



# Solar power for residential

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Community solar can allow all households and businesses to access the benefits of ...

Before deciding on the best way to use solar electricity at home, assess the ...

Learn how to assess your home's solar potential, options, and needs for going solar. Find resources, tools, and tips for choosing and installing a solar system that suit...

Is solar technology a good fit for the 21st century homeowner? Here's an overview of traditional and DIY solar options.

It's no secret that solar power and other renewable resources have seen a spike in interest, as consumers begin to embrace the technology and local and national governments incentivize its growth.

According to the Solar Energy Industries Association (SEIA), the total capacity of residential installations in the U.S. has more than doubled since 2016, while the average installation price per watt has decreased 27 percent in that same period.

If solar is on your radar but you've got questions about whether to take the plunge, read on for an overview of solar technology and whether it's a sustainable strategy for the modern homeowner. You can also visit [findsolar](#) to find out if solar power makes financial sense in your individual situation.

It seems like every year brings new technological or environmental changes that accelerate the acceptance of residential solar energy. Industry experts such as Jeff Barnes of Modernize Home Services have witnessed a seismic shift in the industry.

Today, Barnes says, customers opting into solar have reasons "Ranging from 'It's the right thing to do,' to 'I want to get off the grid,' or 'I want to save money.' The majority are drawn by these benefits in particular:

While there is a carbon cost in producing solar panels, renewable energy is the most environmentally friendly way to power your home. And if your utility company has the capability, you can even contribute to the grid, reducing your community's use of fossil fuels.

Properly sized and installed solar technology will pay for itself over time. Exactly how long depends on factors like what you pay for electricity, available green energy incentives, and the duration and intensity of sunshine throughout the year. Most residential solar installations after the initial cost pay for themselves over several years and become a net gain after that.



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A solar array can potentially provide critical functions such as refrigeration during blackouts, much in the same way a gas-powered generator can. But generators are expensive. The recent improvements in battery technology mean that your solar array can keep your power on all day and into the night. In fact, solar power helped Babcock Ranch--a town in Florida--experience minimal damage during Hurricane Ian.

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