

DEMAND ANALYSIS

By

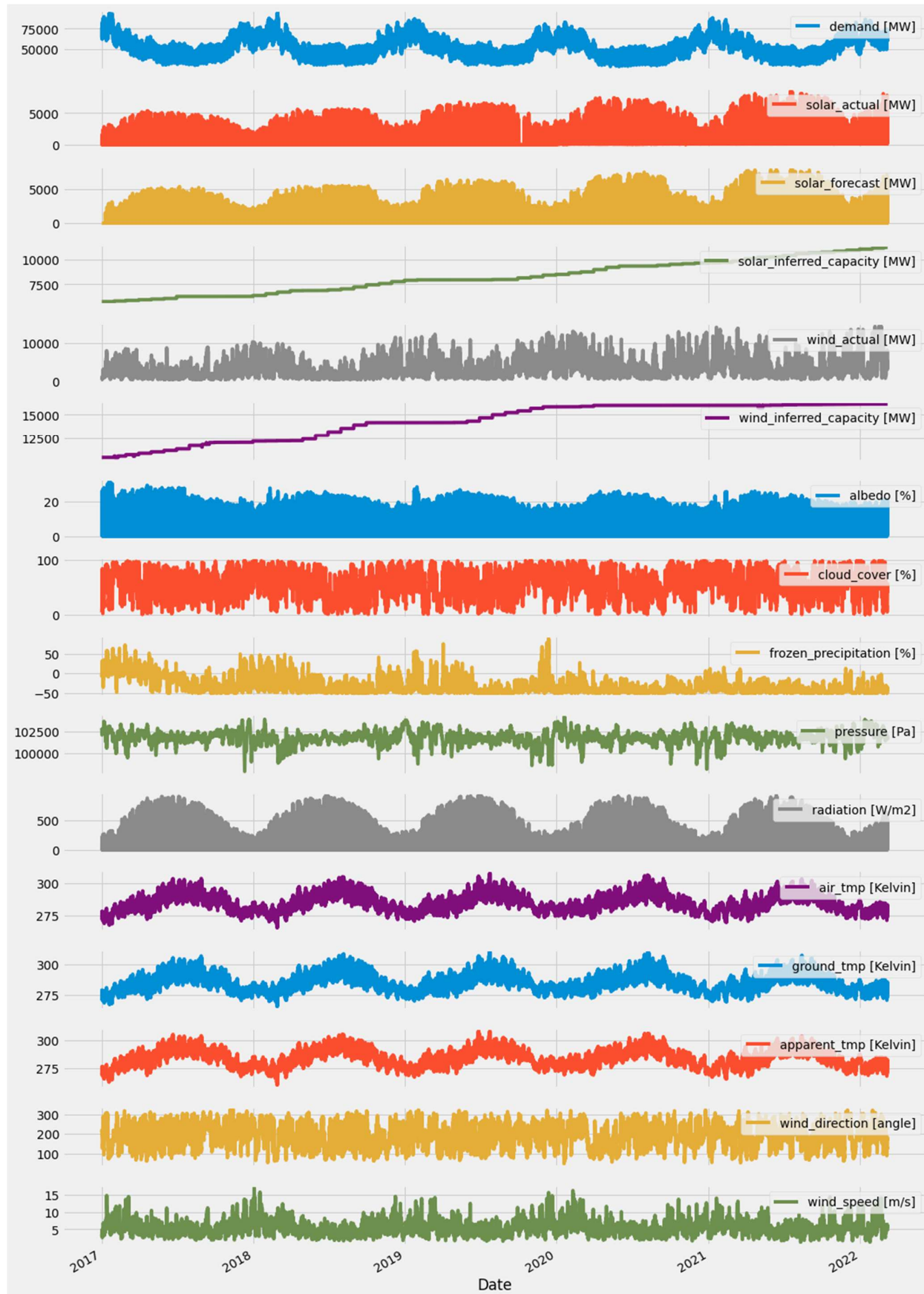
Fabian Umeh

About

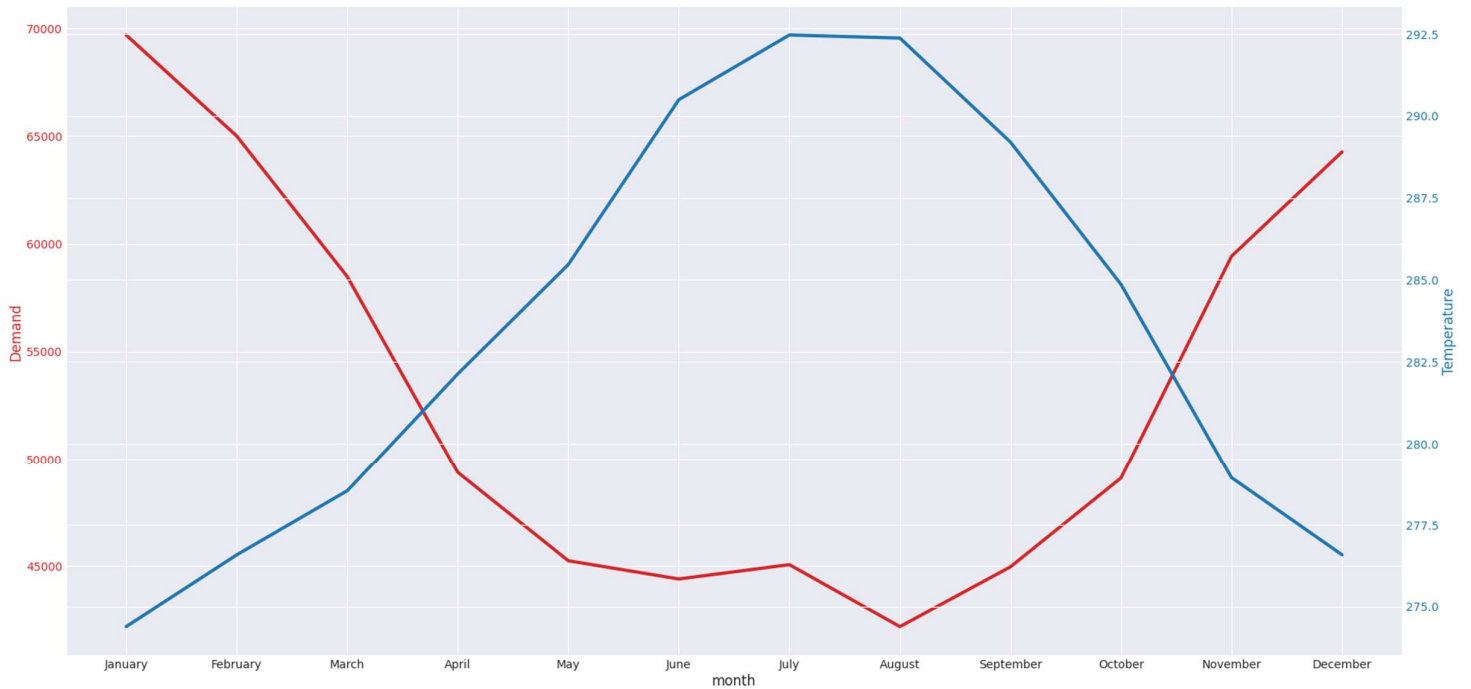
The analysis is focused on the development of a prediction model to properly plan energy producing operations and balance demand with adequate supply. An accurate prediction can assist in managing day-to-day operations, fulfilling customers' energy demands, and preventing surplus energy generation.

Key Notes from EDA

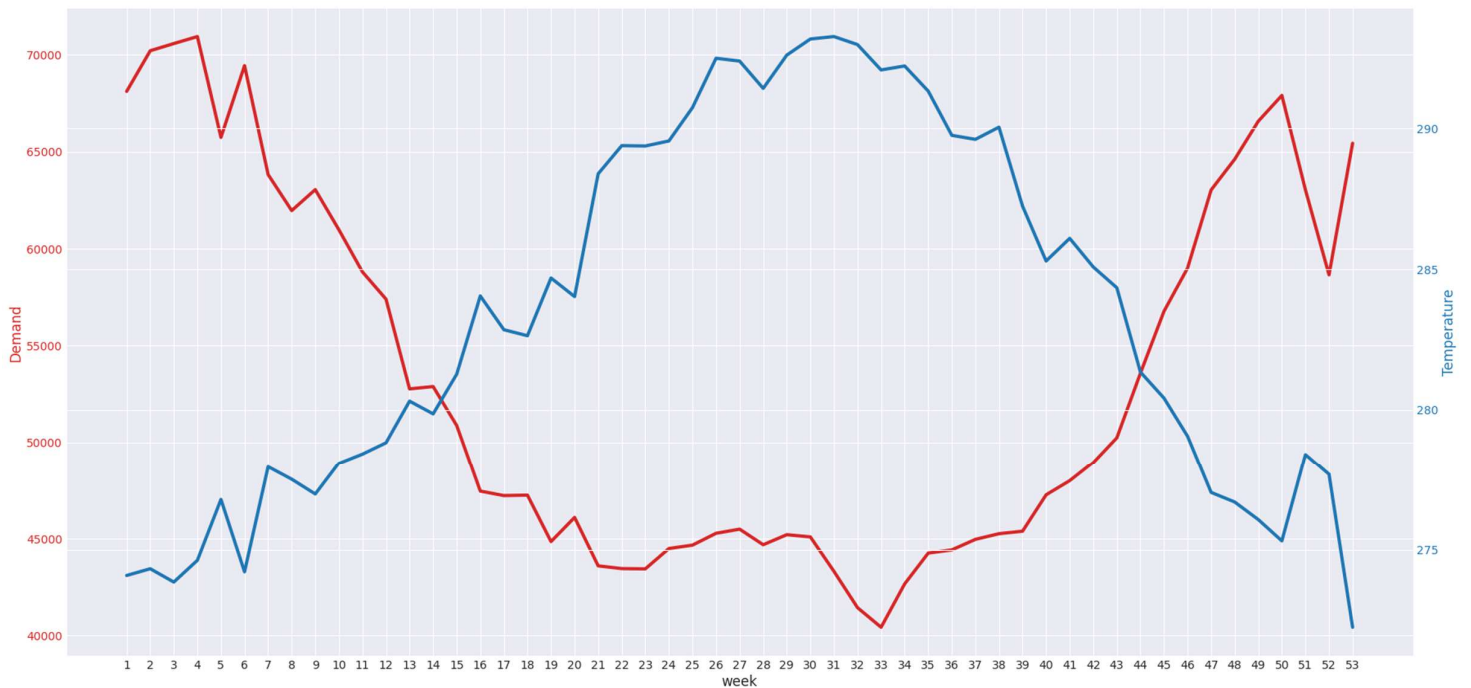
- Air temperature, ground temperature, apparent temperature, radiation, solar actual and solar forecast shows inverse proportionality with energy demand price.
- Solar infrared capacity, wind infrared capacity, cloud covers, frozen precipitation, pressure and wind direction does not show any visible correlation with energy demand.
- Conversely, wind speed, albedo and wind actual show little but noticeable correlation with energy demand price.



- From April through October when France's temperature is relatively low, demand peaked at those periods.



- The average demand and temperature plot shows a similar trend highlighted above.



- In the week, energy are least demanded on weekdays, this could be as a result of the days not being regular working days where businesses require power to function properly

