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Solar Water Pumping Systems



Solar water pumping is one of the most efficient ways to utilize solar energy. Since wells and other water sources tend to be in remote locations, using conventional energy sources entails either running extended lengths of wire or using a fossil fuel generator at the site. Since these traditional methods involve both expensive equipment costs, plus ongoing energy costs, solar energy is often both cost effective and efficient for well pumping.

A solar-powered water system is one of the easiest solar power systems to install, since you will not need a battery or battery charging equipment (unless 24 hour operation is required). When the sun is shining, the system is pumping, when the sun is not shining, the system is off.

A solar water pumping system consists of four main parts: the pump, the pump controller, the solar electric panels and a storage unit (Pond, Cattle trough, storage tank etc.). A solar water pump is sized based on the depth of the well and amount of water needed. The pump is powered by an array of solar electric panels. The current between the solar electric panels and the pump is controlled by a pump controller, which protects the pump from fluctuations in the current and helps to provide a steady output. The pump controller can also shut down the pump if required. A float switch can be connected to the controller to shut off the pump once the storage tank has reached full capacity.

Please allow CSRA Technology to design a custom system for your particular needs.

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