ENERGY PRICE

Objectives

This project is based on the development of an IT Tool that allows to calculate prices for an energy selling offer. The goal is to have an automized personalization of offers and calculation of prices in order to present them to customers. Central role is management of load curves, data on consumption of the client (Price/MWh consumed) and calculated prices to be sure we are not pricing too high compared to regular market prices. For that good data management practices were established

Steps

- Recognize five business needs from the interview and interaction with the client

- System architecture design with the business requirements in focus. The development and the implementation of scripts (Python and SQL) for data collections, integration, storage, analysis and visualization of the energy offer for each customer

- Demo display of energy offer made with power BI or other visualization tools as talend, Qlikview, tableau. Data come from a website.

Business needs

Values:

- Data as an asset
- Timely access to energy offer
- Revenue generation
- Margin harmonization and pricing openness

Goals

- Develop a lean data model
- Develop system architecture
- Develop a harmonized database
- Create a personalized energy offer dashboard

Pricing model

- Margin
- Risk coverage
- Routing
- Cost of the molecule
- Modulation cost

System architecture

- Automated data collection from the public websiste (python)
- Data storage (postgres database, AWS server)
- Data manipulation (management of the exemptions, B2B price calculation, cost component)
- Logical data model

Data visualization with power BI