Time Series for the Year 2016 at http://pfbach.dk/

Data from the ENTSO-E Transparency Platform

In my note from 16 December 2016, I have recommended the use of the ENTSO-E Transparency Platform, which is supposed to become a more correct and more complete source of data than my collection.

For my own use, I have downloaded 2016-data for several countries from the ENTSO-E Transparency Platform. Unfortunately, practical all the time series were incomplete. Therefore, I extended my data conversion software by a module for estimating missing data in order to minimize the manual work. Missing data within the same day are replaced by linear interpolations. When complete days (24 hours) are missing, I have manually inserted data from a similar day.

The time resolution of the ENTSO-E time series can be 15, 30 or 60 minutes. Therefore, I have three different sets of conversion software for the creation of hourly time series in my format. This is still must simpler than using individual software per country or, as for Germany, for each transmission system operator.

I decided to upload the mended time series to http://pfbach.dk/. They are complete, bus include more or less estimated data.

The percentage of estimated data is indicated in the download page for most time series in 2016. In the data sheet, cells with estimated data are yellow. I hope that this gives the users of my data a fair idea of the data quality.

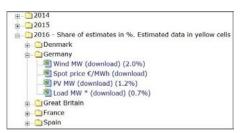


Fig. 1 – The download page informs about shares of estimated data

The estimated data in fig. 2 may look wrong. The reason is that the interpolation was made in the 15 minutes original, where only some of the quarters were missing.

I am still improving the tools, so errors may occur. I am, as always, grateful for information on any problem with my collection of data.

British data are from http://www.gridwatch.templar.co.uk/. Even this data source is incomplete. A better data quality is available from https://www.elexonportal.co.uk/, but first after several months.



Fig. 2 – From a sheet with estimates

From a European wind power point of view, Irish data are quite important. However, these data are so poor that a reconstruction with reasonable authenticity is not possible. Therefore, I have asked Eirgrid to send me the 2016 time series for load and wind power, as they kindly did last year.

Generally, I can quite easily download and convert time series of good quality from the ENTSO-E Transparency Platform to my usual format. I am ready to consider requests for additional 2016 data and extend the selection correspondingly.

♪ pfbach@mail.dk ▼ Central collection and publication of electricity generation entso@ Load ? Generation ? Transmission ? Balancing ? Outages ? Congestion Management Data Pre-5.1.15 Total Load - Day Ahead / Actual Countertrading Balancing Total Load Forecast - Week Ahead Volumes Redispatching 2011 Data Total Load Forecast - Month Ahead Reservation · Costs Total Load Forecast - Year Ahead · Forecast Margin - Year Ahead 2012 Data Installed Capacity per Production Type · Unavailability in Transmission Grid · Water Reservoirs and Hydro Storage Plants Unavailability of Offshore Grid · Unavailability of Production Actual Generation per Production Type and Generation Units 2013 Data Actual Generation per Generation Unit Aggregated Unavailability of Consumption Units Generation Forecast - Day ahead Generation Forecasts - Day Ahead for Wind and Solar 2014 Data Installed Capacity Per Production Unit Scheduled Commercial Exchanges · Implicit Allocations - Intraday 2015 Data Cross-Border Physical Flows - Implicit Allocations - Day Ahead Day-ahead Prices · Implicit Allocations - Net position - Intraday Implicit Allocations - Congestion Income · Forecasted Transfer Capacities - Day Ahead • Daily Implicit Allocations - Congestion Income • Forecasted Transfer Capacities - Week Ahead Forecasted Transfer Capacities - Month Ahead . Cross Border Capacity of DC Links - Ramping Restrictions Forecasted Transfer Capacities - Year Ahead Cross Border Capacity of DC Links - Intraday Transfer Limits Explicit Allocations - Intraday Expansion And Dismantling Projects · Explicit Allocations - Day ahead · Expansion And Dismantling Projects (Report) Long Term / Medium Term Critical Network Elements Explicit Allocations Revenue · Explicit Allocations - AAC Day Ahead Flow Based Allocations Transfer Capacities Allocated with Third Countries • Daily Flow Based Allocations - Congestion Income • Transfer Capacities Allocated with Third Countries (Implicit) - Total Nominated Capacity

Available Data at the Transparency Platform

Fig. 3 - New ENTSO-E data structure from 5 January 2015

How to Download Time Series from the ENTSO-E Transparency Platform

Some data users find it difficult to download data from the ENTSO-E Transparency Platform. The following guide may be helpful.

Go to https://transparency.entsoe.eu/ and log in (fig. 4).



Fig. 4 - Login at the ENTSO-E Transparency Platform

Select (for instance) "Load" and "Total Load – Day Ahead / Actual" (fig. 5).

Loads can be given for control areas, bidding zones or countries.

Select (for instance) in this sequence (fig. 6):

- 1. "Country"
- 2. Belgium
- 3. Any date within the year, you want to download
- 4. "Export" opens the next menu
- 5. "Total Load Day Ahead / Actual (Year, XLSX)"

The word "Year" (fig. 6) is the key to download a full year instead of just one day.

Now wait for a pop-up menu (fig. 7). The waiting time sometimes seems to be long.



Fig. 5 - Select Total Load



Fig. 6 - Downloading time series for a full year

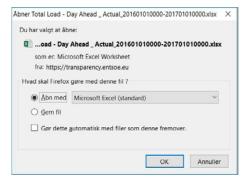


Fig. 7 - Download to my computer



Fig. 8 - ENTSO-E Load data for Belgium

Time series from ENTSO-E have largely the same format (fig. 8), but with some tricky differences in the first four rows with specifications. For reading these specifications by a computer program, separate programming is required for each type and for each country.