ABSTRACT

Human beings are utilizing wind energy from the early stages of human civilization for numerous processes like grinding of grains, pumping water, sailing, etc. With time, both human civilization and wind energy utilization are developing, and in this 21 century, wind energy is a popular source of Renewable Energy for electricity generation. The increased industrialization and modernization resulted in the increased demand for electricity. To address these ongoing requirements, more and more fossil fuel-based power plants are being installed all across the globe, which is generating a massive amount of carbon dioxide and other harmful gases responsible for greenhouse gas emissions and global warming. Moreover, these fossil fuels are nonrenewable, and hence depending solely on these fuels will create a scarcity of energy in the future. In such a situation. the world is focusing and exploring various forms of renewable energy sources, like solar photovoltaic, wind, geothermal, hydro, tidal, etc. and within a short time, wind energy has become a popular source of energy for generating electricity in an environment friendly method. In this Course Project, the theoretical study of Wind Energy and Wind Turbines is carried out along with the study of wind energy potentials in Bangladesh.

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TABLE OF CONTENTS

LIST OF FIGURES