

# **Solar water pump can be used when power outage occurs**





## Overview

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Can solar power power water pumps?

Photovoltaic panels use solar energy to directly generate electricity which could be used to power the electricity-operated water pumps. For the past several years, researchers have been focusing on the development of efficient solar-powered water pumping systems .

What is a solar pump used for?

Applications include: Livestock Watering Systems: Solar pumps can provide a reliable water source for livestock, ensuring they have access to fresh water throughout the day. Farmland Irrigation: Farmers can use solar pumps to irrigate crops, reducing dependence on traditional power sources and lowering operational costs.

Why do we need solar-powered water pumping systems?

In economic terms, the problem associated with the use of fossil fuel such as availability, transportation cost, price, and effect on the environment while the reduction in PV panel prices due to advancement in the PV technology; adds on increasing the feasibility of using solar-powered water pumping systems .

Are solar-powered water pumping systems clean?

It is clean, as it produces no carbon emission, it generates no noise, and it has low operational and maintenance cost. This manuscript presents a detailed intensive review of solar-powered water pumping systems as reported in the literature to serve as a quick reference to researchers and engineers who are working or interested in the subject.



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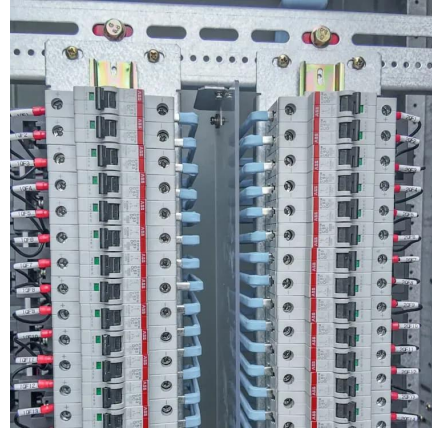


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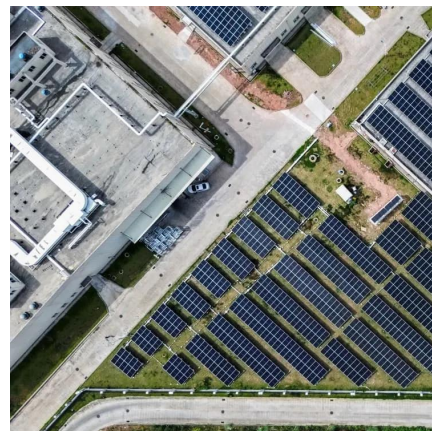
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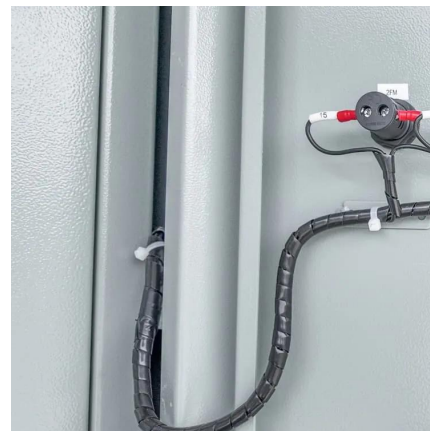


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