



# Solar powered wind turbine

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It's advice most of us have heard since we were children: don't put all your eggs in one basket. That still holds true for renewable power systems. A wind turbine and solar panel combination helps you get the best performance from your setup.

There's a reason we're not called Missouri Wind or Solar. The combination of solar and wind technology helps you unlock the full potential of your turbines and panels. That improved experience helps turn renewable power doubters into believers.

Today, we want to outline the reasons why this combination is more effective than either system on its own, discuss some ways to set up your system, and some possible expansions and customizations of your wind and solar setup.

There's night even in the sunniest places and calm times on the windiest plains. But your power demands can't always conform to the availability of wind and sun. Fortunately, installing a hybrid system goes a long way to alleviating this issue.

Installing a feed inverter with your grid-tied system also allows many customers to effectively supply power back to the grid. This is called net metering, and it uses a bidirectional electrical meter to send excess power that your system generates back out. Depending on your specific utility, you may even be able to get money back on your bill (always check with your company or co-op first).

While having a grid-tied system with a battery backup-a requirement when incorporating a small wind turbine-does help protect you from losing power when the grid goes down, it's not foolproof. You must be conscientious about your power consumption while running on batteries, otherwise you'll use it up faster than it can charge.

Whether you're working to keep your battery bank charged or just to maximize your power production compared to your consumption on a grid-tied system, going with a wind turbine and solar panel combination goes a long way to helping you achieve energy independence.

It's also important to understand the difference between weather and climate. While you may live in an area that favors solar over wind or vice-versa, these distinctions can help you make a more informed judgment when planning your system.

Unless you purchase a wind and solar hybrid kit, which already includes a compatible controller, you need to look carefully at the charge control unit to make sure it can be used with both wind turbines and solar panels.



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Whether you're charging your batteries or powering your appliances, once the output of your solar panels meets your demands, the system achieves equilibrium and throws away incoming power that it doesn't need.

A wind turbine's generator turns kinetic energy into electricity, and it doesn't respond to an equilibrium in the same way a solar panel does. As long as the wind blows and the turbine is engaged, it will continue to generate power.

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