



Review of Future for Wind Turbine Systems

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Abstract: Wind power plant is measured as a machine that change kinetic energy of airstream into electrical power. Winds are caused by solar heating of atmosphere. Wind power is a main and major supply for power generation. Wind energy has emerged as the leading renewable energy generation method. The conversion of wind energy into electrical power generation is very useful, important and economical. In order to successfully use wind energy with traditional generation supplies it is necessary to have the facility to accurately predict the available output by wind mill. In this research work I have made model to analyse the output by windmill with respect to dissimilar parameters like blade length, Air Density, Swept Area and wind speed. A variety of turbines may be used within order to increase contributions to house power supply. This is performed at time of selling power to utility supplier. Power is supplied through electrical grid. These wind farms are considered as a beneficial source of energy. Here I have made relative analysis between power present in wind and power extracted from wind. In this case output in case of different blade length has been calculated and plotted using MATLAB tool. Simulation of power production in case of different wind speed. In this case there is comparative analysis of power production in case of different Air Density. A quantitative measure of wind energy which was available at different place is known as Wind Power Density. Energy of blowing wind is not used as conservation of collective needs that as much collective of air exits turbine as enters it. Law of Betz's provides achievable extraction of wind power by wind turbine because fifty nine percent of kinetic energy of air is flowing through turbine.

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[I] INTRODUCTION

Winds are caused by solar heating of atmosphere. They can carry enormous quantity of energy. Before the development of electric power on large scale, windmills served many countries for their electric utilities. The conversion of wind energy into useful form of energy (mechanical and electrical energy). The operating cost of windmill is negligible. Wind power is non- steady and unreliable source. It makes necessary to store wind energy in form of batteries to

use same energy during calm periods. and are used by many countries as part of a strategy to reduce their reliance on fossil fuels.

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