

# Middle East Solar Water Pumping System





## Overview

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Can a hybrid renewable power system be used in Dubai?

This paper proposes a hybrid renewable and conventional power system for water supply applications in Dubai. Dubai is located in United Arab Emirates. The application uses solar panels and turbines in the renewable power system part besides Diesel generator in the conventional power system part. The proposed design considers weather conditions.

What is a hybrid water pumping system?

There are water pumping applications system that were proposed before involving conventional and renewable energy systems. One design was presented in Ref. [ 13] for hybrid water pumping system. It combined solar panels and wind turbines for operation. That design incorporated battery backup mechanism to be suitable in specific regions.

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How does a solar power system work?

The system uses regulator to stabilize the DC voltage from the solar power system, battery bank to store that voltage, three-phase rectifier to convert the voltage of wind turbines to DC, transformers to reduce the wind turbines' AC voltage and Diesel generator's AC voltage, and DC motor as the system output.



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