

DESIGN AND IMPLEMENTATION OF SOLAR TRACKER WITH REFLECTED MIRRORS

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ABSTRACT

Solar energy is the best renewable energy source when compared to all other renewable energy sources to develop electric power. The generation of electric power is completely depends upon photovoltaic effect. Generally photovoltaic panel is always fixed in the direction. The present study includes the design and implementation of a solar panel tracking system with linear actuator. In addition to the solar tracking system, it consists of reflecting mirrors. Solar tracking system with reflecting mirrors allow more energy to be produced because of the movement of solar panel along with the movement of the sun as it aligned to the sun. The solar tracking system with linear actuator will be designed and the performance of the system will be evaluated. Ultimately a working system will be demonstrated to validate the design.

KEYWORDS: Linear Actuator, Solar Energy, Reflected Mirrors