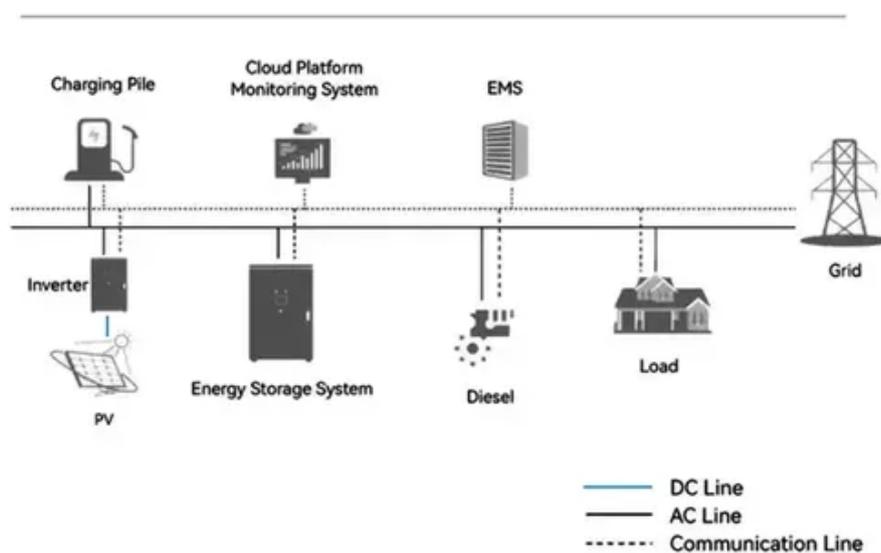




On-grid electricity price for photovoltaic panels

System Topology





Overview

As of 2026, the average cost of residential solar panels in the U. is between \$15,000 and \$25,000 before incentives. This typically translates to about \$2. 50 per watt of installed capacity (more on price per watt below). The total price depends on your system size, location, roof type. Each year, the U. Department of Energy (DOE) Solar Energy Technologies Office (SETO) and its national laboratory partners analyze cost data for U. solar photovoltaic (PV) systems to develop cost benchmarks. Data source: IRENA (2025); Nemet (2009); Farmer and Lafond (2016) - Learn more about this data Note: Costs are expressed in constant 2024 US\$ per watt. Global estimates are used before 2010; European market. This analysis provides a clear outlook on solar energy costs, examines projected price curves for 2025, and evaluates typical payback periods.



On-grid electricity price for photovoltaic panels

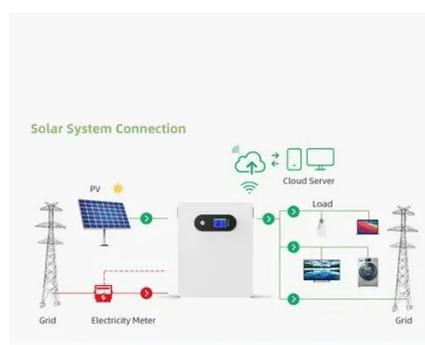


Solar Photovoltaic System Cost Benchmarks

The U.S. Department of Energy's solar office and its national laboratory partners analyze cost data for U.S. solar photovoltaic systems to develop cost benchmarks to measure progress towards goals and ...

Solar photovoltaic panel prices

Solar photovoltaic module prices refer to the cost of the solar panel itself, and do not include installation or other system components. Prices are compiled from three sources: Nemet ...

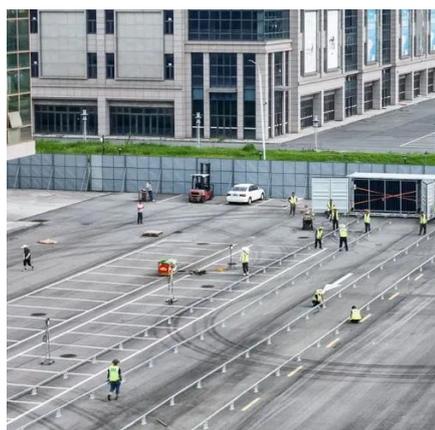


Solar Installed System Cost Analysis

NLR 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 ...

[Solar cost roadmap: 2025 price curves and payback averages](#)

According to the IEA's World Energy Investment 2023 report, solar PV modules were approximately 20% more expensive in early 2022 compared to one year prior. This increase was ...



[Solar panel cost in 2026: It may be lower than you think](#)

Understanding solar costs means looking beyond sticker prices. Right now, systems average about \$2.58 per watt before incentives. But this number varies depending on your location, ...

How Much Do Solar Panels Cost in 2026?

Solar installation costs vary significantly by location due to ...



How Much Do Solar Panels Cost? - Forbes Home

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.

[2026 Solar Panel Costs: Ultimate Guide to](#)



Pricing and Savings

Is the price of solar panels falling? The price of solar panels has declined substantially over the last decade as the industry has matured and reached production at the largest global scale. Since 2010, ...



Solar Power Cost Guide 2025: Complete Pricing & Savings

Cost per kWh shows the lifetime cost of solar electricity by dividing your net system cost by total expected energy production over 25 years. This typically ranges from 6-8 cents per kWh, ...

How Much Do Solar Panels Cost? (2026)

Residential solar panel systems cost \$0.09 to \$0.11 per kilowatt-hour (kWh) installed on average, though prices vary greatly depending on the type of panels and how much daily sun they ...



How Much Do Solar Panels Cost in 2026?

Solar installation costs vary significantly by location due to differences in labor rates, local incentives, permitting fees and electricity prices. The national average is around \$20,000.



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