Project Title:

Team Members

Project Description/Outline

Research Questions to Answer

1. What are the main climate variables that affect the factory production?
2. What are the main climate variables that affect the energy consumption?
3. How is it correlated the production and the energy consumption?
4. Define the energy consumption curve for each month of the year.
5. Define the energy consumption curve for each season of the year.
6. For each group of devices, find the best.
7. Base line for each device.
8. Make production recommendations, based on the optimal production.

Datasets to Be Used

1. Energy consumption by device.
2. A & B Production
3. World Weather API
4. CFE Tariffs

Rough Breakdown of Tasks

1. ELT
   1. Energy dataset
   2. Production dataset
2. CFE Tariff
   1. Create dataset
3. Test API
   1. Get data
4. Plot the data
   1. Production vs Weather
   2. Energy Consumption vs Weather
   3. Correlation
      1. Energy
      2. Weather
   4. Plot energy consumption for each device
      1. Month
      2. Season
5. Rank the devices based on the previous step
6. Consumption and its associated cost
7. Conclusions
   1. Recommendations based on the graphs