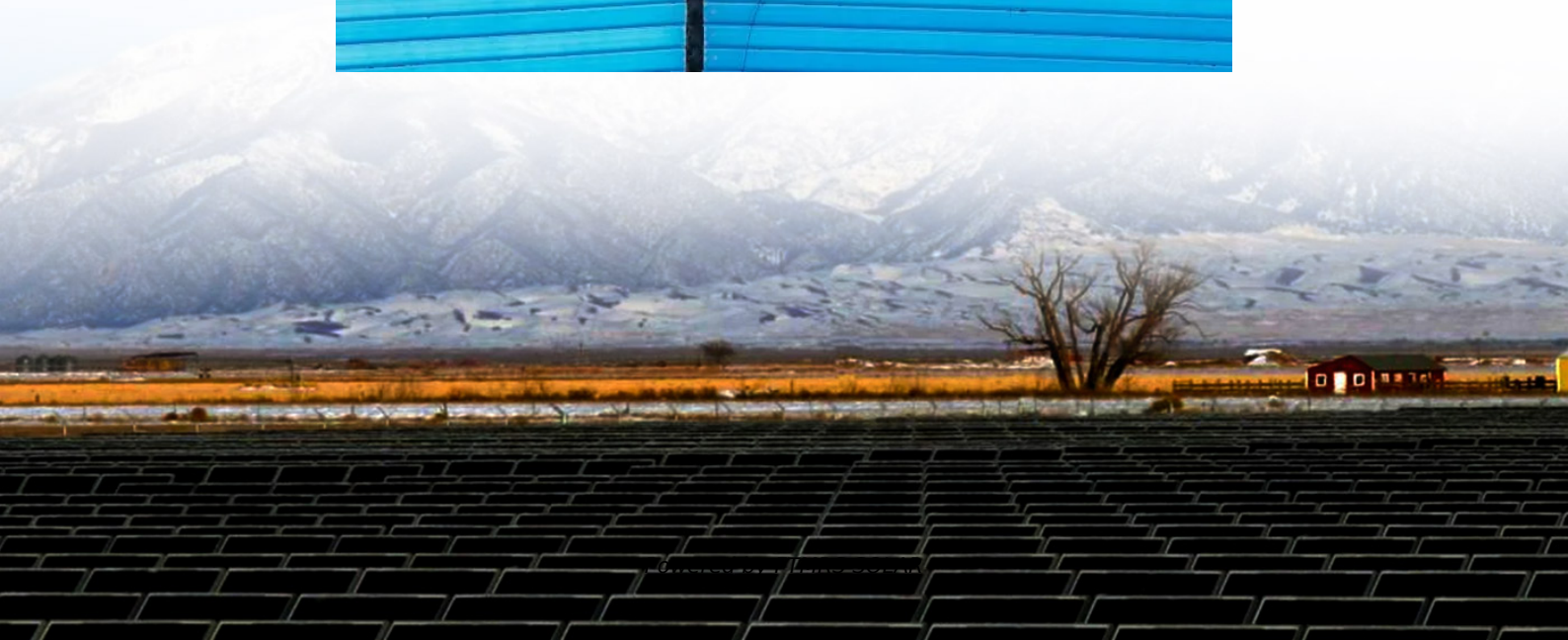
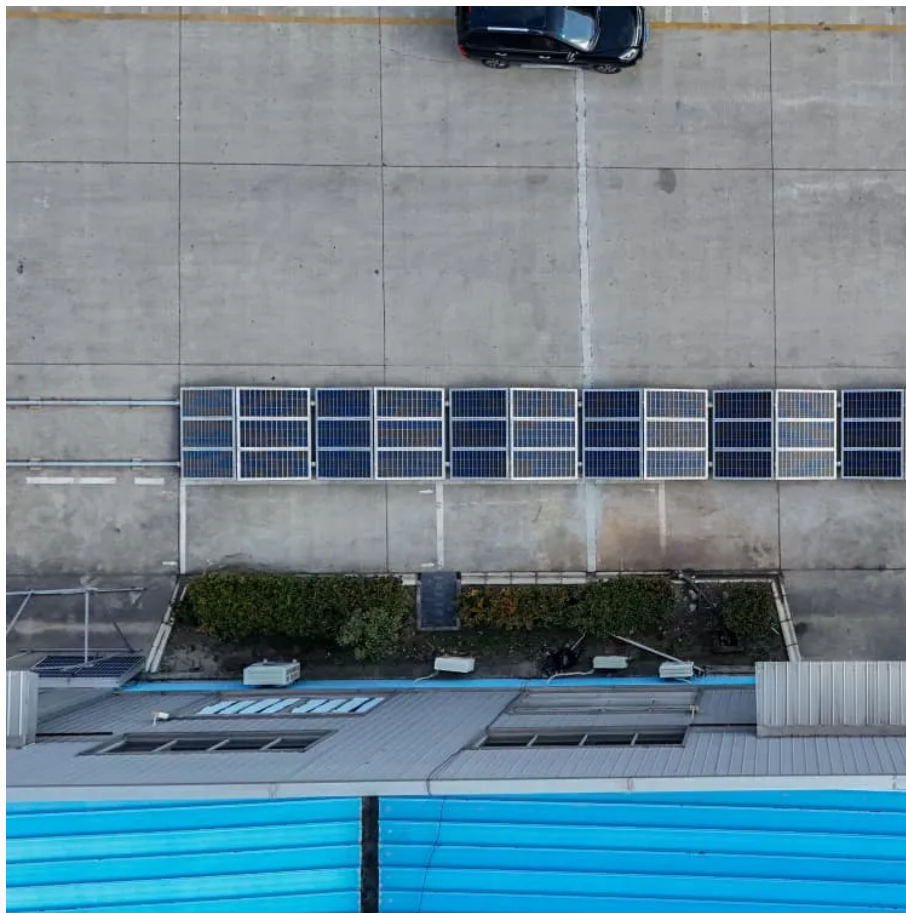


Solar water pump sprinkler system





Overview

Can a sprinkler with solar water pump save electricity and water?

This electrical energy is used to operate the water pump connected with sprinkler for irrigation. The main objective of the study is to present a best method for saving electricity and water. In a water irrigation system, the sprinkler with solar water pump is used to minimize the usage of water and reduce the consumption of electricity.

How a solar PV irrigation system works?

The pump will be operated with the power supply from the solar panel. The converter is used between the solar panel and water pump. The converter also used to charge the battery . Battery is used to supply energy to the pump during spraying of water at night time. The simple layout of solar PV irrigation system is shown in Fig. 1.

Can solar power be used with sprinkler irrigation systems?

Integrating solar power with sprinkler irrigation systems offers a sustainable and cost-effective solution for modern farming. Solar panels provide the necessary energy to operate the pumps, reducing reliance on traditional energy sources and lowering operational costs. Solar panels convert sunlight into electricity through photovoltaic cells.

How a sprinkler system works?

The sprinkler is used to spray water in the irrigation field for reducing the usage of water consumption. The photo- voltaic (PV) technology used for producing electricity is used to operate the motor used for solar pump.



Solar water pump sprinkler system

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