

The highest average value of 7.6 kWh / m² / month of solar radiation in all monitoring data years in July, while the minimum average value of 2.6 kWh / m² / month in December when the sun is at the lowest ...

The definitive guide to solar water pumps. We cover how they work, how to size the right panels and pump for your project, costs, and installation. Use our interactive calculator to design ...

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Continuous measurements of global solar radiation incident on horizontal surface for Baghdad area during the period from January 1977 to December 1987. Climatological data were recorded to determine the crop water ...

Shlama from the capital, Baghdad city, where our solar water pump project, which was implemented in partnership with USAID Middle East, won the 2023...

The study records the techno-economic benefits of an optimized demand-driven solar water pumping system with a paradigmatic example of its applicability to summer irrigation of winter wheat...

15 best solar powered water pumps and their reviews for 2026. These pumps create less noise, have low running costs and use solar energy.

This study introduces a refined techno-economic, demand-oriented methodology to assessment and optimization of solar water pumping systems in line with the needs of sustainable agriculture in...

Abstract: IRAQ has been described as having high solar-powered irrigation resources. The seasonal changes in climate have a direct effect on the determination of crop water requirements,...

This research presents the study, design and simulation of solar powered water pumping based system. The work starts with a general overview on solar pumping systems leading to the selection of a particular system ...

It is recommended to use the present solar energy pumping system in Iraq as it is one of the richest countries with solar power; however, suffers nowadays a scarcity of surface water.

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