



Analysis of photovoltaic panel price trends over the years





Overview

Prices are compiled from three sources: Nemet (2009) for 1975-2003, Farmer & Lafond (2016) for 2004-2009, and IRENA for 2010 onward. Due to limited data availability, we use the Global Price Index series reported by IRENA, based on pvXchange benchmark prices for modules sold. Note: Costs are expressed in constant 2024 US\$ per watt. Global estimates are used before 2010; European market benchmarks thereafter due to limited data availability. Solar photovoltaic module prices refer to the cost of the solar panel itself, and do not include installation or other system. The user wants to see the trend of solar panel prices over time, ideally in a graphical format. 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. This work has grown to include cost models for solar-plus-storage systems.



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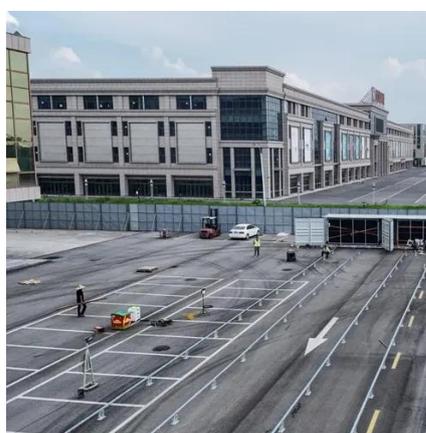


Solar photovoltaic panel prices

Prices are compiled from three sources: Nemet (2009) for 1975-2003, Farmer & Lafond (2016) for 2004-2009, and IRENA for 2010 onward. Due to limited data availability, we use the Global ...

Solar Panels Prices - Historical Graph

In 2025, the average cost of solar panel installations in the U.S. is about USD 2.84 per watt. This means a 4 kW system costs roughly USD 11,360, and a 10 kW system costs about USD 28,400 before tax ...



Solar Industry Research Data - SEIA

Solar's share of U.S. electricity generation has risen from less than 0.1% in 2010 to over 8% today. Solar has grown to play an increasing role in many states, now making up more than 20% of electricity ...

Updated report and data illustrate distributed solar pricing and design

We are pleased to announce the release of the latest edition of Berkeley Lab's Tracking the Sun annual report, describing trends for distributed solar photovoltaic (PV) systems in the United ...



[Solar Photovoltaic System Cost Benchmarks](#)

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 ...

Solar Installed System Cost Analysis , Solar Market Research & Analysis

NLR analyzes the total costs associated with installing photovoltaic (PV) systems for residential rooftop, commercial rooftop, and utility-scale ground-mount systems.



[Solar Panel Prices Trend Graph: Up-to-Date Insights for 2025](#)

Explore the latest solar panel prices trend graph to understand market dynamics. How do seasonal peaks affect pricing? Click to uncover actionable insights and optimize your investment ...



[Photovoltaic Panel Price Trends 2023-2030: Charts, Analysis](#)



Discover how solar panel costs have evolved since 2020 and what drives pricing fluctuations in today's renewable energy market.



[Evolution of solar PV module cost by data source, 1970 ...](#)

Evolution of solar PV module cost by data source, 1970-2020 - Chart and data by the International Energy Agency.

[How Has The Price And Efficiency Of Solar Panels Changed Over Time?](#)

Solar panels are about 60% cheaper and 40% more efficient than they were in 2010. Solar panels in 2010 cost about \$8.70 per watt and were about 15% efficient. Today, solar panels cost about \$3.00 ...





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