

# Package ‘USgrid’

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**Type** Package

**Title** The Demand and Supply for Electricity in the US

**Version** 0.1.0

**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, tidy, testthat, usethis

**URL** <https://github.com/RamiKrispin/USgrid>

**BugReports** <https://github.com/RamiKrispin/USgrid/issues>

**RoxygenNote** 6.1.1

**NeedsCompilation** no

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**Repository** CRAN

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Cal\_elec

*Demand for California Independent System Operator (CISO)*

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### 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")
```

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`US_elec`*The US Hourly Demand and Supply for Electricity*

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**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 tibble 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**

```
data(US_elec)

library(plotly)

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

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US\_source

*The US Hourly Net Generation by Energy Source*

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### 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")
```

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