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Title:	Study of Wind Power in Different Parts of Bangladesh
Author(s) Name:	Md. Robiul Islam, Md. Nazibur Rahman, Mohammad Abdul Mannan
Contact Email(s):	mdmannan@aiub.edu
Published Journal Name:	International Research Journal of Engineering and Technology (IRJET)
Type of Publication:	Journal
Volume:	3 Issue 9
Publisher:	Fast Track Publications
Publication Date:	September 2016
ISSN:	2395-0072
URL:	https://www.irjet.net/volume3-issue09
Other Related Info.:	Pages 1290-1299

Citation: Md. Robiul Islam, Md. Nazibur Rahman, Mohammad Abdul Mannan, “Study of Wind Power in Different Parts of Bangladesh”, International Research Journal of Engineering and Technology (IRJET), Vol. 3, Issue 9, pp. 1290-1299, 2016.



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Abstract:

Due to the reduction of available fossil energy resources and also safety problems and high cost of nuclear energy, conventional sources of energy are depleting and emphasis is now focused on renewable energy. The number of researches related to renewable energies, especially wind energy is increasing. Wind energy is a renewable source of great potential. It's cheaper and requires less maintenance, but there are problems associated with him. The wind turbine (WT) associated with the issue of the unpredictable nature of wind. It also makes it easy to get a constant frequency and constant voltage from wind turbines driven by the variable speed. Bangladesh has to deal with the increasing demand of electricity. With the world' increasing trend of utilization of wind energy and the reduced costs of renewable energy technology and improved efficiency and reliability, wind energy can be good alternative solution to Bangladesh's dependency on natural gas which gets more expensive in the future. Bangladesh has a projected electricity demand of 12,229 MW in year 2016; only 100 MW of that huge demand is projected to come from wind power sources. It is come to be deployed in the coastal area and islands. But there are other places of interest for wind power generation, which could be good means for solving the huge power crisis and problem. This paper exposes Prospect and feasibility of wind power in different parts of Bangladesh. And also discuss Wind speed in different local in Bangladesh, feasibility of different scale of wind power generation. Wind speed average 5 m/s to 3.5 m/s. wind turbines could be installed and tested in locations such as St. Martins Island, Cox's Bazar, Patenga, Bhola, Barguna, Dinajpur, Thakurgaon and Panchagar.

Key words: Bangladesh, Wind Power, Feasibility, Prospect, renewable energy, wind power Generation.