



# 3MW wind turbine generator price

What is a 3 MW wind turbine?

Our 3 MW turbines range from 3.2 to 4.2 MW power output, and includes the 4.0-137, our highest performing turbine for Class III winds. Our 3 MW wind turbines share drivetrain and electrical system architecture with each of those systems being scaled and upgraded for improved performance and greater energy production, as compared to previous models.

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. Researchers are constantly working to drive down the costs.

How much does a wind turbine cost?

The typical wind turbine is 2-3 MW in power, so most turbines cost in the \$2-4 million dollar range. Operation and maintenance runs an additional \$42,000-\$48,000 per year according to research on wind turbine operational cost. See the National Renewable Energy Laboratory's website for the most recent (December 2022) Cost of Wind Energy Review.

Why is Suzlon launching a 3 MW wind turbine generator?

Suzlon introduced the new 3 MW series to unlock unviable sites and to deliver improved energy yield suitable for all wind regimes. The S144 wind turbine generator is one of the largest in India, extendable up to 3.15 MW, depending on site wind conditions, available at a hub height of 140 meters going up to 160 meters by its serial launch.

How does a 3MW onshore turbine work?

Our 3MW onshore turbine is engineered to operate at variable speeds and uses a doubly fed asynchronous generator with a partial power converter system, as well as active yaw control to keep the blades pointed into the wind.

How much does a 1.5 MW turbine cost?

The typical 1.5 MW turbine is about 80 m tall, though some can reach as high as 140 to 160 m. Doubling the tower height requires doubling the diameter and quadrupling the amount of material in the tower. The cost of the tower is around \$200/kW.

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