

## ContainerPower Energy Solutions

# How much does it cost to generate solar power at home



## Overview

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Take control of your energy costs with solar power. Solar panels generate “free” electricity, but installing a system still costs money. A typical American household needs a 10-kilowatt (kW) system to adequately power their home, which costs \$28,241 in 2025. That price effectively drops to \$19,873.

How much do solar panels cost on average?

As of 2025, the average cost of residential solar panels in the U.S. is between \$15,000 and \$25,000 before incentives. This typically translates to about \$2.50 to \$3.50 per watt of installed capacity (more on price per watt below). The total price depends.

Solar panel costs range from \$16,600 to \$20,500 for the average 6.5 kW system, but prices can vary from as little as \$7,700 for smaller solar systems to upward of \$34,700 for larger systems. To find the most up-to-date solar panel costs in 2025, we compared research from the U.S. Department of

Understanding solar panel costs is a key step in deciding whether solar is the right investment for your home or business. Based on our 2025 survey of 1,000 solar customers, the national average price for a single solar panel professionally installed is \$1,200. This means most full-size systems of

As a homeowner eyeing solar, you wonder: Will the upfront hit pay off?

Good news, the average residential solar system costs \$20,000 to \$30,000 before perks, dropping to \$14,000 to \$21,000 after incentives. In this guide, we'll break it down, show real savings paths, and share steps from our. How

much does a home solar system cost?

In 2025, we surveyed 1,000 home solar customers across the U.S. to understand their experience shopping for and installing solar panel systems. Most homeowners said they paid around \$16,129 for a solar panel system, with an average of 14 solar panels installed.

How much do solar panels cost?

The price of solar panels changes depending on where you live, but the average for installation is just under \$29,000 or \$2.75 per watt. On the high end, we talked to a solar customer in Hawaii who spent \$100,000 going solar. Dion in Nevada said their 10-kW system cost about \$20,000, which is about the national average price for a 7-kW system.

How much does a 12 kW solar panel cost?

The average cost of an 12 kW solar panel installation on EnergySage is \$29,649 before available incentives. You'll typically save anywhere from \$27,000 to \$110,000 over 25 years by going solar. Solar panels are just 12% of the total cost of a solar panel installation.

How much does a solar system cost per watt?

As of publishing, the average cost per watt is \$2.84. Most solar companies set the price according to the solar system's wattage. A solar installation's "cost per watt" is a little like the "price per square foot" when you buy a house. It helps compare the value of solar energy systems in different sizes.

Does solar cost a lot?

The overall cost of solar can be influenced by the solar incentives available. Across the U.S., homeowners can apply for the federal solar tax credit. The solar tax credit makes installing solar more cost-effective by providing homeowners with a tax credit equal to 30% of the cost of their installed solar panel system.

How much do solar panels cost in New York?

As of 2024, the average cost of solar panels in New York is \$3.30 per watt, making a typical 6.9 kilowatt (kW) solar system \$16,632 after claiming the 30% federal solar tax credit now available. This is higher than the average price of residential solar power systems across the United States, which is

currently \$3.00 per watt.

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