

DEVELOPMENT OF SUN FLOWER TECHNOLOGY WITH A PASSIVE SOLAR TRACKER

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As the sun gradually moves east to west daily, one-axis static solar panels are limited in energy harvesting efficiency because the sunlight is not directly towards to the device most of time, while the maximum of the solar energy intensity will occur only when the solar panel is vertical to the sun light. Therefore, inspired by the sunflowers in the nature, which can move toward the sun, through designing and developing a passive solar tracker which can drive the solar energy device towards the sun, the efficiency of the solar harvesting can thus be optimized.