Power for your life

Can I save money by installing a solar energy system?

This question is being asked more and more as members are looking for ways to reduce energy costs. The answer is maybe, depending on many factors, and how fast you want to see a return on your investment.

Start with energy efficiency

Before installing a solar energy system, consider reducing your energy use by making your home more energy-efficient. Many energy efficiency measures have a faster return on investment, and the initial investment is less than that of a renewable energy system.

Is solar energy right for me?

If you have made your home as energy efficient as possible and now want to install a solar energy system, contact your local electric cooperative in the initial planning stages. Be sure to conduct thorough research on all aspects of any system before making the investment. Determine what your goal of the system is. For example, do you want to install solar energy because you believe it is the right thing to do? Or are you looking to save money? If you want to save money, carefully examine all the financial considerations first.



Consider this:

If you want to ensure you have power even if your cooperative has an outage, a battery system is required. This is an added expense, and will take about 30 percent of the solar system's power to keep the batteries charged.



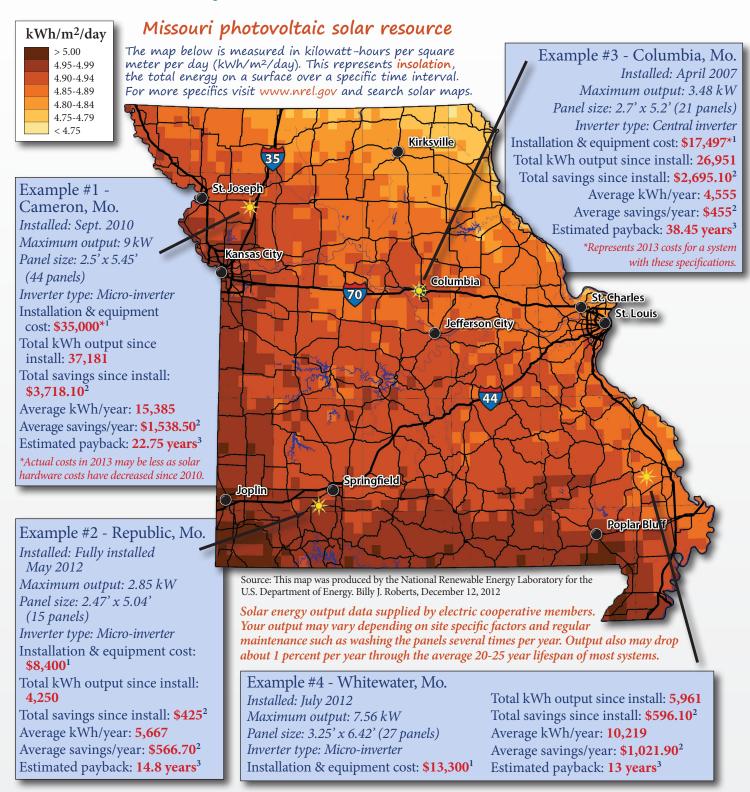
Financial considerations

When evaluating the potential of installing a solar electric system at a home or business, the Missouri Department of Natural Resources (DNR) recommends considerations should include:

- 1. Solar access: Missouri is fairly good in comparison to other parts of the country. Site specific access depends on installing the system so it is not shaded. See your location on the back page map for average output.
- 2. Retail cost of residential electricity: Missouri is low in comparison to many other parts of the country. A lower electric rate makes the return on investment length longer than a higher electric rate.
- 3. Available incentives: Certain solar energy systems may qualify for a Federal tax credit of 30 percent until 2016.
- **4.** The total cost of the system: The average installed cost of residential solar photovoltaic (PV) is \$5.21/watt, equaling \$26,050 for a 5 kW grid tie-in system.²

Given the information listed above, evaluate your situation to ensure installing a solar system makes sense financially for you. Talk to your electric cooperative and qualified, reputable solar contractors to help evaluate your feasibility for solar energy.

Residential solar system installations





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