



GermanSolarZA

# Kyrgyzstan Customized Solar Water Pump Requirements





## 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.

What are the components of a solar water pumping system?

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. Note: Motor and pump are typically directly connected by one shaft and viewed as one unit, however occasionally belts or gears may be used to interconnect the two shafts.

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.

Does Kyrgyzstan have solar energy?

Kyrgyzstan's geographic location and climatic conditions are quite favourable for the broader development of solar energy, evident in solar radiation maps.



## Kyrgyzstan Customized Solar Water Pump Requirements



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Solar water pump definition A solar water pump is a mechanical pump powered by electricity generated using photovoltaic panels. It is popularly referred to as a solar water ...

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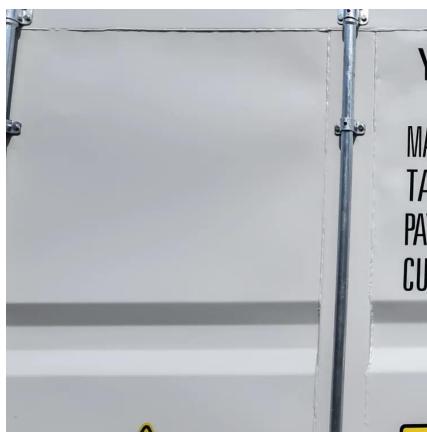
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## SOLAR WATER PUMPING SYSTEMS

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.

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