

Solar power generation cost update



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 . 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 generation in 2025. The median system price of large-scale, utility-owned PV systems in 2024 was \$1. 65/Wdc in the second half of 2024. While there was an increase in the cost of capital in various regions between Q1 2021 and Q4 2022, manufacturers' average selling prices have generally trended downwards over the longer term. For example . This paper presents average values of levelized costs for new generation resources as represented in the National Energy Modeling System (NEMS) for our Annual Energy Outlook 2025 (AEO2025) Reference case. 39/kilowatt-hours (kWh) to under \$0. 7 gigawatts direct current (GWdc) of capacity in Q3 2025, a 20% increase from Q3 2024, a 49% increase from Q2 2025, and the third largest quarter for deployment in the industry's history. Following a low second quarter, the industry is ramping up as the end of .

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Chart: The Cost of Energy , Statista

This chart shows the levelized cost of energy generation by source (in U.S. dollar per MWh).

Solar photovoltaic panel prices

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



Solar Market Insight Report Q4 2025

Rising retail rates and declining solar costs will drive a recovery in customer-owned systems. However, growth will slow slightly in 2030 as some states reach higher levels of market

[IRENA's 2024 Renewable Power Generation Costs Report Confirms](#)

The International Renewable Energy Agency (IRENA) has released its Renewable Power Generation Costs in 2024 report, confirming that renewables remain the most cost



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

Comprehensive 2025 guide to renewable energy costs. Compare solar, wind, and clean energy pricing vs fossil fuels. Includes latest LCOE data, trends, and projections.

Levelized Costs of New Generation Resources in the Annual

This paper presents average values of levelized costs for new generation resources as represented in the National Energy Modeling System (NEMS) for our Annual Energy Outlook 2025 (AEO2025)



Solar cost update 2025: CAPEX, O&M, LCOE, payback math

Explore solar costs in 2025, including CAPEX, O&M, LCOE, and payback periods. Discover how integrated solar and energy storage solutions enhance investment returns and energy

Spring 2025 Solar Industry Update

EnergySage reported that the median gross cost of stand-alone PV was \$2.65/Wdc in the second half of 2024. Module spot prices rose 2% in Q1 2025 and remained around \$0.09/Wdc.



Quarterly Solar Industry Update

Each presentation focuses on global and U.S. supply and demand, module and system price, investment trends and business models, and updates on U.S. government programs

Utility-Scale Solar Data Update , Energy Markets

Lawrence Berkeley National Laboratory compiled and synthesized empirical data on the U.S. utility-scale solar sector.



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