

Dual Axis Solar Tracker

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***Abstract:** Solar tracking is the best way to increase the efficiency of solar photovoltaic modules. This study presents the energy conversion efficiency of photovoltaic modules with solar tracking systems and stationary photovoltaic. The sun detection system uses four photoresistors on either side of the photomodule. These photoresistors make the sun tracking system more sensitive and accurate. Light trackers are used along with systems that point in specific directions due to the earth's rotation and the sun's changing position throughout the day. Designing and constructing a dual axis solar tracker requires a thorough understanding of electronics, control, and mechanics.*

Keywords: Arduino Solar Energy, Dual Axis, Renewable Energy Source

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