

# Can solar water pumps pay for themselves





## Overview

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Do solar water pumps save money?

In addition to the cost savings on energy, solar water pumps also have lower maintenance costs compared to traditional pumps. Solar pumps have fewer moving parts and are designed to be durable and low-maintenance. This reduces the need for frequent repairs and replacements, further contributing to cost savings.

How much does a solar water pump cost?

The cost varies dramatically. A small, all-in-one solar fountain pump kit can be \$20 - \$50. A larger solar well pump costs between \$1,200 and \$3,000, for an average of \$2,000. Prices depend on the well pump size, flow rate, and more. What are the disadvantages of a solar water pump?

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Are solar-powered water pumping systems better than electricity-based water pumps?

In contrast, conventional water pumping systems, reliant on electricity, contribute to noise pollution and generate air pollution. In Nepal's Gandaki Province, the solar-powered pumping system proved to be a more cost-effective and suitable alternative to electricity-based water pumping systems.

Is solar power pumping more cost-effective than electric pumping system?

The solar power pumping system is found to be more cost-effective. Seasonal variation of sunlight made a difference as the pump cannot lift full water in cloudy periods. The payback period of the selected project was higher than that of the electric pumping system.



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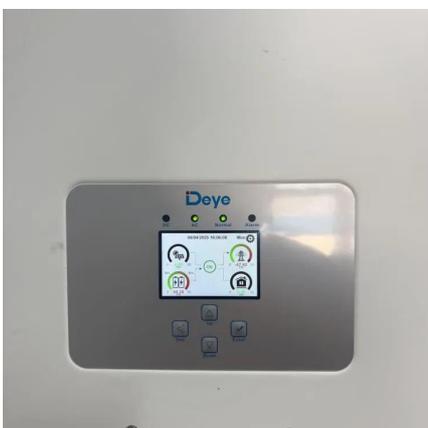
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