

Wind power systems and prices





Overview

How much does a home wind turbine installation cost?

The typical cost range for a home wind turbine installation can vary significantly, ranging from as little as \$300 to as much as \$75,000. The wide range is due to cost factors such as the size and type of turbine, wind speed requirements, installation location, and site preparation.

How much does a wind farm cost?

The location of a wind farm can have a profound effect on cost. While a wind turbine in Europe or the United States can cost about \$1 million per MW, turbines installed in countries like Brazil can be as cheap as \$500,000 per MW. Once the turbines are erected, they must be wired to the electrical grid.

How much does a 12 MW wind turbine cost?

The most powerful 12 MW wind turbine costs up to \$400 million to manufacture and install. Costs for utility-scale wind turbines can be broken down into three categories: manufacturing, transport and installation, and operations and maintenance.

How much does a 15 kW wind turbine cost?

The American Wind Energy Association (AWEA) notes that homeowners usually pay an installation cost of \$2,000 to \$5,000 per kilowatt of the unit's power capacity. This means it could cost between \$30,000 and \$75,000 to install a 15 kW wind turbine.

How much does an offshore wind turbine cost?

Large offshore turbines can cost tens of millions of dollars, with the most powerful 12 MW turbines reaching up to \$400 million (≈ 12820.5 years of non-stop work at \$15/hour - exceeding the time since the end of the last Ice Age) for manufacturing and installation.



How much does a distributed wind energy system cost?

The residential and commercial reference distributed wind system LCOE are estimated at \$240/MWh and \$174/MWh, respectively. Single-variable sensitivity analysis for the representative systems is presented in the 2019 Cost of Wind Energy Review (Stehly, Beiter, and Duffy 2020). Analysts included the LCOE estimate for a large distributed wind energy



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