Package ‘USgrid’

March 21, 2021

Type Package
Title The Demand and Supply for Electricity in the US
Version 0.1.2
Maintainer Rami Krispin <rami.krispin@gmail.com>
Description Provides a set of regular time-series datasets, describing the US electricity grid. That includes the total demand and supply, and as well as the demand by energy source (coal, solar, wind, etc.). Source: US Energy Information Administration (Dec 2019) <https://www.eia.gov/>.
License MIT + file LICENSE
Encoding UTF-8
LazyData true
Depends R (>= 3.0.2)
Imports tsibble(>= 0.8.5)
Suggests knitr, lubridate, rmarkdown, devtools, plotly, remotes, tidyr, testthat, usethis
URL https://github.com/RamiKrispin/USgrid
BugReports https://github.com/RamiKrispin/USgrid/issues
RoxygenNote 6.1.1
NeedsCompilation no
Author Rami Krispin [aut, cre]
Repository CRAN
Date/Publication 2021-03-21 15:50:22 UTC

R topics documented:

Cal_elec ................................................................. 2
US_elec ................................................................. 3
US_source ............................................................... 4

Index 5
Cal_elec

**Demand for California Independent System Operator (CISO)**

**Description**

The demand for electricity in California subregion since July 2018 by operator.

Units: megawatthours

Time zone: UTC

**Usage**

Cal_elec

**Format**

A tsibble object with hourly intervals

**Details**

The dataset contains the hourly demand for electricity in the California subregion (megawatthours). The 'operator' column describes the name of operator provider

**Source**

US Energy Information Administration (Dec 2019) [website](#)

**Examples**

data(Cal_elec)

library(plotly)

plot_ly(data = Cal_elec, 
        x = ~ date_time, 
        y = ~ series, 
        color = ~ operator, 
        type = "scatter", 
        mode = "lines")
Description

The total hourly demand and supply (generation) for electricity in the US since July 2015
Units: megawathours
Time zone: UTC

Usage

US_elec

Format

A tsibble object with hourly intervals

Details

The dataset contains the hourly demand and supply (generation) for electricity in the US (megawathours).
The 'type' column describes the type of the series (demand or generation)

Source

US Energy Information Administration (Dec 2019) website

Examples

data(US_elec)
library(plotly)
plot_ly(data = US_elec,
   x = ~ date_time,
   y = ~ series,
   color = ~ type,
   type = "scatter",
   mode = "lines")
The US Hourly Net Generation by Energy Source

Description
The net generation of electricity in the US by energy source (i.e., natural gas, coal, solar, etc.) since July 2018.
Units: megawatthours
Time zone: UTC

Usage
US_source

Format
A tsibble object with hourly intervals

Details
The dataset contains the hourly net generation of electricity in the US (megawatthours) by energy source. The ‘source’ column describes the type of the energy source.

Source
US Energy Information Administration (Dec 2019) website

Examples

data(US_source)

library(plotly)

plot_ly(data = US_source,
x = ~ date_time,
y = ~ series,
color = ~ source,
type = "scatter",
mode = "lines")
Index

* datasets
  Cal_elec, 2
  US_elec, 3
  US_source, 4

* time-series
  Cal_elec, 2
  US_elec, 3
  US_source, 4

Cal_elec, 2

US_elec, 3
US_source, 4