



Average output of wind turbine

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In 2023, the U.S. residential sector consumed 18.4 quads of primary energy, 19.7% of U.S. primary energy consumption.

Approximately 2% of the solar energy striking the Earth's surface is converted into kinetic energy in wind.¹ Wind turbines convert the wind's kinetic energy to electricity without emissions¹, and can be built on land or offshore in large bodies of water like oceans and lakes². High wind speeds yield more energy because wind power is proportional to the cube of wind speed.⁴ Average annual wind speeds of 6.5m/s or greater at the height of 80m are generally considered commercially viable. New technologies are expanding the wind resources accessible for commercial projects.⁵ In 2023, wind energy generated 10% of U.S. electricity.⁶

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