

DUAL AXIS SOLAR TRACKING SYSTEM

ABSTRACT

Solar is easy to use, readily available, and inexpensive. Every panel you see in your day-to-day life is in a fixed position. While this approach is extremely simple and meets the needs of most small applications, it isn't producing as much energy as it could be. Our tracker is a dual axis tracker, meaning it tracks in both X and Y by help of LDR and two servo motors. By using LDR sensor we are tracking the sunlight movement direction and feeds the input to Arduino controller. Arduino controls the two servo motor used both X and Y axis. To put it into even more simple terms, it goes left, right, up, and down. This means once you have your tracker set up you will never need to change or adjust anything, since anywhere the sun moves your tracker will follow.

BLOCK DIAGRAM

