

LIGHT TRACKING SOLAR PANEL

- Principle :-

Our project is a solar panel which adjust its orientation in terms to give most efficient output by making its surface perpendicular to the sun rays.

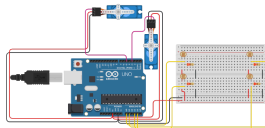
- Mechanism :-

1. We are using LDR for the sensing mechanism.
2. We have added four LDRs along the four corners of a solar panel.
3. When light falls on them they give the values of their resistances as input.
4. And using servo motor the orientation of panel is changed in such a way that the resistances along both the axis is balanced out.
5. Which is the case when we will attain max amount of light on the panel.

- Functions :-

1. The main function of our project is to maximize the efficiency of a solar panel.
2. It has dual axis motion which can accumulate the tilting of Earth's axis throughout the year.
3. It has a LCD display attached which show on time value of voltage output of the solar panel.

- CIRCUIT :-



Tinkercad :-

https://www.tinkercad.com/things/0T4DTyhtUNZ-sun-tracking-solar-pannel?sharecode=G iRFVA5HeBP4a8fTx4j5Bj4edzt7L_q3Ba2CZkjjDK0

- CAD :-

