**Wind Energy Output Power Prediction**

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**Overview**

Renewable energy will become the main source to supply power. Wind, as a perennial source of power, has become one of the main sources to satisfy our power requirements. The wind power forecasting, which can provide the future power supply information, becomes quite useful due to the rise of wind farms. Here, we have the data of a certain wind farm, and a long-term wind forecasting technique is required to predict the output power for the future days.

**Criteria for Success**

* The wind turbines worked well to provide power, so the data of output power is seasonal.
* The sensor that measured the wind speed worked well, so we have the corresponding wind speed data, which is really important.

**Constraints**

* From the wind power datasets, we find a lot of missing values which may affect the prediction accuracy.
* A lot of factors are included in the datasets, which may increase the difficulty of data analysis due to the correlation between the factors.