

DESIGN OF A SUN TRACKING SYSTEM
FOR SOLAR PANELS

Project Report Submitted by

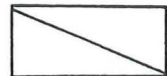
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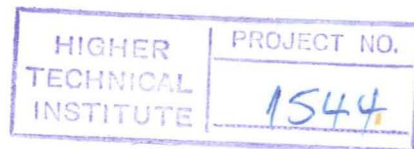
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SUMMARY

This project deals with the design of a sun-tracking system for solar panels. Although in Cyprus the sun is shining at least 10 months of the year during long and short sometimes periods every day, the efforts made for the utilization of solar energy are not those needed.

At the beginning of the project a presentation of the solar energy was done, then the main types of sun-tracking systems were explained (especially the concentration systems that were studied for tracking abroad). Moreover a sun-tracking mechanism was developed which was designed properly, for doing fully tracking (E-W and N-S axis) using two D.C motors with low speeds. Also, a small description of the electrical control system was followed, for complete tracking. Finally, a cost estimation was done.

Really, this sun-tracking system is very useful in order to collect the maximum solar energy, especially in Cyprus where there is plenty sunshine!

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