndoItsdo

BMRS Initial Demand Outturn API Service

Description

This function connects to the Elexon's BMRS API to retrieve Initial Demand Outturn (INDO) and Initial Transmission System Demand Out-Turn (ITSDO) data. Internet connection must be available.

Usage

```
bmrsIndoItsdo(
  fromdate,
  todate,
  apikey,
  batchsize = 60,
  apiurl = "https://api.bmreports.com/BMRS/INDOITSDO/v1"
)
```

Arguments

fromdate A character object specifying the start date. Date is inclusive.

todate A character object specifying the end date. Date is inclusive.

apikey A character object specifying the API key. This is also known as scripting key

on Elexon's website.

batchsize An interger value indicating the batch size of each API call. (Number of days

included in one call)

apiurl A character object which points to the BMRS INDO/ITSDO API. Under most

circumstances users do not have to change this. Default to 'https://api.bmreports.com/BMRS/INDOITSD0

Details

The function submits a request to the API. The response is in CSV format which function will parse internally and returns a R dataframe object. The data returned by this API is identical to the data displayed on BMRS dashboard https://www.bmreports.com/bmrs/?q=demand/initialdemandoutturn.

Value

A dataframe object containing API response data.

Author(s)

Timothy Wong, <timothy.wong@hotmail.co.uk>

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References

• BMRS API and Data Push User Guide https://www.elexon.co.uk/documents/training-guidance/bsc-guidance-notes/bmrs-api-and-data-push

 Scripting Guide https://www.elexonportal.co.uk/scripting

• Initial Demand Outturn (INDO) https://www.bmreports.com/bmrs/?q=help/glossary#INDO

• Initial Transmission System Demand Out-Turn (ITSDO) https://www.bmreports.com/bmrs/?q=help/glossary#ITSDO

Examples

dataItemExplorer

Data Item Explorer API

Description

This function connects to the UK National Grid's API for Data Item Explorer, which is a major data source for gas-related information. Internet connection must be available.

Usage

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Arguments

dataitems A vector of characters containing data items to enquire via API.

A character object specifying the start date. Date is inclusive.

A character object specifying the end date. Date is inclusive.

A character object specifying the data type. Defaults to gasday

latestflag A character object with length of one to specify whether to extract the latest

data. This can either be Y or N. Defaults to Y.

applicableforflag

A character object with length of one to specify whether dates specified are 'applicable for' or 'applicable on'. This can either be Y or N where Y indicates

'applicable for'. Defaults to Y.

batchsize An interger value indicating the batch size of each API call. To invoke a single

API call, use zero or negative values.

apiurl A character object which points to National Grid's SOAP API. Under most cir-

cumstances users do not have to change this. Default to 'http://marketinformation.natgrid.co.uk/MIPIws-

public/public/publicwebservice.asmx'

Details

The function submits a request to the API using XML over SOAP protocol. The response is in XML format which function will parse internally and returns a R dataframe object.

Value

A dataframe object containing API response data.

Author(s)

Timothy Wong, <timothy.wong@hotmail.co.uk>

References

- Graphical User Interface for Data Item Explorer https://mip-prd-web.azurewebsites.net/DataItemExplorer
- · API specification

 $\label{lem:marketinformation.natgrid.co.uk/MIPIws-public/public/publicwebservice. as mx? op=GetPublicationDataWM$

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