



Residential wind solar hybrid system

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According to many renewable energy experts, a small "hybrid" electric system that combines homewind electricand homesolar electric (photovoltaic or PV) technologies offers several advantages over either single system.

Many hybrid systems arestand-alone systems, which operate "off-grid" -- that is, not connected to an electricity distribution system. For the times when neither the wind nor the solar system are producing, most hybrid systems provide power through batteries and/or an engine generator powered by conventional fuels, such as diesel. If the batteries run low, the engine generator can provide power and recharge the batteries.

Adding an engine generator makes the system more complex, but modern electronic controllers can operate these systems automatically. An engine generator can also reduce the size of the other components needed for the system. Keep in mind that the storage capacity must be large enough to supply electrical needs during non-charging periods. Battery banks are typically sized to supply the electric load for one to three days.

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When we bought our small-holding 10 years ago, we planned to go off-grid, and now we're finally ready to take that leap.

We decided against putting all our eggs in one basket; however, opting instead for a hybrid system that uses wind power in conjunction with solar. We hope this approach will provide an uninterrupted power supply throughout the year.

When winter comes, there's less sunlight available, and the wind is often stronger.

As a hybrid system utilizes both energy sources, it can provide a more consistent supply than any single source.

A hybrid wind-solar energy system consists of the following components:



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These hybrid systems operate off-grid, so you can't rely on an electricity distribution system in an emergency.

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