



Incentives for installing solar panels

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The main incentive programs that allow homeowners to benefit from solar energy include:

With the average cost of solar energy systems coming in at around \$16,000, making the switch to solar is a substantial investment. Still, while the upfront numbers can feel intimidating, there are incentives at federal, state and local levels that can help ease the impact of solar panels for your home. This guide on solar tax credit by state will help you navigate the numerous offers available, saving you big on your installation cost and setting you up for long-term cost savings.

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A tax credit is a direct reduction in the amount of tax an individual or business owes to the government. Unlike tax deductions that reduce taxable income, tax credits eliminate the actual tax liability, providing a dollar-for-dollar reduction in taxes owed. Tax credits cover various areas, such as childcare, education and energy efficiency, incentivizing certain socially or economically beneficial actions by providing financial relief through the tax system.

Tax credits typically have specific eligibility criteria, meaning taxpayers must meet certain qualifications or undertake particular actions to qualify. Credits can vary in value, with some being fixed amounts based on qualifying steps taken or purchases made, while others offer a percentage of the total amount spent.

Also referred to as the solar Investment Tax Credit (or ITC), the federal solar tax credit aims to encourage investments in renewable solar energy. The tax credit covers a specific percentage of the solar system's costs, reducing the taxpayer's federal income tax liability by that amount. It applies to both solar panel equipment and installation costs but does not cover any structural modifications made to support the panel.

To qualify for the federal solar tax credit, the taxpayer must own the solar energy system. Those in a lease or a power purchase agreement (PPA) with the solar installer aren't eligible for the tax credit, as they aren't considered system owners. Additionally, the taxpayer's tax liability has to cover the amount of the credit. Any remaining credit can carry over to subsequent years if the full amount isn't met in that year's tax bill.

Congress implemented the Inflation Reduction Act in 2022, which brought several significant changes to the solar tax credit. Most notably, it extended the timeline to 2035 and increased the credit amount from 22% to 30% through 2032. Those who installed a system in 2022 and haven't claimed the credit yet can increase their credit amount to 30%.

The federal solar tax credit covers the following:



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You may qualify for the federal solar tax credit if your installation meets these criteria:

Pro Tip “There is also a business tax credit that can be used which is similar for large and small businesses as well as a direct pay tax credit that can be used for non-profits or other tax-exempt organizations.” – Roger Horowitz

To be eligible for the federal solar tax credit, you need to install a solar-powered energy system that provides electricity to a U.S. residence. Solar panels, solar water heaters and energy storage devices are all included in the credit.

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