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Project Name: Predicting the energy output of wind turbine based on weather condition

## Predicting The Energy Output Of Wind Turbine Based On Weather Condition

Renewable energy, such as wind and solar energy, plays an increasing role in the supply of energy worldwide. This trend will continue because global energy demand is increasing, and the use of nuclear power and traditional sources of energy such as roal and oil is unsafe and leads to a large amount of CO2 emission. Wind energy is a key player in the field of renewable energy. In Europe, the capacity of wind energy production has doubled from 2009 to 2010.

However, levels of production of wind energy are hard to predict as they rely on potentially unstable worther conditions present at the wind farm. In particular, wind speed is crucial for energy production based on wind, and it may vary drestically over time. Except suppliers are interested in accurate predictions, as they can avoid overpreduction by occadinating the callaborative production of traditional proof plants and woother-dependent energy sources. The energy can be predicted based on the power curve and the windspeed.

MANY TO PRODUCE THE EMPROYEE



