

ECONOMICAL WATER FILTER

Prepared by: Pheh Zhi Kuan

ABSTRACT

Eco Green Lawn Mower is a solar powered project that uses solar energy rather than the power supply. It was invented due to increasing amount of electricity and also to save our environment. This project is attempted to overcome all the problems. It consists of Solar panel with battery that stores the energy. Solar system is the circuit that will converts the solar energy received by solar panel to electrical energy which will be stored in 14.5V rechargeable battery to provide power supply to the whole system. It will be connected to the motor which assembled with the cutting blade.

In this report, all the work that was carried out throughout the semester to design and fabrications process had been list out. Each of the design requirement and how the Eco Green Lawn Mower works been described in this report with technical drawings. Moreover, this report examines the performance of the Eco Green Lawn Mower during testing and the suggested improvements are recommended in future.

In order to start up these project important calculations were considered such as the dimensions of the body frame, motor power, blade dimensions, solar panel capacity and battery capacity. In this report, each of the manufacturing process and the way it works been explained. There are some diagrams and picture have been attached to give more idea and to understand easily of the project and the concept of how it is manufactured and works.