Horizontal axis wind mill diagram

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Home » Renewable Energy » Horizontal-Axis Wind Turbine (HAWT) Working Principle | Single Blade, Two Blade, Three-Blade Wind Turbine

2. Least amount of vibration

4. Lowest energy cost when compared to other turbines with similar size blades1. Heavier than single- and two-blade turbines

2. Most capital-expensive of the three types

4. Requires the largest cranes to construct

6. Larger blades are more difficult to transport to the tower siteTwo-Blade Turbine1. Initial cost and weight are lower, and they are simpler to mount

2. Produces more energy than the single-blade turbine1. Noisier than the three-blade turbine

2. Produces less energy than the three-blade turbine (when blade size and speed are the same)Single-Blade Turbine1. Least expensive

2. Easiest to erect because of its lightweight and because the blade can be mounted while it is on the ground

3. Requires the smallest and lightest tower1. Noisier than the three-blade turbine

3. Most prone to vibration at the bladeTable 1 Advantages and Disadvantages of Single-, Two-, and Three-Blade Horizontal Axis Wind Turbines

In previous articles, you get to know about wind turbine and how it converts energy. We discussed important parts of a horizontal axis wind turbine. This article is intended to provide the function of each component in a wind turbine and the overall working of HAWT, control mechanism and control strategies, factors affecting the efficiency of the wind turbine.

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