

# 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.  $\rho$  (rho, a Greek letter) = density of the air in  $\text{kg/m}^3$ .  $A$  = cross-sectional area of the wind in  $\text{m}^2$ .  $v$  = velocity of the wind in  $\text{m/s}$ .

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