

Electricity price of onshore wind power generation project



Overview

It shows unsubsidized new onshore wind costs ranging from \$26-\$50 per MWh. This compares to \$45-74 per MWh for the least expensive new plant using conventional sources, which is a new gas-fired combined cycle plant. The 13th annual Cost of Wind Energy Review uses representative utility-scale and distributed wind energy projects to estimate the levelized cost of energy (LCOE) for land-based and offshore wind power plants in the United States. – Data and results are derived from 2023 commissioned plants. The latest cost analysis from IRENA shows that renewables continued to represent the most cost-competitive source of new electricity generation in 2024. This data is expressed in US dollars per kilowatt-hour. Data source: IRENA (2025); IRENA (2024) – Learn more.

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[What is the Cost of Onshore Wind Energy?](#)

The cost of onshore wind energy can vary depending on factors such as location, turbine size, project scale, and local regulatory conditions. However, in recent years, the cost of onshore wind power has ...

[Levelized cost of energy for renewables. World](#)

Solar (photovoltaic) panels cumulative capacity
Solar and wind power generation
Solar energy generation by region
Solar energy generation vs. capacity
Solar photovoltaic module prices vs. ...



[How Much Does A Wind Turbine Cost?](#)

Modern best-in-class 1-3+ megawatt onshore wind turbines generally cost approximately \$1.3 million to \$2.2 million per megawatt in upfront equipment capital and manufacturing expenses.



[Cost of Wind Energy Review: 2024 Edition](#)

The 13th annual Cost of Wind Energy Review uses representative utility-scale and distributed wind energy projects to estimate the levelized cost of energy (LCOE) for land-based and offshore wind ...



[IRENA Report: onshore and offshore wind -- the most cost ...](#)

Onshore wind has consistently proven its affordability, retaining its position as the most affordable source of new power generation globally with a weighted average Levelised Cost of ...

[Wind Turbine Cost Guide 2025: Complete Pricing Breakdown \(\\$700 ...](#)

Whether you're considering a small residential turbine or evaluating a large commercial wind farm investment, the comprehensive cost analysis framework presented in this guide provides ...



[Average U.S. construction cost for onshore wind generation ...](#)

The average U.S. construction cost for onshore wind generators fell from \$1,895 per kilowatt (kW) in 2013 to \$1,391/kW in 2019, according to our latest construction cost data. However, ...



Levelized cost of onshore wind?

The levelized cost of onshore wind is estimated in this economic model, at 5-7c/kWh to generate 5-10% levered IRRs on new wind projects costing \$1,000-3,000/kW. The model also contains a granular ...



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 ...

What is the cost of electricity produced from wind energy?

It shows unsubsidized new onshore wind costs ranging from \$26-\$50 per MWh. This compares to \$45-74 per MWh for the least expensive new plant using conventional sources, which is ...



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