

**PIENAAR ENERGY (PTY) LTD**

# **Wind power and photovoltaic power generation prices**



## Overview

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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 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. Abu Dhabi, United Arab Emirates, 22 July 2025 - Renewables maintain their cost leadership in global power markets, IRENA's new report on Renewable Power Generation Costs in 2024 confirms. The report confirms that renewables maintained their price advantage over fossil fuels, with cost declines. Solar and wind power have become increasingly cost-competitive over the past decade, prompting claims that they are now the cheapest sources of new electricity.

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### **ELECTRICITY MARKET IMPACTS OF WIND AND SOLAR**

Since wind and solar power have no fuel cost, they push the price down by replacing more expensive fuel-consuming power plants. As wind and solar gradually become the primary power supply ...

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### **Despite low gas prices, solar, wind remain cheapest sources of power ...**

Solar and wind remain the most competitive sources of electricity on an unsubsidized basis in the United States, despite persistent low natural gas prices, according to a new report by ...



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### **Solar and Wind's Hidden Price Tag: Why Cost Isn't the Whole Story**

Uncover more realistic prices of solar and wind energy and understand the implications for the future of renewable electricity generation.

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## Cost of electricity by source

For utility-scale generation put into service in 2040, the EIA estimated in 2015 that there would be further reductions in the constant-dollar cost of concentrated solar power (CSP) (down 18%), solar ...

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## 91% of New Renewable Projects Now Cheaper Than Fossil Fuels ...

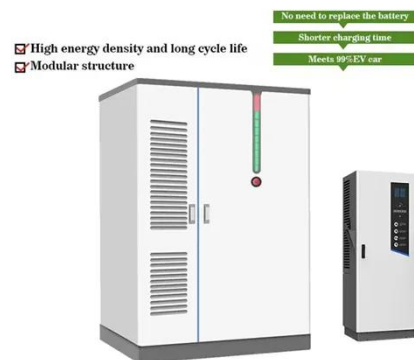
In 2024, solar photovoltaics (PV) were, on average, 41% cheaper than the lowest-cost fossil fuel alternatives, while onshore wind projects were 53% cheaper. Onshore wind remained the ...

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## Will Wind and Solar Power Raise Energy Prices?

Environmentalists, citing the falling costs of wind turbines and photovoltaic panels, tend to agree with Bill McKibben that "power from the sun and wind is now the cheapest power in the

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## 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.

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## Wind and Solar Energy Are Cheaper Than Electricity from Fossil-Fuel

It finds that those prices range from as low as \$71 per MWh for unsubsidized wind in the Midwest to as high as \$164 for solar-plus-storage in the mid-Atlantic. This story also appears in



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## 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 ...

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## Cost and Performance Characteristics of New Generating ...

Table 1 represents our assessment of the cost to develop and install various generating technologies used in the electric power sector. Generating technologies typically found in end-use applications, ...

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