Average height of wind turbine



Average height of wind turbine

If you're thinking of installing a wind turbine, you obviously need to decide what size of wind turbine you're going to install. Not only in terms of how much electricity it will generate, but also in terms of how physically high it will be.

The best height for a wind turbine is basically as tall as you can get permission for, from your local authorities. The taller the wind turbine, the higher the wind speeds are, and the longer its blades can be, and the more efficient it will be at generating electricity.

However, obtaining planning permission is not the only factor that goes into deciding what size of wind turbines to install.

The factors that affect your decision will largely be determined by whether you"re installing a wind turbine to power your home, or developing a wind farm on your farm land or industrial estate.

Whether you're considering a wind turbine to power your home, or whether you have a farm or industrial land where you're thinking of installing a wind farm, I'll explore all the factors that go into deciding what height of wind turbine to install later on in this article.

However before we get into that, let's first quickly look at how the much physical size of wind turbines have increased over the last few decades.

Some would argue the height of a wind turbine is measured from the ground to the tip, but for the purpose of this article we"ll refer to the height as is its distance from the ground to the rotor of the turbine.

According to, U.S. Energy Information Administration, since 2012 the average height of onshore wind turbines in the USA has been around 80 meters (about 280 feet).

In 2020, the average height increased to approximately 90 meters (295 feet), which is as tall as the Statue of liberty.

The average height for massive offshore wind farm turbines out in the sea is projected to increase significantly over the coming years. From an average of 100 meters (330 feet) in 2016, to around 150 meters (500 feet) or more.

The altitude of your windturbine is critical in terms of how powerful and 'cleaner' the airflow will be at various elevations.



Average height of wind turbine

Taller towers are often more costly, but the added expense of a taller turbine is readily justified by the cost savings and increase in energy efficiency for the aforementioned reasons. Taller towers allow for bigger blades, and the higher the tower the faster the wind at increasing altitudes.

Contact us for free full report

Web: https://kary.com.pl/contact-us/ Email: energystorage2000@gmail.com WhatsApp: 8613816583346

