Package ‘USgrid’

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Type Package
Title The Demand and Supply for Electricity in the US
Version 0.1.0
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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/>.
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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 tibble 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**

```r
data(Cal_elec)

library(plotly)

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

The US Hourly Demand and Supply for Electricity

**Description**

The total hourly demand and supply (generation) for electricity in the US since July 2015

Units: megawatthours

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 (megawatthours). The 'type' column describes the type of the series (demand or generation)

**Source**

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

**Examples**

```r
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 tibble 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")
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