

Design of a solar panel control system that rotates to follow the sun's direction.

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Abstract: This topic focuses on the design and implementation of an automation system for solar panels, aiming to optimize performance by adjusting the panels' position to always face sunlight. The research method combines theory with experimentation, including the selection of mathematical models and testing the system in real-world fields. Expected results will contribute to sustainable development in the renewable energy industry, while providing effective solutions for investors and energy resource managers.

Keywords: Control system, solar energy, position optimization, automation, mathematical model