



Residential solar heating systems

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As subject matter experts, we provide only objective information. We design every article to provide you with deeply-researched, factual, useful information so that you can make informed home electrification and financial decisions. We have:

Sourced the majority of our data from hundreds of thousands of quotes through our own marketplace.

Incorporated third-party data and information from primary sources, government agencies, educational institutions, peer-reviewed research, or well-researched nonprofit organizations.

Built our own database and rating system for solar equipment, including solar panels, inverters, and batteries.

We won't charge you anything to get quotes through our marketplace. Instead, installers and other service providers pay us a small fee to participate after we vet them for reliability and suitability. To learn more, read about how we make money, our Dispute Resolution Service, and our Editorial Guidelines.

You already know that solar panels can generate electricity for your home, but that's not all that solar energy can do - there are other solar technologies that make use of the sun's thermal energy to help heat up homes and lower one's heating bills.

Photovoltaic solar panels generate electricity, but energy from the sun can be used in different ways. One common way to use solar power is with solar heating systems, which convert solar energy into usable heat instead of electricity.

There are many ways to use solar energy to generate heat. Among the many uses for solar heat are the following:

Below, we'll briefly talk about each of these systems and discuss the pros, cons, and applications of each.

If you're looking to reduce the cost of heating water for your home or business, solar water heating (also known as solar hot water) is a great solution. With a solar water heating system, you can use the power of the sun to reduce your reliance on traditional heating sources (such as oil, electricity, and natural gas) in favor of an abundant and environmentally friendly energy source - the sun!

Solar hot water systems capture thermal energy from the sun and use it to heat water for your home. Systems can either be passive or active - while passive systems use gravity and natural circulation, active systems use pumps and controls to circulate water.



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Payback periods for a solar water heating system vary depending on how you currently heat your water. For example, the payback period for a solar hot water system that replaces natural gas will be longer than one that replaces electricity or gasoline because natural gas is a comparatively less expensive fuel. If you install a solar water heating system on your roof, you can expect significant annual returns dependent on your water use and the previous method of water heating. Plus, using a solar water heating system reduces your emissions and your home's impact on the environment.

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