Solar Water Pump Guide
Solar water pumping – an efficient, low-maintenance and economical option for livestock, agricultural, recreational, and residential applications.

Our world is full of energy. As the largest company solely dedicated to renewable energy, with operations in more than 25 countries on 5 continents, Conergy is passionate about meeting even the most challenging technical demands and environmental conditions of the world’s energy users with clean, efficient solutions. With pioneering technology from Conergy and our premier vendor partners, we offer innovative systems that improve performance and return on investment while reducing operation and maintenance cost. We back our products with exceptional customer service, training and technical support. Working together with our customers, we build the best solution.

Commonly asked questions:

How does a solar pump work?
A solar electric array generates electricity from the sun’s light with no moving or wearing parts. A solar pump is designed to utilize the direct current from the array efficiently, even as the energy production varies throughout the day.

What happens when the sun doesn’t shine?
Depending on the application, a solar pumping system may use a water storage tank, which acts like a “Water Battery” during cloudy weather.

Is a solar water pump system more expensive than a “conventional” system?
Where utility power isn’t readily available solar systems are often the most economical option. Factoring in ALL costs, such as installation, fuel, maintenance and waste, solar water pumping is often less expensive than generators, windmills, and running electrical lines. With a solar water pump system a customer has an accurate forecast of the cost to run and maintain their pump system because they have paid their energy costs “up front.” There may be tax credits and incentives that lower investment costs.

How do solar systems compare to windmills?
Solar water pumping systems have many advantages over traditional windmill water pumps. Both the initial and lifetime costs of solar powered systems are often far less than windmills due to lower shipping, installation, and maintenance costs. Solar pumps operate anywhere the sun shines while windmills work where there is a steady, constant wind supply. Finally windmills are stationary while solar systems can be more easily moved to meet seasonal or variable location needs.

Is a DC solar pump utilized in off-grid home applications?
Yes. A typical off-grid system includes a PV-direct solar pump which draws from a well or surface water source and fills a storage tank. A second battery-based pump then draws from the storage tank and charges a pressure tank for household use. Filling a storage tank with a PV-direct pump is more efficient than using an AC pump. It is also more reliable, since the PV-direct pump is independent of the household power system.
Conergy is a leader in solar-powered surface pumps. We entered the market in 1983 with the manufacture of our first solar Slow Pump. Continuously growing and innovating in the off-grid market, we are now partnered with Grundfos, a leading name in groundwater pumps, and provide a full spectrum of surface and submersible wind or solar powered water pumping solutions. Conergy also offers a variety of optional complementary equipment including linear current boosters (LCBs), level control switches, valves, filters, strainers and pressure tanks.

Solar Pump Sizing Guide

**Step 1:** Provide this information to your Conergy Sales Manager for an accurate price quote.

**Step 2:** Contact Conergy for a price quote and system details.

**Step 3:** After the order is placed, Conergy technical support will assist with site design and installation questions.
Contact Information:

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