

Wind power blade cost



Overview

Blade price ranges by size category (assumptions: standard glass/ carbon fiber composites, single-piece or segmented blades, and normal production runs): Low \$120,000–\$170,000; Average \$180,000–\$260,000; High \$300,000–\$350,000 per blade. For a typical utility-scale blade, buyers should expect a per-blade price in the low-to-mid six figures, with total project costs reflecting multiple blades and related services. The figures below summarize total project ranges and per-unit ranges with reasonable assumptions about turbine size and. This report is available at no cost from the National Renewable Energy Laboratory (NREL) at www.nrel.gov/wind/analysis/blade_cost_model/. A Detailed Wind Turbine Blade Cost Model. Golden, CO: National Renewable Energy. But for operators, investors, and engineers, one critical question often arises: how much does a wind turbine blade cost?

The answer is not straightforward. Blade costs vary based on size, material, technology, and logistics. In this detailed guide, we'll explore the factors influencing blade. Wind turbines, particularly industrial ones, have heavy blades that can cost anywhere between \$500 and \$7, 500, with the average cost around \$2, 500. Wait, no—that's not entirely accurate.

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System Topology



How Much Are Wind Turbine Blades

Wind turbines, particularly industrial ones, have heavy blades that can cost anywhere between \$500 and \$7,500, with the average cost around \$2,500. The size of the blade is a major ...

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Cost Of Wind Turbine Blades

Wind turbine blades cost a staggering \$100,000 to \$500,000 each, and there's no bargain-bin discount. Materials make up 70% of the cost, with fancy fiberglass and carbon fiber composites ...

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How Much Does A Wind Turbine Blade Cost? A Complete Guide

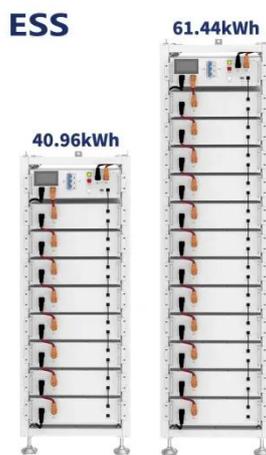
So, how much does a wind turbine blade cost? The answer ranges from hundreds of thousands to several million dollars per blade, depending on size, materials, and application.

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Wind Turbine Blade Cost Guide for U.S. Buyers 2026

Understanding the price of a wind turbine blade helps buyers gauge project budgets and total cost of ownership. The cost of a blade is driven by length, materials, manufacturing method, and ...

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A Detailed Wind Turbine Blade Cost Model

This work aims to define a detailed parametric blade cost model for modern multimegawatt wind turbine blades via vacuum-assisted resin transfer molding (VARTM).

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How Much Does a Wind Turbine Blade Cost? Price Breakdown

Discover how much a wind turbine blade costs in our detailed price breakdown. Learn key factors affecting price and make informed renewable energy decisions!

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How Much Do Wind Turbine Blades Cost?

Wind turbine blades represent a significant portion of a turbine's overall expense; their cost varies greatly depending on size and materials,

typically ranging from \$200,000 to over ...

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Cost Analysis: How Much Do Commercial Wind Turbines Really Cost?

Understanding how much do commercial wind turbines cost is critical for investors, regulators, and environmentalists alike. This cost analysis examines the numerous aspects ...



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Wind Blade Generator Cost: Breaking Down the \$1.5 Million Price Tag ...



You know, wind energy adoption grew 12% globally in 2024, but here's the kicker: a single wind turbine blade now costs between \$100,000-\$1.5 million. Wait, no--that's not entirely ...

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