

This year s solar power generation price



Overview

Renewable Energy Has Achieved Cost Parity: Utility-scale solar (\$28-117/MWh) and onshore wind (\$23-139/MWh) now consistently outcompete fossil fuels, with coal costing \$68-166/MWh and natural gas \$77-130/MWh, making renewables the most economical choice for new electricity. Renewable Energy Has Achieved Cost Parity: Utility-scale solar (\$28-117/MWh) and onshore wind (\$23-139/MWh) now consistently outcompete fossil fuels, with coal costing \$68-166/MWh and natural gas \$77-130/MWh, making renewables the most economical choice for new electricity. Average price of solar modules, expressed in US dollars per watt, adjusted for inflation. 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. Globally, renewable power capacity is projected to increase almost 4 600 GW between 2025 and 2030 – double the deployment of the previous five years (2019-2024). For Solar PV, the LCOE calculation includes: Utility solar PV pricing refers to the cost of large-scale solar photovoltaic (PV) projects.



Article Content

Solar PV

Global year-on-year change in electricity generation 2025, by source Global share of solar consumption 2024, by country World's largest solar PV power plants worldwide 2024

Solar and wind power curtailments are increasing in California

However, in the spring, more solar energy than can be used within a day is often produced. Without more transmission capacity or a long-term storage solution, high curtailments

European electricity prices and costs

These wholesale prices are the largest single contributor to the electricity prices paid by consumers. The tool also shows the increasing cost competitiveness of wind and solar electricity

Global Market Outlook for Solar Power 2025-2029

With China implementing major changes to its solar market design this year, a temporary dip in global growth in 2026 appears very likely. Meanwhile, other regions are falling behind,

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World Energy Outlook 2025 – Analysis

For example: "Compare solar power generation in Asia under the Stated Policies Scenario versus the Current Policies Scenario for 2035." Use natural language:

Short-Term Energy Outlook

We expect coal consumption to decrease by 11% in 2026 compared with the same period last year. We anticipate total coal consumption from the

STEO Data Browser

Reserves, production, prices, employment and productivity, distribution, stocks, imports and exports. Includes hydropower, solar, wind, geothermal, biomass and ethanol. Uranium fuel,

Solar Market Insight Report – SEIA

US Solar Market Insight is a quarterly publication of Wood Mackenzie and the Solar Energy Industries Association (SEIA).

Cost Of Renewable Energy 2025: Complete Guide To Solar, Wind

This comprehensive guide examines the current state of renewable energy costs, comparing them to fossil fuel alternatives while exploring the factors driving these dramatic price

Executive summary - World Energy Investment 2025

Spending on low-emissions power generation has almost doubled over the past five years, led by solar PV. Investment in solar, both utility-scale and rooftop, is

Renewable Power Generation Costs in 2024

Total installed costs for renewable power decreased by more than 10% for all technologies between 2023 and 2024, except for offshore wind, where they remained relatively stable, and bioenergy,

Solar Power Cost Guide 2025: Complete Pricing & Savings

Solar power costs in 2025 represent exceptional value for most homeowners, with system prices at historic lows and electricity rates continuing to rise. The combination of the 30% federal tax

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Global Cost of Renewables to Continue Falling in 2025 as China

Meanwhile, the cost of a typical fixed-axis solar farm fell by 21% globally last year. Modules were sold at or below the cost of production, with no signs of the overcapacity in the solar

Solar Market Insight Report 2025 Year in Review - SEIA

Module prices fell 10% year-over-year as domestic prices declined, and global supply chains expanded to new regions like Indonesia, Laos and Ethiopia. Customer acquisition costs also

Near-700 GW Surge in 2025 Proves Renewable Energy Resilience

Geothermal energy: capacity grew at a similar rate to the previous year at 1.7%, adding 0.3 GW in 2025. The Philippines and Indonesia each contributed 0.1 GW of the additions, followed by

Latest Solar Price Chart and Dashboard • Carbon Credits

Solar Pricing and Price Charts. Solar prices across the world's most active residential, utility, and commercial PV (Photovoltaics) markets.

Solar photovoltaic panel prices

Solar photovoltaic panel prices Average price of solar modules, expressed in US dollars per watt, adjusted for inflation.

Renewable electricity – Renewables 2025 – Analysis

Higher retail electricity prices following the energy crisis, along with strong policy support, have encouraged individuals and businesses to install solar PV systems with the aim of reducing their

Lazard Releases 2025 Levelized Cost of Energy+ Report

Renewables Remain Competitive: Unsubsidized Wind & Solar Lowest Cost Generation Sources for Last 10 Years Despite facing macro

Solar and Storage Industry Research Data – SEIA

Solar and storage in the United States is booming. Along with our partners at Wood Mackenzie Power & Renewables, SEIA tracks trends and trajectories in the solar

ERCOT increasingly meets rising demand with solar, wind, and batteries

Since 2023, wind and solar generation, especially utility-scale solar, have been the fastest-growing sources of electricity in ERCOT and are increasingly meeting rising demand.

Contact Us

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