ABSTRACT

This project work involves the study of wind power and its potential that can be harnessed in the future to meet the current energy demand. With detailed description of the wind turbine and the wind generator focus has been given and the problems associated with it. In the end a voltage stability analysis has been done with respect to various speed of the vehicle to find the best way to clear faults and have optimum output.

A turbine has a rotator with blades attached to it. When the wind strikes the blades, they start moving and mechanical energy is produced. This mechanical energy is then converted into electrical energy which can be stored in batteries.

Energy resources in our modern fast paced techno world is fast depleting. Hence a renewable energy source is much required at the moment.

In this project work an attempt is made to design and fabricate a model for generating clean energy by harnessing the power of wind.

To accomplish the project we have used hard plastic material fan, a 12 volt dynamo and mounted the whole set up on a bike to determine the power output.