PROJECT NAME

MAGNETIC LEVITATION WIND TURBINE

Team Name: Team_Let's Try

Zareen Tasnim Pear
Roll: 1810010
Dept. of Electrical & Computer Engineering
Rajshahi University of Engineering & Technology

1.1 Introduction

The project is mainly a hardware development project. Our Initial Objective was the implementation of an alternate configuration of a conventional wind turbine for power generation purpose utilizing magnetic levitation techniques.

Magnetic levitation is a method by which an object is suspended with no support other than magnetic fields.

The wind turbine, operates based on Electromagnetic Induction, converts the kinetic energy of wind into electrical energy. The Maglev wind turbine design is a vast departure from conventional propeller designs.

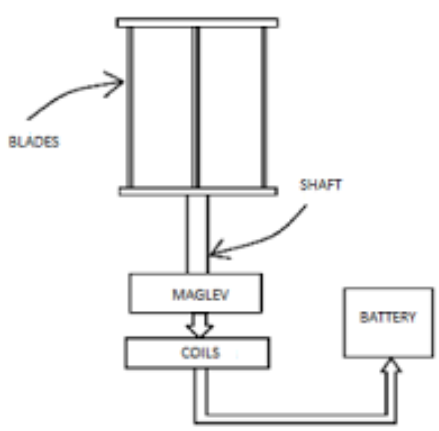
Some advantages of the project are discussed below:

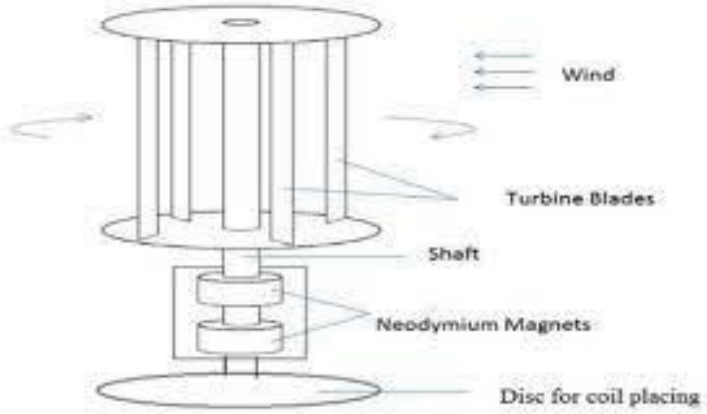
- The principal advantage of a maglev windmill is, as the rotor is floating in the air due to levitation, mechanical friction is totally eliminated.

- It can save power consumption and produce a good amount of electricity.

Although we couldn't get the required output that fulfils our initial objectives, we managed to implement the Magnetic Levitation Technique by floating an object using the method.

1.2 Desired Design





1.3 Working Methodology