

ABSTRACT

Solar tracking system is a solar energy absorption system whit solar cell. To help move solar cell can use a drive (servo motor) to generate electrical energy. Motion servo motors can move the direction of the position of solar cell towards the optimum sunlight intensity. To know the position of the most max sunlight intensity can used LDR sensor. The LDR sensor will detect the intensity of the sunlight by scanning from the east to west. The scanning process on the LDR is driven by the servo motor. After the scanning process is complete, solar light intensity data will be sent to Arduino microcontroller and will rotate servo motor in solar cell. Implementation of the system made to produce prototype design with Arduino microcontroller circuit coupled with LDR sensor and two servo motor to drive the LDR sensor and solar cell. With the design and implementation prototype solar tracking, the process of solar energy absorption in solar cell will be more max.

Keywords: Solar cell, LDR Sensor , Servo Motor