

Calculation of theoretical wind power generation

The power in the wind is given by the following equation: $\text{Power (W)} = \frac{1}{2} \times \rho \times A \times v^3$. Power = Watts. ρ (rho, a Greek letter) = density of the air in kg/m^3 . A = cross-sectional area of the wind in m^2 . v = velocity of the wind in m/s .

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