Dataset

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Hourly Energy Consumption

Over 10 years of hourly energy consumption data from PJM in Megawatts

Rob Mulla • updated 10 months ago (Version 3)

Usability 8.5 **License** CC0: Public Domain **Tags** business, time series, united states , energy, research

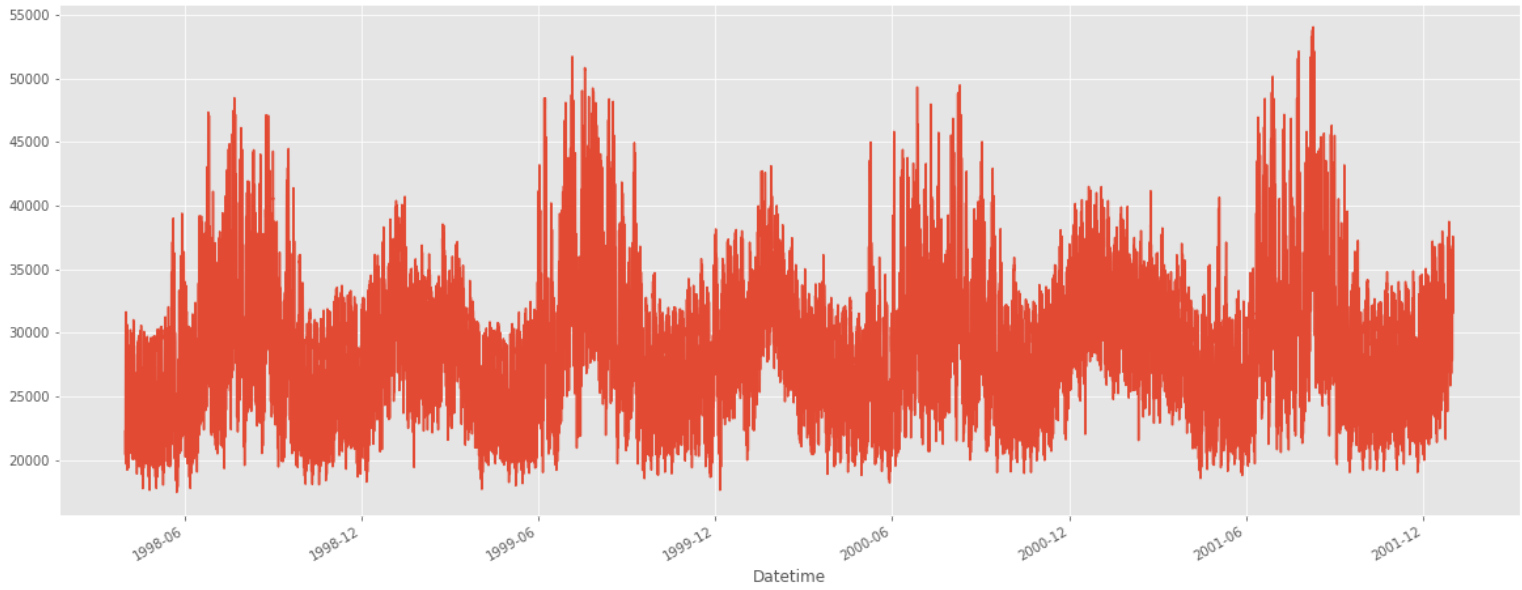
Description

PJM Hourly Energy Consumption Data

PJM Interconnection LLC (PJM) is a regional transmission organization (RTO) in the United States. It is part of the Eastern Interconnection grid operating an electric transmission system serving all or parts of Delaware, Illinois, Indiana, Kentucky, Maryland, Michigan, New Jersey, North Carolina, Ohio, Pennsylvania, Tennessee, Virginia, West Virginia, and the District of Columbia.

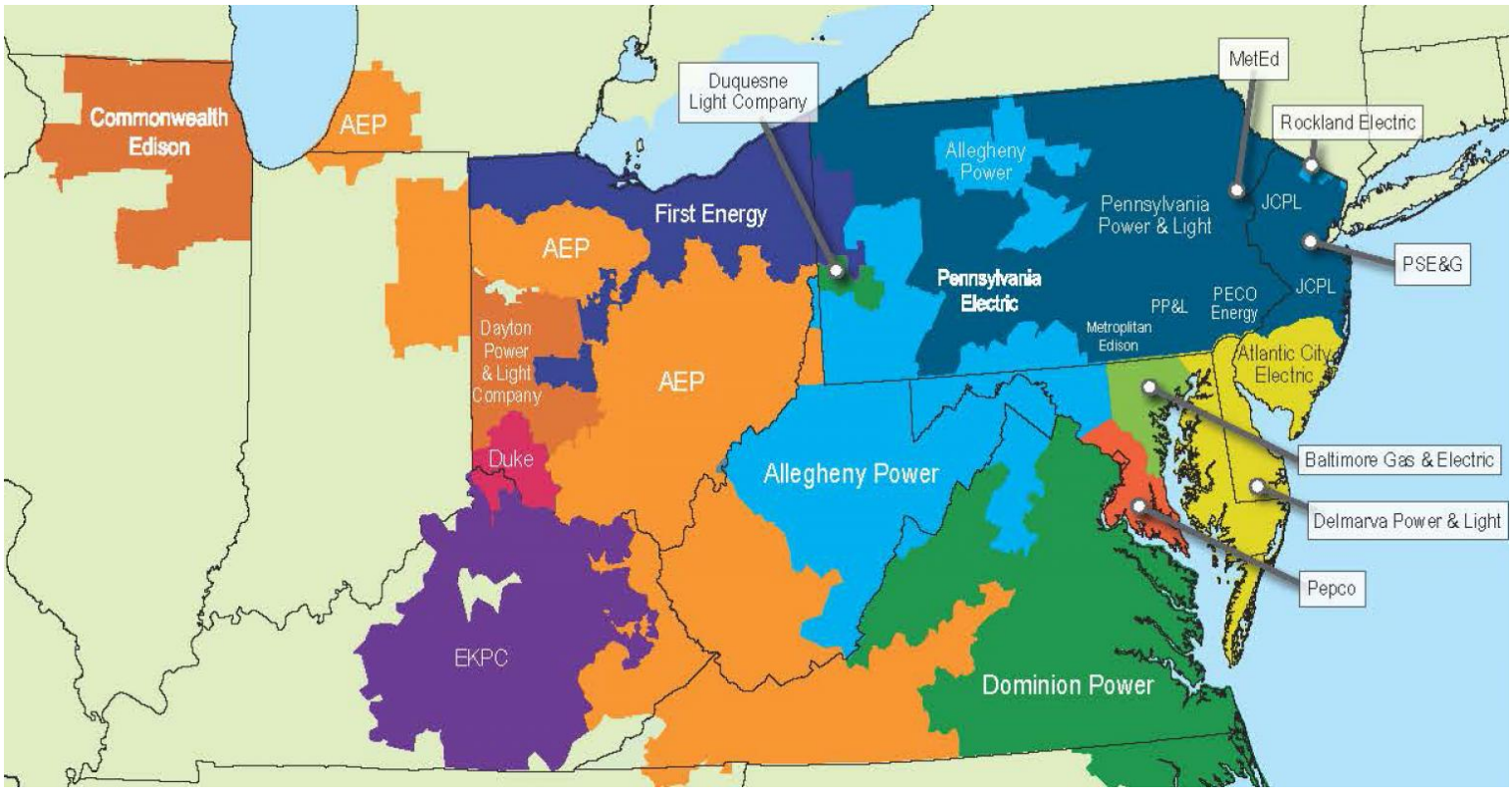
The hourly power consumption data comes from PJM's website and are in megawatts (MW).

The regions have changed over the years so data may only appear for certain dates per region.



Ideas of what you could do with this dataset:

- Split the last year into a test set- can you build a model to predict energy consumption?
- Find trends in energy consumption around hours of the day, holidays, or long term trends?
- Understand how daily trends change depending of the time of year. Summer trends are very different than winter trends.



Data (11 MB)

Data Sources

- AEP_hourly.csv 121k x 2
- COMED_hour... 66.5k x 2
- DAYTON_hourl... 121k x 2
- DEOK_hourly.... 57.7k x 2
- DOM_hourly.csv 116k x 2
- DUQ_hourly.csv 119k x 2
- EKPC_hourly.... 45.3k x 2
- FE_hourly.csv 62.9k x 2
- NI_hourly.csv 58.5k x 2
- pjm_hourly_es... 178k x 13
- PJM_Load_ho... 32.9k x 2

About this file

American Electric Power (AEP) - estimated energy consumption in Megawatts (MW)

Columns

- Datetime Date
- # AEP_MW Megawatt Energy Consumption

PJME_hourly.csv 145k x 2

PJMW_hourly.c... 143k x 2

est_hourly.paruqet

AEP_hourly.csv (3.24 MB)

2 of 2 columns

Views

	Datetime Date	AEP_MW Megawatt Energy Consumption
	1Oct04 3Aug18	9.58k 25.7k
1	2004-12-31 01:00:00	13478.0
2	2004-12-31 02:00:00	12865.0
3	2004-12-31 03:00:00	12577.0
4	2004-12-31 04:00:00	12517.0
5	2004-12-31 05:00:00	12670.0
6	2004-12-31 06:00:00	13038.0
7	2004-12-31 07:00:00	13692.0
8	2004-12-31 08:00:00	14297.0
9	2004-12-31 09:00:00	14719.0
10	2004-12-31 10:00:00	14941.0
11	2004-12-31 11:00:00	15184.0
12	2004-12-31 12:00:00	15009.0
13	2004-12-31 13:00:00	14808.0
14	2004-12-31 14:00:00	14522.0
15	2004-12-31 15:00:00	14349.0
16	2004-12-31 16:00:00	14107.0
17	2004-12-31 17:00:00	14410.0
18	2004-12-31 18:00:00	15174.0
19	2004-12-31 19:00:00	15261.0
20	2004-12-31 20:00:00	14774.0
21	2004-12-31 21:00:00	14363.0
22	2004-12-31 22:00:00	14045.0
23	2004-12-31 23:00:00	13478.0
24	2005-01-01 00:00:00	12892.0
25	2004-12-30 01:00:00	14097.0

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