

Apia Solar Irrigation Pump





Overview

What is a solar-powered pumping irrigation system?

A solar-powered pumping irrigation system utilizes solar photovoltaic (PV) technology to convert solar energy into electrical power, which drives pumps for water lifting and irrigation. This system does not rely on fossil fuels and avoids environmental pollution.

What are the benefits of a solar-powered irrigation system?

Irrigation in remote areas – Unlike traditional electric or diesel-powered pumps, solar-powered systems work in off-grid locations, ensuring water access where conventional infrastructure is lacking. Eco-friendly – Solar energy is a clean, renewable resource, reducing carbon emissions and promoting sustainable farming.

How does a solar panel irrigation system work?

Solar panel The solar panel array converts sunlight into electricity, providing power to the irrigation system. The wattage of the solar panels depends on the pump's size and daily water requirements. **2. Motor pump** The motor pump is responsible for drawing water from a well, river, or reservoir and directing it to the irrigation system.

Can a solar-powered irrigation system be used to renovate a traditional irrigation system?

This paper presents a methodology for designing a solar-powered irrigation system and demonstrates its practical application in the renovation of a traditional irrigation system at a demonstration farmland. The system design begins by calculating the required water flow rate for the pump based on the farm's crop irrigation needs.



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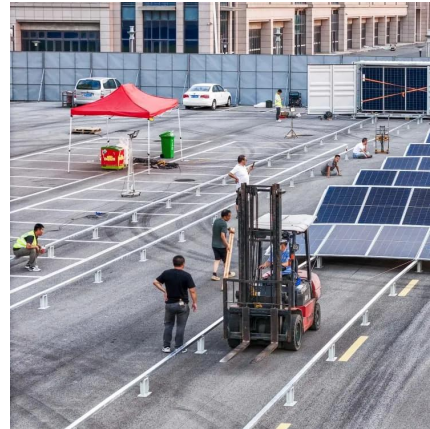
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Solar

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