Package: aimsir17 (via r-universe)

October 30, 2024

Title Irish Weather Observing Stations Hourly Records for 2017

Version 0.0.2

Description Named after the Irish name for weather, this package contains tidied data from the Irish Meteorological Service's hourly observations for 2017. In all, the data sets include observations from 25 weather stations, and also latitude and longitude coordinates for each weather station. Now includes energy generation data for Ireland and Northern Ireland (2017), including Wind Generation data.

License Creative Commons Attribution 4.0 International License

Copyright inst/COPYRIGHTS

Depends R (>= 2.10)

Suggests dplyr

Imports tibble

Encoding UTF-8

LazyData true

URL https://github.com/JimDuggan/aimsir17, https://www.met.ie,
http://www.eirgridgroup.com/how-the-grid-works/renewables/,
http://www.eirgridgroup.com/site-files/library/EirGrid/
SNSP-Formula-External-Publication.pdf

RoxygenNote 7.1.1

Repository https://jimduggan.r-universe.dev

RemoteUrl https://github.com/jimduggan/aimsir17

RemoteRef HEAD

RemoteSha 6d8061b90d4042048e8d1103ab939b1c2b9b63d2

Contents

---

eirgrid17	*EirGrid System Data Quarterly Hourly for 2017*

Description

EirGrid System Data Quarterly Hourly for 2017

Usage

    eirgrid17

Format

year Year of observation.

month Month of observation.

day Day of observation.

hour Hour of observation.

minute Minute of observation.

date Date and Time (utc).

NIGeneration Northern Ireland Generation.

NIDemand Northern Ireland Demand.

NIWindAvailability Northern Ireland Wind Availability.

NIWindGeneration Northern Ireland Wind Generation.

IEGeneration Republic of Ireland Generation.

IEDemand Republic of Ireland Demand.

IEWindAvailability Republic of Ireland Wind Availability.

NIWindGeneration Republic of Irekand Wind Generation.

SNSP System Non-Synchronous Penetration) is the sum of wind + solar generation + HVDC imports as a percentage of total demand + exports

Copyright EirGrid

Licence Statement This data is published under a Creative Commons Attribution 4.0 International (CC BY 4.0). https://creativecommons.org/licenses/by/4.0/

Disclaimer Disclaimer: Please note that the data contained herein is indicative as it is based on raw 15-minute SCADA readings which have yet to be quality controlled. EirGrid as the Transmission System Operator (TSO) for Ireland and SONI as the TSO for Northern Ireland make no warranties or representations of any kind with respect of this document, including, without limitation, its quality, accuracy and completeness. While every effort has been made in the compilation of this report to ensure that the information herein is correct, the TSOs do not accept liability for any loss or damage arising from the use of this document or any reliance on the information it contains. Use of this document and the information it contains is at the user's sole risk. In addition, the TSOs strongly recommend that any party wishing to make a decision based on the content of this document should consult the TSOs in advance.

Modifications New columns added to the data for Year, Month, Day, Hour and Minute. Columns representing GMT offset removed. The column date transformed to a 'POSIXct' type. Furthermore, note that: The system data in this report is is based on average 15-minute SCADA readings (MW). All figures represent net exported energy. Maximum/Minimum figures in the different jurisdictions do not necessarily occur at the same time. The maximum SNSP limit allowed on the system is 65 SNSP may exceed this maximum limit due to wind variations.

Source

http://www.eirgridgroup.com/how-the-grid-works/renewables/

---

observations	*Met Eireann - Weather Observing Stations Records 01-Jan-2017 to 31-Dec-2017*

Description

Met Eireann - Weather Observing Stations Records 01-Jan-2017 to 31-Dec-2017

Usage

```
observations
```

Format

date Date and Time (utc).

rain Precipitation Amount (mm).

temp Air Temperature (C)

wetb Wet Bulb Temperature (C)

dewpt Dew Point Temperature (C)

vappr Vapour Pressure (hPa)

rhum Relative Humidity %

msl Mean Sea Level Pressure (hPa)

wddir Predominant Wind Direction (deg)

Copyright Met Eireann

Licence Statement This data is published under a Creative Commons Attribution 4.0 International (CC BY 4.0). https://creativecommons.org/licenses/by/4.0/

Disclaimer Met Eireann does not accept any liability whatsoever for any error or omission in the data, their availability, or for any loss or damage arising from their use

Modifications New columns added to the data for Year, Month, Day and Hour. Columns representing indicators removed. The column date transformed to a 'POSIXct' type

Source

https://www.met.ie

| stations | *Summary of weather observing stations with observations* |

Description

Summary of weather observing stations with observations

Usage

```
stations
```

Format

station Name of the Weather Observing Station

height Height above sea level (M)

latitude Latitude of weather station

longitude Longitude of weather station

Copyright Met Eireann

Licence Statement This data is published under a Creative Commons Attribution 4.0 International (CC BY 4.0). https://creativecommons.org/licenses/by/4.0/

Disclaimer Met Eireann does not accept any liability whatsoever for any error or omission in the data, their availability, or for any loss or damage arising from their use #'

Modifications New columns added to the data for Year, Month, Day and Hour. All ind columns removed. Date formatted to R data object format using package lubridate

Source

https://www.met.ie

Index