



Wind and solar off grid systems

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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.

Before you set your heart on a hybrid wind-solar energy kit, like this one, however, you should familiarize yourself with the laws governing the legality of wind turbines in residential areas.

Zoning laws may prohibit you from installing a wind turbine in your area, while building-code authorities often limit the height of structures in a residential zone to 35ft.

You would also need to comply with federal legislation restricting noise pollution in residential areas and the US Fish and Wildlife Service's wind turbine guidelines on protecting migrating and endangered birds.

With a wind turbine, solar panels, and a bank of batteries, you'll be one of the few people in the world to have power 24/7, 365 days a year. You'll have the sun producing energy during the day, the wind generating it at night, and the batteries storing it for up to five days.

With a hybrid energy system, you're hedging your bets. If the sun isn't shining, you've got the wind to fall back on. If that dies, you can turn to your backup generator or battery bank to keep you going. By taking this hybrid approach, you gain an energy system that's considerably more reliable than the US electric grid.

The charge controller within a hybrid solar-wind energy system provides a properly managed and consistent energy flow which isn't always possible with traditional energy sources.

Renewable energy systems are easy and cheap to maintain. Hybrid energy systems are even more cost-effective as the pressure is shared between the different energy-generating systems.

Although a hybrid energy system will save you money on your electricity bills, the upfront cost is pretty steep. The best hybrid wind-solar systems can cost anywhere between \$1800 and \$11,000, depending on your energy requirements. In many instances, these prices don't include batteries or installation.

You can reduce the initial outlay with a US Residential Renewable Energy Tax Credit and offset the remainder with the money you save on your monthly energy bills.

In a hybrid energy system, the batteries are outside and exposed to the elements, and the constant exposure to sun, rain, and wind will inevitably reduce their average life expectancy.



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With so many different components and a highly sophisticated charge controller, maintaining and monitoring a hybrid solar-wind system requires some knowledge and technical know-how.

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