



BUHLE POWER

# Price of on-site energy from solar panels





## Overview

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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 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.

How much does a solar system cost in 2025?

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 after considering the full federal solar tax credit.

How much does solar cost per MWh?

Here's a detailed breakdown of current costs by major renewable technology. Utility-scale solar photovoltaic installations now achieve LCOE ranges of \$28-117 per MWh, with the best projects in high-irradiance regions reaching the lower end of this range.



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The levelised cost of electricity produced from most forms of renewable power continued to fall year-on-year in 2023, with solar PV leading the cost reductions, followed by offshore wind.



### Solar Panel Cost In 2025: It May Be Lower Than You Think

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