Ask an Alternative Energy Specialist

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ALTERNATE ENERGY ENGINEERING TECHNOLOGIST

HARVEST ENERGY SOLUTIONS
"Where Energy Matters"

I have a remote camp and have no access to electricity. What type of renewable energy system can I use to supply me the power I need??

The most commonly used system in a remote camp is a solar photovoltaic (PV) system.

A PV system incorporates several components that essentially take energy from the sun, store it in batteries, and convert it to household AC electricity.

Each component has its role to play, with the batteries being one of the most critical.

To put it in simple terms, picture a battery as a bucket of water. Energy captured from the sun is water put into the bucket. Energy taken out by lights, appliances, pumps etc, is water taken out of the bucket. The goal of a PV system design is to make sure the sun puts more energy into the battery than is required by the devices taking energy out.

Due to the variability of the sun, a PV system requires a backup power supply to keep the batteries full during periods of cloudy weather or the system will power down until the next sunny day.

Energy conservation is extremely important in a PV system. Each day there will be a different amount of energy harvested from the sun. You will get to know how much energy each load is using and when the best time to run each load is.

PV systems require little maintenance and are relatively easy to operate. Once a system has been designed and the parts are ordered in, a small camp size system can be installed and operational in as little as 2 days.

There is a relatively easy process involved to get a PV system. The first step is a site assessment. We will determine where the best location is to install the solar PV panels and all necessary equipment. Next, we will do a load analysis to determine what your electrical needs are going to be. Then will come up with a design and system price quotation. Once the quote is accepted we move on to the permit process. We then order in all the required material and book the installation dates. Finally we move on to installation and system commissioning.

The average time from initial site visit to installation is 4 to 6 weeks.

We offer financing through Homeworks Financial that makes these systems affordable with amortizing periods up to 120 months.

Give me a call today to discuss your camp, and let's see what kind of system we can design for you.

SOLAR Electric (PV)

WIND Power

SOLAR Space Heating (AIR)

SOLAR Domestic Hot Water

- Site Assessments
- Design & Installation
- Consulting
- Education & Training
- Sales & Service

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