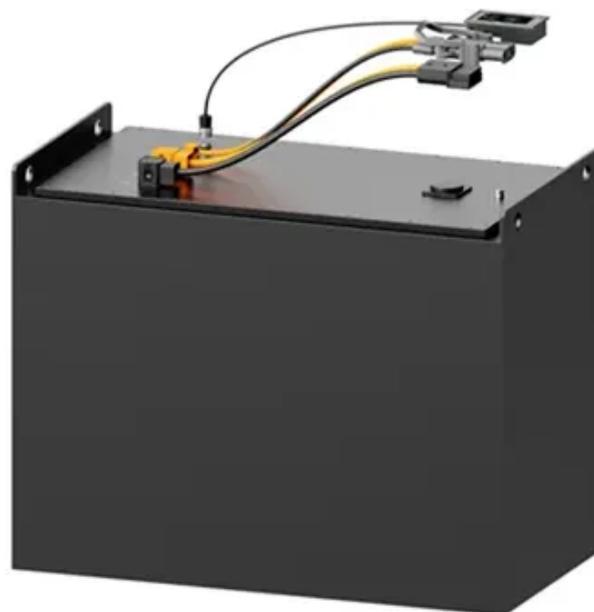




Wind power solar power coal power generation cost





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. 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. 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). The average cost per unit of energy generated across the lifetime of a new power plant. This data is expressed in US dollars per kilowatt-hour. It is adjusted for inflation but does not account for differences in living costs between countries. Data source: IRENA (2025); IRENA (2024) - Learn more. 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. The estimates include only resources owned by the electric power sector, not those owned in. Numbers calculated by financial advisory Lazard as of June 2025 estimate price ranges for the generation of one MWh of energy by different sources. Projected change in price by fuel type, 2022-2050 Solar, wind, and hydropower are based on the projected levelized cost of energy, which includes capital expenditures and operating costs, while natural gas, coal, and nuclear are based on the projected cost of only the heat content of these plants.



Wind power solar power coal power generation cost



[Estimating the Real Cost of Electricity from Solar, Wind, and Coal](#)

Do you think solar and wind electric generation are cheaper than coal-fired electricity? Think again! To estimate the true cost of wind and solar energy when redundancy requirements are ...

2024's Average Cost of Renewable Energy: A Guide

The levelized cost of electricity (LCOE) for technologies like solar and wind power represents the per-unit cost of electricity generation over the entire lifespan of a power plant, ...



[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 ...](#)

Levelized cost of electricity (LCOE) and levelized cost of storage (LCOS) represent the estimated costs required to build and operate a generator and diurnal storage, respectively, over a specified cost ...



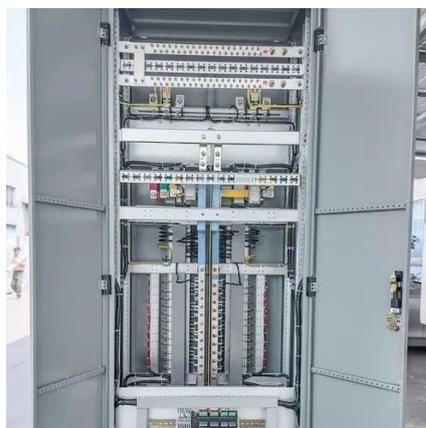
Chart: The Cost of Energy , Statista

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



Levelized cost of energy for renewables, World

The average cost per unit of energy generated across the lifetime of a new power plant. This data is expressed in US dollars per kilowatt-hour. It is adjusted for inflation but does not account for ...



Capital Cost of Power Generation by Source

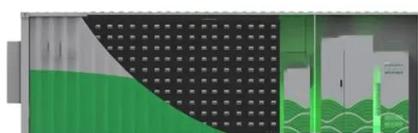
Capital cost of power generation, by source, for natural gas, biogas, wind, solar, coal, hydro and nuclear vs years to construct.



Cost of electricity by source



Capital costs tend to be low for gas and oil power stations; moderate for onshore wind turbines and solar PV (photovoltaics); higher for coal plants and higher still for waste-to-energy, wave and tidal, solar ...



What Will It Cost To Generate Electricity?

Solar, wind, and hydropower are based on the projected levelized cost of energy, which includes capital expenditures and operating costs, while natural gas, coal, and nuclear are based on ...

[Analysis: Yes, coal & natural gas remain much cheaper than wind](#)

The peer-reviewed Energy study analyzes these factors and presents an apples-to-apples cost comparison on the full-system cost of wind, solar, coal, natural gas and nuclear power.





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