



Design and development of PLC-based solar tracking system





Overview

This paper presents a new design of a Three-axis solar tracking system which is based on Programmable Logic Controller (PLC). The automatic tracking system of solar radiation is done on the basis of radiation tracking system.

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To compensate the power needs various renewable energy sources are being employed because of its abundant supply. The objective of this mini project is to develop an automatic solar tracking system where solar panels will keep aligned with the Sunlight in order to maximize in harvesting solar.

The target of this project was to establish a solar tracking system with programmable logic controller as its controlling unit. More specifically this project concerned the programming of the linear motors that were used to move the solar panel into the desired angle. Furthermore, a comparison was.

Solar tracking systems are a crucial element in enhancing the efficiency of solar photovoltaic (PV) panels by maximizing their exposure to solar radiation throughout the day. This research paper presents the design, implementation, and performance evaluation of a single-axis solar tracking system.

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This paper presents a new design of a Three-axis solar tracking system which is based on Programmable Logic Controller (PLC). The automatic tracking system of solar radiation is done on the basis of radiation tracking system. Consumption and efficiency of solar PV cell is compared with existing.

PV) panel to generate energy approximately follows the intensity of the sunlight on the panel. A dual-axis solar programmable logical controller (PLC) based automatic solar tracking system and its supervisory and control system was designed and



implemented in this paper. The proposed automatic.



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[DESIGN OF SOLAR TRACKING SYSTEM USING PLC](#)

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Design and Implementation of a Two Axis Solar Tracking System Using PLC

This paper presents the design and implementation of an experimental study of a two-axis (Azimuth and Altitude) automatic control solar tracking system to measure the solar ...



[Design and Implementation of a Two Axis Solar ...](#)

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PLC Based Solar Tracking System

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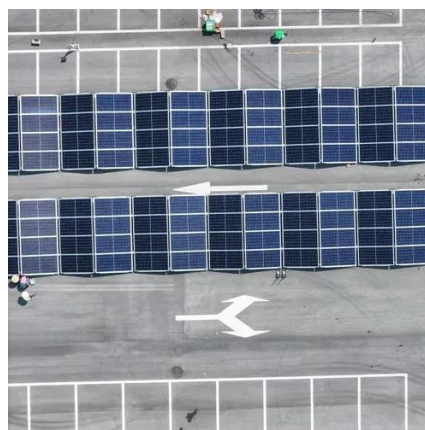


[Automatic Solar Tracking System Using Siemens PLC](#)

This research paper presents the design, implementation, and performance evaluation of a single-axis solar tracking system (SASTS) employing Siemens programmable logic controller (PLC) ...

[Design of Single Axis Solar Tracking System Using PLC](#)

This paper is proposed for a sun tracking system based on LDR sensor using PLC for rotating motor. The paper shows how to develop and implement a single axis solar tracking system ...



PLC BASED SOLAR TRACKING SYSTEM

The version described in the thesis implements a Siemens PLC based solution, relying on a tracking algorithm to locate the position of the sun; more specifically, the configuration of the ...

PLC Based Solar Tracking System



The circuit and the mechanism explained in this article may be considered as the easiest and perfect dual axis solar tracker system. The device is able to track the daytime motion of the sun ...

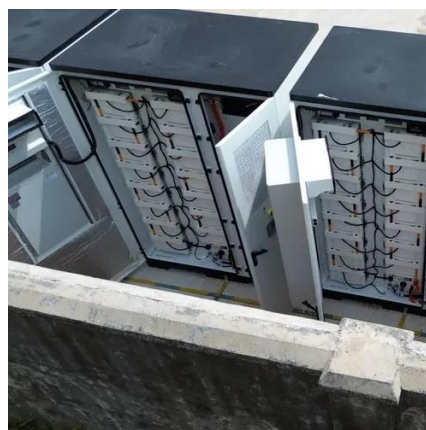


PLC Based Solar Tracking System

This process is conducted through the solar tracking and the calculation of the alignment for single axis tracking libraries, depending on whether the system is single or dual axis.

PLC Based Solar Tracking Panel Assembly

The system tracks by comparing the intensity of light falling on the sensors. Based on the sensors output the motor can rotate the solar panel to meet the sun's maximum position. Thus, solar ...



PLC based Solar Panel Tracking System with Automatic ...

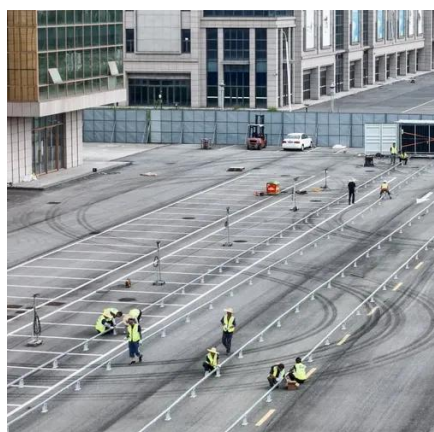
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