

# MODELING THE MAGNET ELECTRIC POWER AS THE ALTERNATIVE ENERGY

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## **ABSTRACT**

This project presents a designed generator system that can generate electrical energy without using any fuel or electricity to its rotor. This research utilizes Perendev's Magnetic Motor (PPM) theory in order to develop an electrical motor system that can at least be able to function. PPM theory indicates that the designed motor system uses magnetic force of permanent magnet, known as neodymium magnets in order to rotate a stator and thus, creates motion. Therefore, proper magnets alignment and arrangement in the stator and rotor must be optimum so that motion can be produced. The rotary motion will then run a small turbine and eventually will generate electricity. The scope of this study is to construct and build this system so that it can produce at least a few volts. Although the system is able to produce a small amount of energy, it is justifiable enough to show that the theory can be implemented and can be later improved for larger scale production.

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# CHAPTER 1

## INTRODUCTION

### 1.1 BACKGROUND OF STUDY

Electrical energy is the most important component on daily life and it is used abundantly in all systems such as industrial and residential. The conventional system is facing many problems and one of the major concerns is the regular increasing of global fuel price. Therefore for long term usage, an alternative way for harvesting power has to be invented [3]. Many developers in the electrical industry have been pursuing more intentionally on designing and developing a new power system and one of the solutions is to develop a system that uses renewable energy as the main component [4].

The current conventional system has created many global issues and problems such as environmental pollution. Any conventional power plant need fuel resources in which at the end, decreases the surrounding air quality. Even, alternative traditional power generation such as oil generator can also do harm to the environment. Therefore, it is a quest to look for other alternatives in protecting the environment from pollution [5]. Besides that, the issue of high fuel global price can also be resolved by these alternative power plants [6].

In this project, renewable energy concept was practiced in order to develop a Free or Alternative Energy system for the future. The main objective is to develop a system that can generate an electrical energy source without relying on any fuel or electricity