
Savonius

Advantages:

- Not affected by wind direction - makes the design of the wind turbine ideal for areas with turbulent flow.
- Can generate electricity in strong winds without being damaged.
- Very quiet.
- Easy to make.
- Generator in line with the shaft.

Disadvantages:

- Low efficiency - around 15%.
- Cannot rotate faster than the speed of the wind – maximum tip speed ratio (TSR) of 1.
- Turns slowly and generates high torque - difficulties with generators which require high RPM.

Giromill Darrieus

Advantages:

- Robust blades.
- Cheaper and easier to build than standard Darrieus.
- Works well in turbulent flows.
- Vane could be used in cycloturbine design to mechanically orient the pitch of the blades for maximum efficiency - helps in self-starting.
- No need for gearbox.
- Generator in line with the shaft.

Disadvantages:

- Not as efficient as Darrieus.
- Requires strong winds (or a motor) to start rotating.
- Can struggle to maintain a steady state of rotation.
- Cycloturbine is more complex, heavy and expensive to build.

In order to choose the wind turbine type which would have the most advantages over the other types, a decision matrix was created.

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offshore floating vertical axis wind turbines: advantages, disadvantages, and . lefevre and collu [11]).

Wind power. Wind is produced as a result of giant . Several wind turbines may be grouped together in windy locations to form wind farms. Advantages and disadvantages.

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