

GATE AND LAMP POWERED BY SOLAR

ABDUL WAFI BIN ABDUL RAZAK

AHMAD NAQIUDDIN MUSTAQIM BIN ROSHDI

AHMAD SHARIZAL BIN ALLUWI

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Faculty of Electrical Engineering

University Technology MARA

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ABSTRACT

Solar is one of the most used renewable energy in the world alongside with other renewable energy such as wind, water and many others. Solar creates energy through heat from the sun that is collected using the special panel. The energy produce is clean and not harmful to the environment in any way.

Solar powered automatic gates and lamp is a project that will meet the convenience and needs of the people or certain people in this sophisticated era. At present, users are usually more inclined to use the remote controlled gate to control the movement of the gate. This project is developed by using solar sources to generate the electricity.

The success of this project, it will save our electric bill because consumers have been using natural energy sources, namely solar energy. This is because the project is using a solar sensor that can absorb energy from the sun and stores it into the battery. The balance voltage in the battery it will use at night for the lamp.

CHAPTER 1

INTRODUCTION

1.0 CHAPTER OVERVIEW

This chapter will cover about the introduction, objective, scope and problem statement of this project, solar panel.

1.1 INTRODUCTION

Renewable energy is defined as energy that is infinite and naturally replenished on a human time scale. Some of the renewable energy is sunlight, wind, rain, tides, waves and many more. Renewable energy can be used to generate electricity and replacing the use of fossil fuel in daily lives. Nowadays renewable energy has started to be used globally and massively. Some of the examples are the constructing wind farms, solar complex and many more. By doing this will help to reduce the consumption of fossil fuels and also manages to reduce pollution in a bigger scale. The use of renewable energy has become a global trend. People and also large companies have started to use renewable energy to reduce consumption of electricity and also benefit from it by saving money. Even though the use of renewable energy does not help save money up front but the in the long term it benefit more than the user expected.

Solar power is probably one of the most wide used renewable energy method that people can easily obtain. It is also used to generate massive amount of electricity to support the demands. Solar power is the conversion of sunlight into electricity. The method of conversion is by “Concentrated solar power systems use lenses or mirrors and tracking systems to focus a large area of sunlight into a

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