

SOLAR POWERED PLANT WATERING SYSTEM


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“I declare that this report entitled “*Solar Powered Plant Watering System*” is the result of my own group research except as cited in the references. The report has not been accepted for any degree and is not concurrently submitted in candidature of any other degree.”

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ABSTRACT

Solar powered plant watering system is an electronic project that using solar energy to watered the plant. It was invented after analyzed that the normal process are not effective and use a lot of human energy. Thus, we try to overcome these problem by creating plant watering system by using solar powered. This project consist of three main circuit, solar charger controller, soil humidity sensor and water valve circuit. Solar panel was used to absorbed heat from the sun and convert it to electrical energy. Then, it will be stored in a rechargeable battery to provide power to the whole system. Regulator is used to regulate 12V powered received from solar panel become 5V to supply to the whole system. Soil humidity sensor was used to sense the soil humidity. This sensor will send analog signal to the microcontroller and the LCD will display the moisture reading.

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