

## Solar Agriculture Pump / Solar Water Pumps

Mechanical pumps have a lot of uses nowadays. They are common in pumping water from wells, aquarium filtering, pond filtering and aeration. When it comes to water pumps, the main use of this device is the exchange of fluids such as water.

From agriculture to the energy industry, pumps are found in a wide range of applications. The main working principle of a water pump basically depends upon the positive displacement principle and kinetic energy which helps pushing the water.



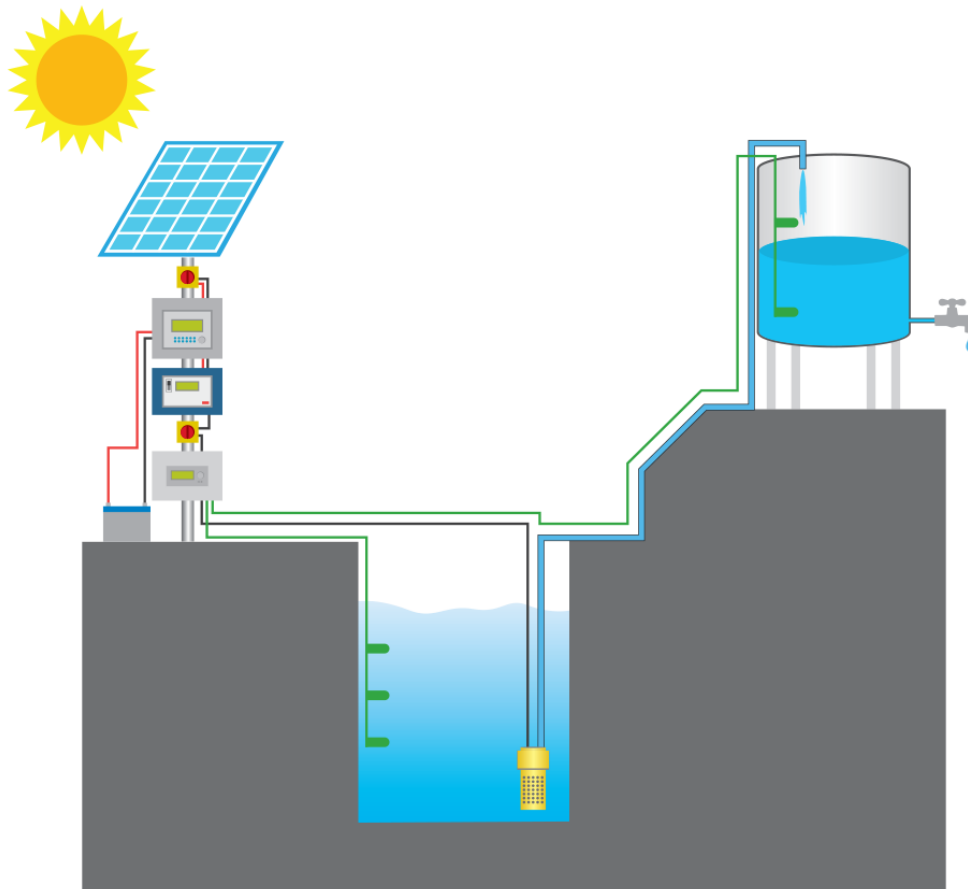
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Solar water pumps are a relatively new concept in mechanics. A solar water pump system is commonly seen in residential and commercial uses, as well as for irrigation of agricultural land. Through solar panels, the pump can eliminate the cost of energy and provide a more feasible option that uses energy from the sun (and not fuel-burning mechanisms) for pumping water.

### Classification and types of solar pumps

When it comes to stand-alone solar pumping systems, the main types include rotating and positive displacement pumps. Centrifugal pumps are the common choice for rotation and are designed for fixed head applications. Their output increases in proportion to their speed of rotation.

Additionally, pumps are also classified as submersible and surface pumps, based on their placement (underwater and above the waterline).

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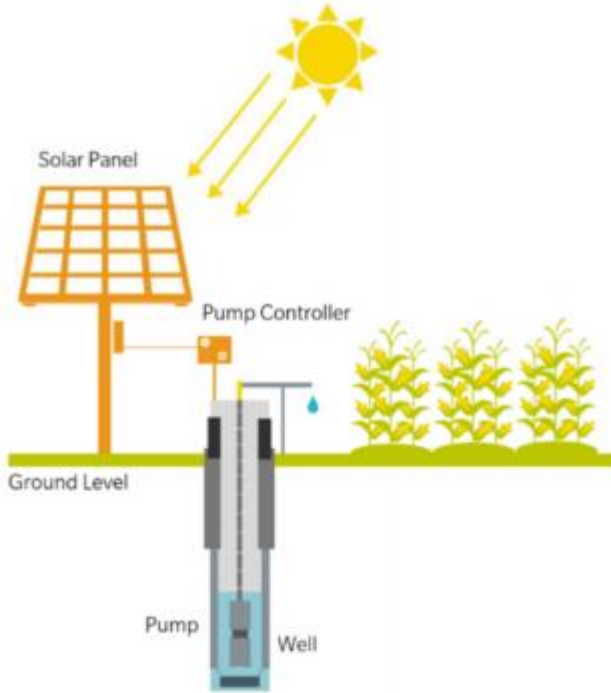
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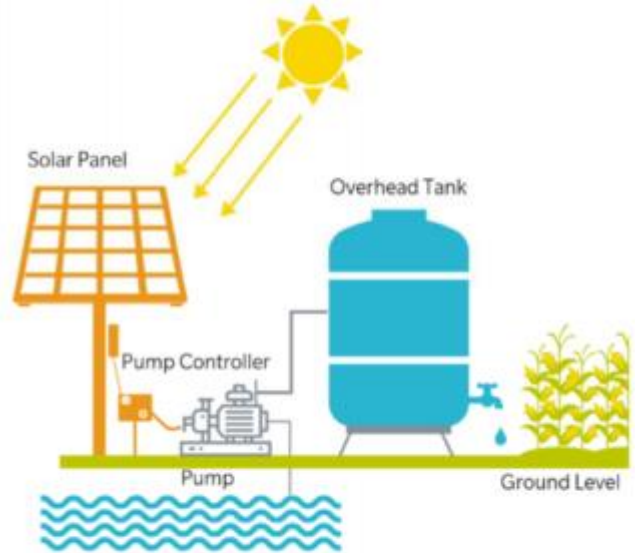
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## Solar Water Pump Types

Submersible Pump



Surface Pump



## Advantages of solar water pumps

- Solar panels can be reliable, even in regional and remote areas.
- They have extremely low operating costs.
- They're easy to transport and relocate.
- Solar pumps are generally low-maintenance.
- Productivity increases in times of need.

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