**Project Title: Real time energy price forecast/buying analysis**

* + We will be forecasting energy prices by market and region 7 days ahead and comparing to real-time pricing to make a purchasing decision at a certain point in time
* **Team members**
  + Cris, Abel, Nada
* **Project description /outline**
  + We will be analyzing various historical inputs to create a predictive model of energy pricing
  + We will compare real-time data to our forecast to make a purchasing decision
  + We will test the accuracy of our model to determine viability
* **Research Questions to Answer**
  + What are the significant variables
  + Is our model viable
  + What API’s can we incorporate to our model
* **Data Sets to be Used**
  + Historical PJM JSON API
  + Weather data/API
  + Business consumption data
* **Rough Breakdown of Tasks**
  + Grab all data and capture in form of data frames & SME – Nada
  + Work on the predictive model – Cris
  + Work on Visualizations – Abel
* Resources:
  + Weather API for historical weather data since 2015
    - Home page url: <https://www.apixu.com/my/>
    - API Key: 906d6b2110ef41ccb46203211180711
    - Request url: <https://www.apixu.com/doc/request.aspx>
  + Weather API for historical weather data for upto 10 years back (hourly & daily) – 1,000 calls per day
    - API Documentation: <https://www.weatherbit.io/api>
    - Your API Key: e778c3e316f84a889e36d17e28d8b3da
    - Request/Base URL:
      * HTTP: http://api.weatherbit.io/v2.0/history/daily
      * HTTPS: https://api.weatherbit.io/v2.0/history/daily