



Electricity cost of each solar power generation



Overview

These benchmarks help measure progress toward goals for reducing solar electricity costs and guide SETO research and development programs. Numbers calculated by financial advisory Lazard as of June 2025 estimate price ranges for the generation of one MWh of energy by different sources. While the data shows that it is always cheapest to produce electricity from fully depreciated facilities, renewable energy can nevertheless compete in. Different methods of electricity generation can incur a variety of different costs, which can be divided into three general categories: 1) wholesale costs, or all costs paid by utilities associated with acquiring and distributing electricity to consumers, 2) retail costs paid by consumers, and 3). 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. Ember (2026); Energy Institute - Statistical Review of World Energy (2025) – with major. 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.



Article Content

America's Cheapest Sources of Electricity in 2024

Learn about the cheapest sources of electricity in 2024 in America. From wind to solar to fossil fuels, NPUC breaks down how expensive each is.

Cost and Performance Characteristics of New Generating ...

Table 2 shows a full listing of the overnight costs for each technology and electricity region, if the resource or technology is available to be built in the given region.

Solar power generation, 2025

This dataset contains yearly electricity generation, capacity, emissions, import and demand data for over 200 geographies. You can find ...

Solar Photovoltaic System Cost Benchmarks

These benchmarks help measure progress toward goals for reducing solar electricity costs and guide SETO research and development programs. Read ...

Cost of electricity by source

OverviewRegional studiesCost metricsCost factorsGlobal studiesSee alsoFurther reading

In 2020, BNEF estimated the following costs for electricity generation in Australia: It can be seen from the following table that the cost of renewable energy, particularly photovoltaics, is falling very rapidly. As of 2017, the cost of electricity generation from photovoltaics, for example, has fallen by almost 75% within 7 years. In the United Kingdom, a feed-in tariff of £92.50/MWh at 2012 prices (currently the equivalent of €131/...

Cost of Electricity Generation by Source

As of 2023, solar is 14% cheaper than energy produced by gas. But if we look back to 2009, solar was 433% more costly than energy generated by ...

Chart: The Cost of Energy | Statista

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

Renewable Power Generation Costs in 2024

Nevertheless, the combination of capacity factors, market share, and financing costs led to a slight increase in the levelised cost of electricity (LCOE) for some technologies: solar PV by 0.6%, onshore ...

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.

Types of Energy Ranked by Cost Per Megawatt Hour

Solar power has recently become the cheapest energy source in history, as mentioned above. And of the wind, solar, and other renewable energy sources ...

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