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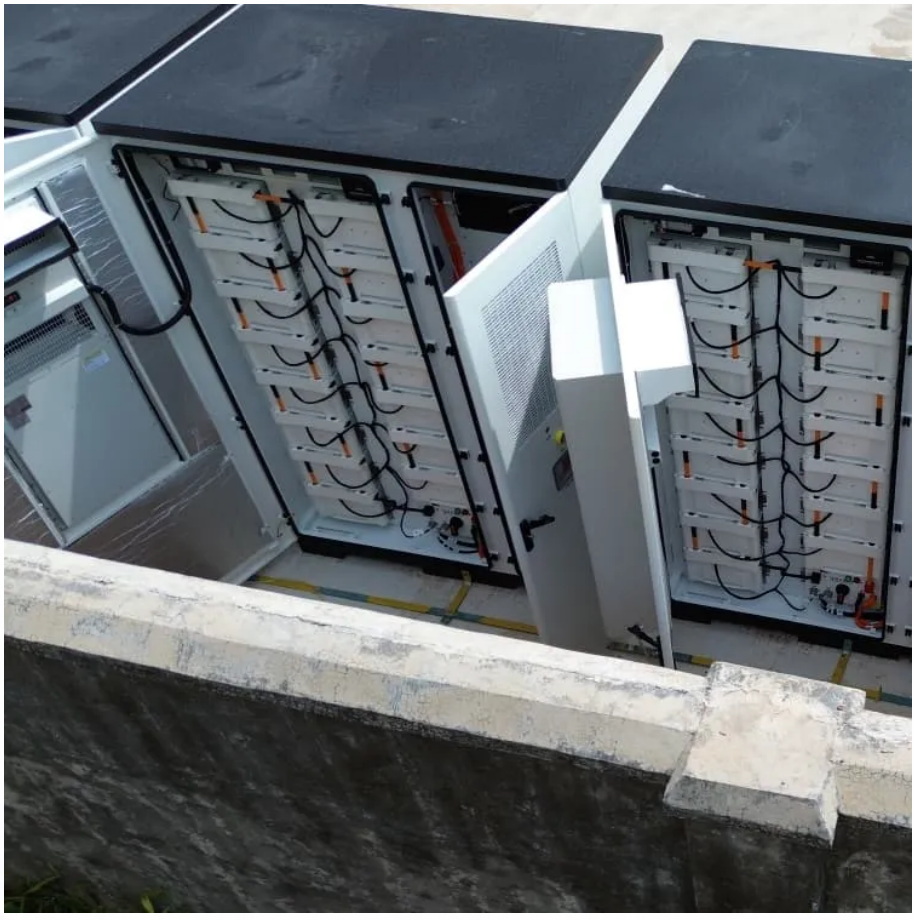
Rooftop PV panel prices



Overview

The expense associated with rooftop solar photovoltaic panels varies significantly but typically averages between 12,000 and 25,000 USD before incentives, impacted by 1. the size of the installation, 2. regional labor costs, 3. the type of panels selected, and 4. available tax rebates.

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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. NOTE: Under the “One Big Beautiful Bill Act” signed in July 2025, the federal solar.

NREL analyzes the total costs associated with installing photovoltaic (PV) systems for residential rooftop, commercial rooftop, and utility-scale ground-mount systems. This work has grown to include cost models for solar-plus-storage systems. NREL's PV cost benchmarking work uses a bottom-up.

Each year, the U.S. Department of Energy (DOE) Solar Energy Technologies Office (SETO) and its national laboratory partners analyze cost data for U.S. solar photovoltaic (PV) systems to develop cost benchmarks. These benchmarks help measure progress toward goals for reducing solar electricity costs.

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.

Solar panels cost about $30,000 on average—but often pay for themselves several times over through 25-30 years of electricity savings. Why trust EnergySage?

As subject matter experts, we provide only objective information. We design every article to provide you with deeply-researched, factual.

Solar panels cost $1,200 per panel, depending on the type of panel, home size, energy usage, and labor. Clicking “Get Your Estimate” submits your data to All Star Pros, which will process your data in accordance with the All Star Pros Privacy Policy. Compare Companies Average Cost Key Factors Cost. Can solar panels be installed on a rooftop for Zero Down?

Your options for buying, leasing, Purchasing Power Agreements (PPA, see below) are expanding, and many homeowners are getting solar panels installed on their rooftops for zero down. In this guide:.

Why are solar panels so expensive?

Since 2010, the cost to install solar panels on a home has fallen by roughly 50%. Costs rose slightly from 2020-2023 largely due to supply chain tangles from the pandemic, and then fell again in 2024. Prices have ticked upward slightly in 2025 due to tariffs and a rush for solar before the 30% consumer solar tax credit expires on December 31, 2025.

What is PV system cost model (pvscm)?

In the PV System Cost Model (PVSCM), the owner’s overnight capital expense (cash cost) for an installed PV system is divided into eight categories, which are the same for the utility-scale, commercial, and residential PV market segments: Module – The cost to the installer of photovoltaic modules, as delivered.

What is NREL's PV cost benchmarking work?

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How do market analysts evaluate the cost of PV systems?

Market analysts routinely monitor and report the average cost of PV systems and components, but more detail is needed to understand the impact of recent and future technology developments on cost. Consequently, benchmark systems in the utility-scale, commercial, and residential PV market

sectors are evaluated each year.

How efficient is a residential PV system in 2024?

The representative residential PV system (RPV) for 2024 has a rating of 8 kW dc (the sum of the system’s module ratings). Each module has an area (with frame) of 1.9 m 2 and a rated power of 400 watts, corresponding to an efficiency of 21.1%.

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