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Funafuti Solar Water Pump Production





Overview

The electricity deficit and higher fuel costs affect the water supply to irrigation requirements. Solar energy for water pumping is a promising alternative to conventional electricity and diesel-based pumping.

What is solar energy for water pumping?

Solar energy for water pumping is a promising alternative to conventional electricity and diesel-based pumping systems. The photo-voltaic (PV) technology used for solar water pumping is to convert solar energy into electrical energy. This electrical energy is used to operate the water pump connected with sprinkler for irrigation.

How efficient is solar water pumping?

Zaky et al. (2020) proposed an efficient and cost-effective solar pumping system in a laboratory-scale model. The Solar Photovoltaic (SPV) water pumping systems test performance is achieved to maximum efficiency of 28-65 % for AC pumps and 8-60 % for DC pumps, .

Can solar water pumping save electricity and water?

The photo-voltaic (PV) technology used for solar water pumping is to convert solar energy into electrical energy. 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.

Are solar water pumping systems cost-effective in developing countries like India?

The solar PV system-based water pumping plant is cost-effective in developing countries like India. This study compares remote solar water pumping systems, accounting various factors like site location, system size, and performance, in several climate-sensitive Indian regions.



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