Appliance energy prediction

Data import

Dataset: https://archive.ics.uci.edu/ml/datasets/Appliances+energy+prediction

In [1]:
```
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
from matplotlib import style
import numpy as np
```

In [2]:
```
df = pd.read_csv("/work/energydata_complete.csv")
```

Variable description

Variable Description

date time year-month-day hour:minute:second Appliances, energy use in Wh lights, energy use of light fixtures in the house in Wh T1, Temperature in kitchen area, in Celsius RH_1, Humidity in kitchen area, in % T2, Temperature in living room area, in Celsius RH_2, Humidity in living room area, in % T3, Temperature in laundry room area RH_3, Humidity in laundry room area, in % T4, Temperature in office room, in Celsius RH_4, Humidity in office room, in % T5, Temperature in bathroom, in Celsius RH_5, Humidity in bathroom, in % T6, Temperature outside the building (north side), in Celsius RH_6, Humidity outside the building (north side), in % T7, Temperature in ironing room , in Celsius RH_7, Humidity in ironing room, in % T8, Temperature in teenager room 2, in Celsius RH_8, Humidity in teenager room 2, in % T9, Temperature in parents room, in Celsius RH_9, Humidity in parents room, in % To, Temperature outside (from Chièvres weather station), in Celsius Pressure (from Chièvres weather station), in mm Hg RH_out, Humidity outside (from Chièvres weather station), in % Windspeed (from Chièvres weather station), in m/s Visibility (from Chièvres weather station), in km Tdewpoint (from Chièvres weather station), °C rv1, Random variable 1, nondimensional rv2, Rnadom variable 2, nondimensional

Data preprocessing

Preliminary analysis