Predicting the Energy Output of Wind Turbine Based on Weather Condition

By: Krishna Sharma S **Date: 17.06.2020**

Project Objective:

This project's objective is to develop a time series model to predict the power output of wind farm based on the weather condition in the site.

Project Summary:

Wind energy plays an increasing role in the supply of energy world-wide. The energy output of a wind farm is dependent on the wind conditions present at its site. If the output can be predicted more accurately, energy suppliers can coordinate the collaborative production of different energy sources more efficiently to avoid costly overproduction.
This project will suggest the best time to utilize the energy from wind farm.

Functional Requirements:

The project must take in inputs like date, time, wind direction, wind speed and predict the energy output of wind turbine.

Technical Requirements:

1. IBM Cloud
2. IBM Watson Studio
3. NODE-RED

Project Deliverables:

The project must be able to display the predicted energy of wind turbine after getting relevant details from the user.

Project Team:

CodeML

1. Krishna Sharma S

Project Schedule:

The project must be completed by 30.06.2020