RESOLUTION: MODEL PERFORMANCE

RANDOM FOREST REGRESSOR

Mean Absolute Error: 1.95
Median Absolute Error: 1.28

VS

AWS | XGBOOST

Mean Absolute Error: 1.66
Median Absolute Error: 1.11

RESOLUTION: MODEL AND IMPORTANT PREDICTORS

aws

AWS | XGBOOST

Mean Absolute Error: 1.66
Median Absolute Error: 1.11
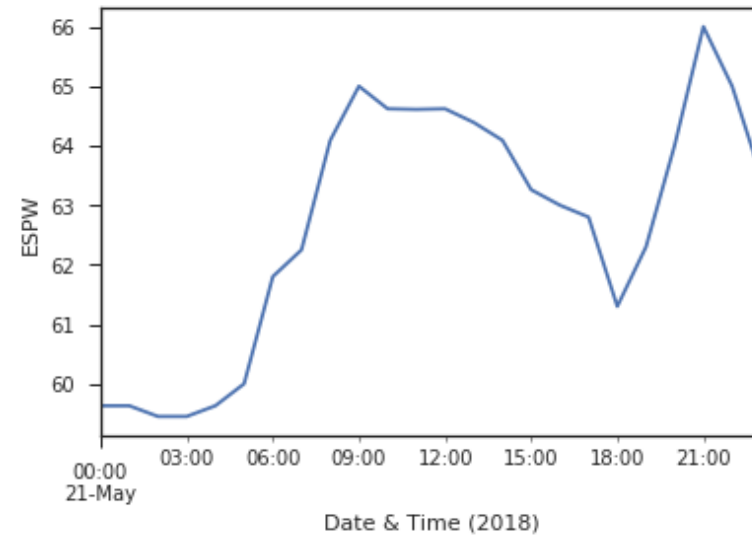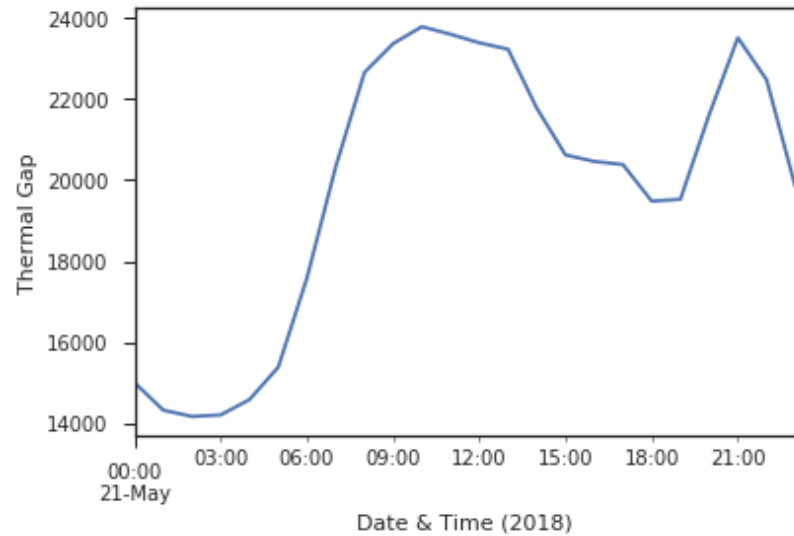

Thermal Gap

Gas

Day of the week

Export of energy from Spain to France
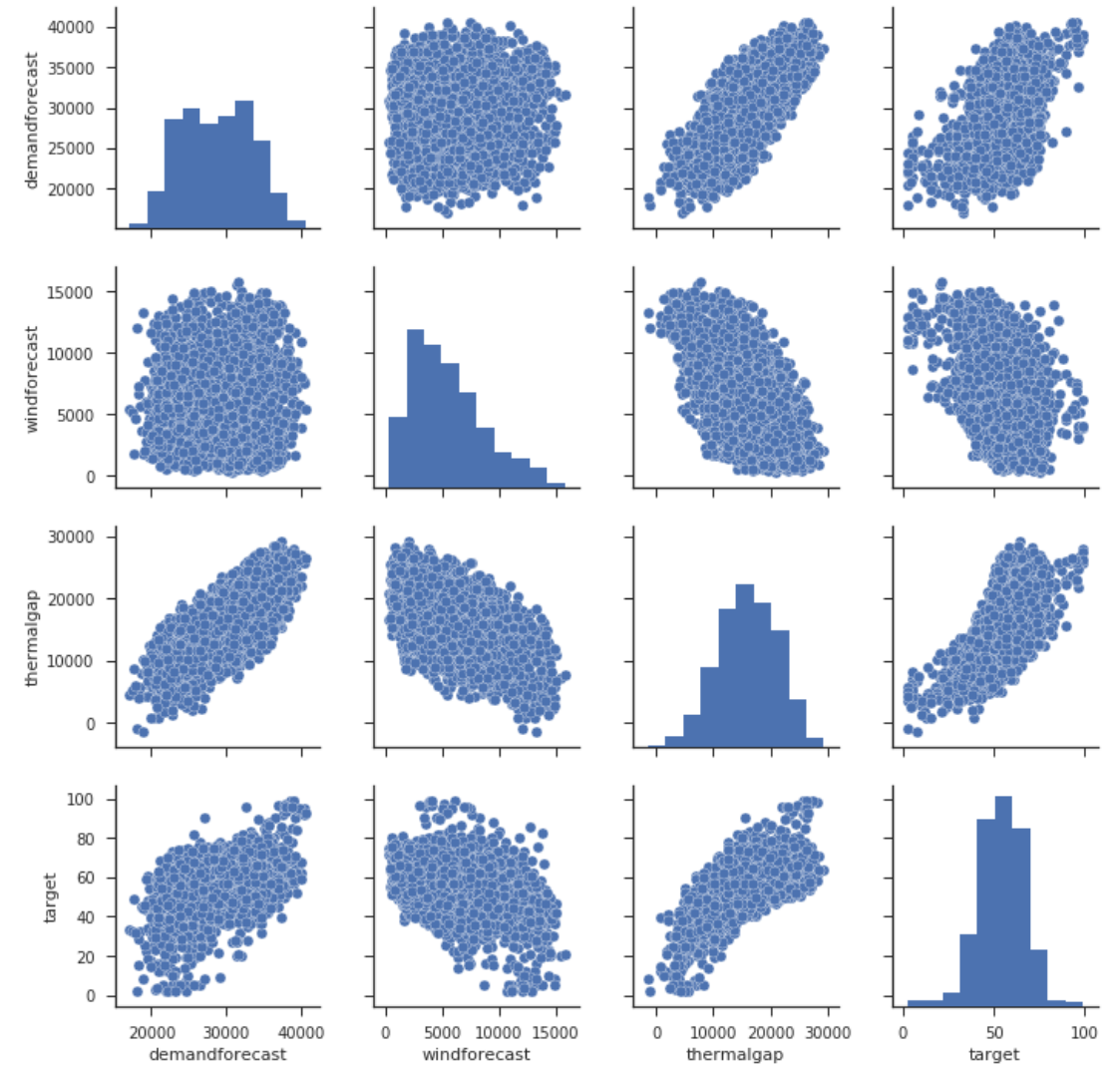

Wind forecast

EXPLORATORY DATA ANALYSIS: THERMAL GAP AND PRICES

Knowledge transfer from the trader was extremely helpful in this project– the predictor 'Thermal Gap' was very important in model accuracy.

FEATURE ENGINEERING: DATA VISUALIZATION

Historical data of different predictors and newly engineered features were plotted to look at distribution and correlation. Some of our predictors include wind forecast, demand forecast, and thermal gap.

Model Output

Model output (*predictions*) for October 4th, 2019 compared with actual values (*target*).

Price Predictions - Day Ahead (04-10-2019)