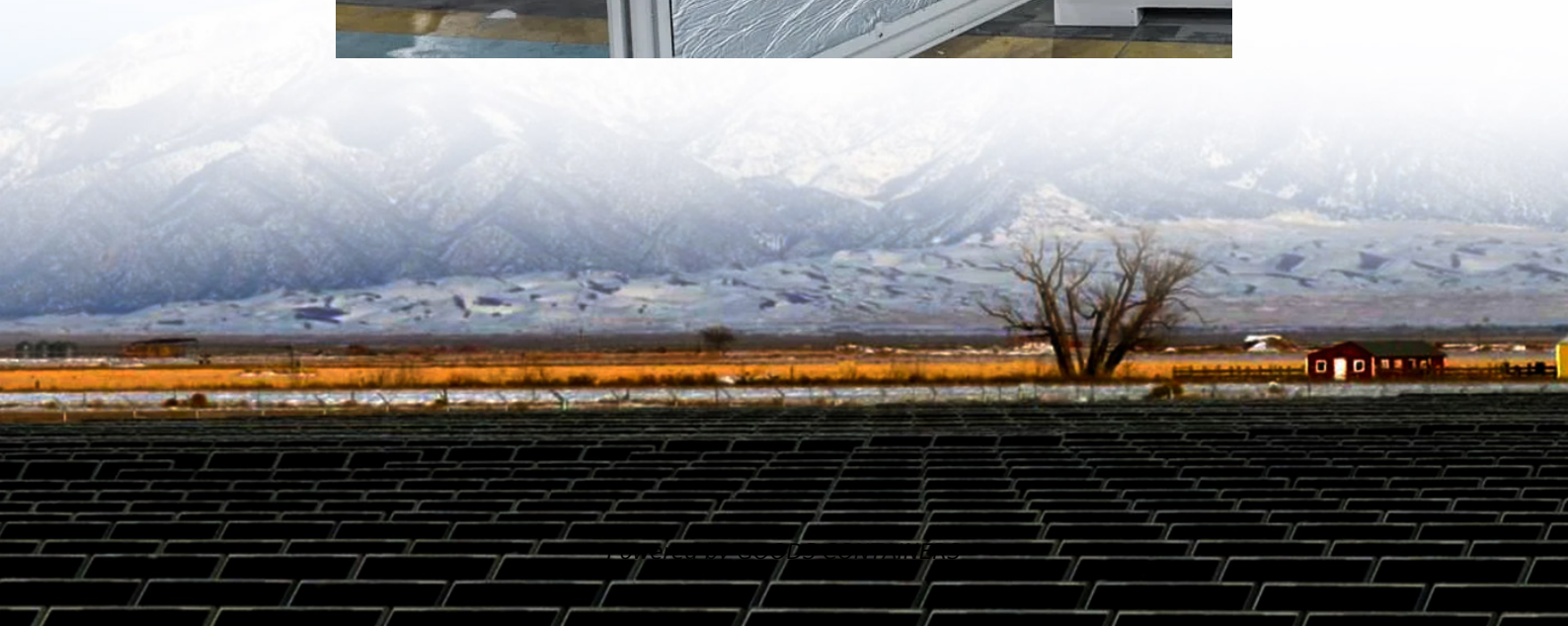


# **Sana Solar Water Pump System Recommendation**





## Overview

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How do you design a solar water pumping system?

When designing a solar pumping system, the designer must match the individual components together. A solar water pumping system consists of three major components: the solar array, pump controller and electric water pump (motor and pump) as shown in Figure 1.

How to choose a solar water pumping system?

The type of solar water pumping system: borehole/well (submerged), floating or surface will depend on the water source. If the source is a borehole (proposed or existing) or deep well, then a submersible pump that fits the borehole or well should be selected. If the water source is a river, then a surface pump should usually be selected.

Is solar powered water treatment better than hand pumping?

In this case, the use of a water treatment method designed to make the water safe for human consumption is essential. Indeed, a key advantage of solar powered pumping (or any mechanised pumping) over hand pumping is the ability to include in-line treatment in the water supply system.

What are the advantages of solar PV water pumping system?

Economic and environmental aspects were also discussed. Solar PV water pumping system is found to be more economical, eco-friendly, reliable, with less maintenance and a long life span in comparison to diesel-powered water pumps. 4-6 years of payback period is found for some of the systems.



## Sana Solar Water Pump System Recommendation

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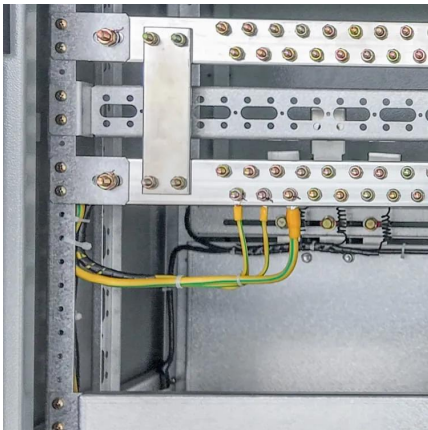
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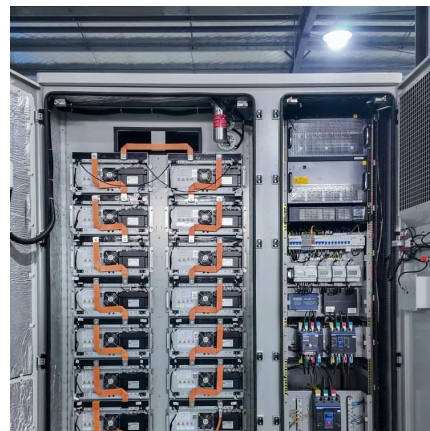
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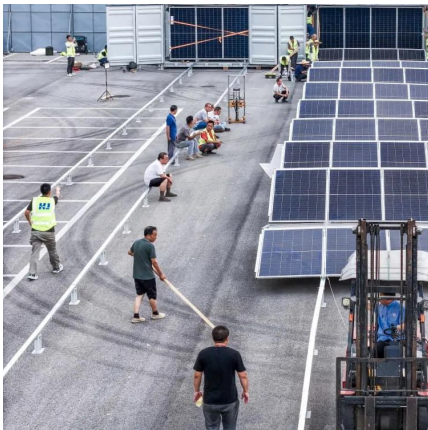
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