

PDEOZE PowerContainer

Solar panel supporting price



Overview

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 between 20 and 30 panels cost between \$24,000 and \$36,000. 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.

Why do solar panels cost so much?

Where you live can heavily influence both the costs and installation practices for solar panels, which is why location is so important when considering your solar investment: Northeast: Generally, this region sees higher installation costs due to labor and equipment expenses.

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 does it cost to install and manage solar panels?

According to studies by the U.S. Department of Energy, the all-in cost of a home solar panel system is between \$2.74 to \$3.30 per watt. 1,2,12 This figure includes the solar panels, the installation, and other expenses.

How much does a solar panel upgrade cost?

Older homes might need electrical panel upgrades to handle solar input. If your main panel is under 200 amps or lacks sufficient breaker space, budget

an additional \$2,000 to \$4,000 for electrical upgrades. Permitting complexity varies dramatically by location. Some cities have streamlined solar permitting that adds minimal cost and delay.

How much does a 5 kW solar system cost?

Here's a snapshot of costs by state: Maryland: ~\$2.65 per watt before incentives, meaning a 5 kW system runs around \$13,200. After local incentives, larger systems (like 10 kW) can cost around \$23,500 New Jersey: \$2.62-\$2.82 per watt before incentives; a 5 kW system typically costs \$13,000-\$15,000.

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A study by the Department of Energy's Lawrence Berkeley Laboratory found homes with solar panels sold for an average cost of around \$15,000 more than comparable homes ...

Historic Low Pricing: Solar costs have reached unprecedented lows in 2025, with systems ranging from \$2.50-\$3.50 per watt installed, making the technology more accessible ...

In 2025, you'll see average solar panel costs across the United States that reflect the unique characteristics of each region. Factors like local economic conditions, installation methods, ...

Right now, the national average sits around \$2.84 per watt before incentives, though competitive markets can see prices as low as \$2.50 per watt. These prices have dropped dramatically over the past ...

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To find the most up-to-date solar panel costs in 2025, we compared research from the U.S. Department of Energy and prices from 54 retailers and manufacturers for popular solar panel

Find out the cost of solar panels, including installation and maintenance. Get insights into pricing and savings for switching to solar energy.

For residential systems, the cost of components of solar panels accounts 62% of the overall costing, while soft costs account for nearly 38%. In commercial installations, the hard ...

NREL's PV cost benchmarking work uses a bottom-up approach. First, analysts create a set of steps required for system installation. Next, they calculate the hardware, equipment, direct labor, and indirect ...

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Historic Low Pricing: Solar costs have reached unprecedented lows in 2025, with systems ranging from \$2.50-\$3.50 per watt installed, making the technology more accessible than ever before.

The falling cost of solar panels, coupled with the recent spike in grid electricity prices, have made home solar a reliable means of reducing your essential energy costs.

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