**PROBLEM STATEMENT**

**TEAM**

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**Power consumption of Tetouan city Data Set**

Summary   
The project's goal is to leverage **time series analysis** to predict energy consumption in 10-minute windows for the city of Tétouan in MoroccoGiven the strong dependency on **non-renewable sources** (64%), forecasting energy consumption could help the stakeholders better manage purchases and stock. On top of that, Morocco’s plan is to reduce energy imports by **increasing production** from **renewable sources**. It’s common knowledge that sources like wind and solar present the risk of not being available all year round. Understanding the energy needs of the country, starting with a medium-sized city, could be a step further in planning these resources.

The **distribution network** is powered by 3 zone stations, Quads, Smir and Boussafou. The 3 zone stations power 3 different areas of the city, this is why we have **three potential target variables**.

Summary of the data

Link to dataset [Click Here](https://archive.ics.uci.edu/ml/datasets/Power+consumption+of+Tetouan+city)

1. Date Time: Time window of ten minutes.
2. Temperature: Weather Temperature in °C
3. Humidity: Weather Humidity in %
4. Wind Speed: Wind Speed in km/h
5. Zone 1 Power Consumption in KiloWatts (KW)
6. Zone 2 Power Consumption in KW
7. Zone 3 Power Consumption in KW