

A Survey on the Sun Tracking Systems and Its Principle for Getting Maximum Sun Radiation

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Abstract : Discovering different energy resources to fulfill the world's growing demand is now one of the society's bigger challenges for the next half-century. The main task is to convert the sun radiation into electricity via photovoltaic solar cells which is suddenly decreasing \$/watt of delivered solar electricity. Therefore, in this context the sun trackers are those devices that can be used to ameliorate efficiency. In this paper, a variety of the sun tracking systems are evaluated and their merits and demerits are highlighted. The most adept and proficient sun-tracking devices are polar axis and azimuth-elevation types.

Keywords : dual axis, fixed axis, sun tracker, sun radiation

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