

PIENAAR ENERGY (PTY) LTD

400 MW of wind power generation per year



Overview

In 2022, wind turbines were the source of about 10. utility-scale electricity generation. This includes both onshore and offshore wind sources. Data source: Ember (2026); Energy Institute - Statistical Review of World Energy (2025) - Learn more about this data Measured in terawatt-hours. Ember (2026);. The data and results in this analysis are derived from the prior year's 2023 commissioned plants, representative industry data, and state-of-the-art modeling capabilities used to inform Fiscal Year 2024 values in the report. The authors would like to thank Patrick Gilman (U. Department of Energy. The world's wind power sector recorded strong growth in the first half of 2025, with global installations rising by 64% compared to the same period of 2024. Government requirements and financial incentives for renewable energy in the United States and in other countries have contributed to. The U. Department of Energy's annual offshore, land-based, and distributed wind market reports, released in August 2024, show that the passage of the Inflation Reduction Act (IRA) led to significant increases in near-term wind deployment forecasts and has motivated billions of dollars of funding.

400 MW of wind power generation per year



DOE Releases New Reports Highlighting Record Growth, Declining Costs ...

The U.S. Department of Energy today released three reports showing record growth in land-based wind energy, significant expansion of the pipeline for offshore wind projects, and ...

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Wind power generation, 2025

Annual electricity generation from wind is measured in terawatt-hours (TWh) per year. This includes both onshore and offshore wind sources.

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Wind Energy Factsheet

Global wind capacity increased by 12% annually in the last decade, reaching 1,021 GW in 2023. China led wind energy development in 2023, both in terms of new and cumulative capacity, followed by the ...

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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

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Standard 20ft containers



Standard 40ft containers

Wind Power by Country 2026

While this rate of expansion still falls short of the global "Net Zero Emissions by 2050" target, it offers a clear signal that global investment in wind power is rising. This growth also enabled a record

...

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Wind Energy Factsheet

U.S. wind energy generation avoids 351 Mt of CO2 emissions annually. 26 If 35% of U.S. electricity was wind-generated by 2050, the electricity sector would reduce GHG emissions by 23%, eliminate 510 ...

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Wind Power Facts and Information , ACP , ACP

Today nearly 84,000 onshore wind turbines across the country are generating clean, reliable power. Wind



power capacity totals over 155 GW, making it the fourth-largest source of electricity generation ...

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WWEA Half-year Report 2025: Global Wind Power Growth ...

The world's wind power sector recorded strong growth in the first half of 2025, with global installations rising by 64% compared to the same period of 2024. A total of 72,2 gigawatts ...

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Wind Market Reports: 2024 Edition , Department of Energy

The Land-Based Wind Market Report: 2024 Edition provides an overview of trends in the U.S. wind power market, with a particular focus on the year 2023. This report primarily focuses on land-based, ...

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Electricity generation from wind

In 2022, wind turbines were the source of about 10.3% of total U.S. utility-scale

electricity generation. Utility scale includes facilities with at least one megawatt (1,000 kilowatts) of electricity

...

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