

Generator Minimalist Wind Deflector

Can deflector design improve turbine blade wind flow?

In recent years, various techniques for deflector installation and modified designs have been reported [22]. Many of these designs have been reported with validated simulations and have contributed to turbine blade wind flow improvements.

Do wind deflectors improve rotor performance?

Wind deflectors in small wind turbines are installed to improve the static torque generated by the rotor; however, in large wind turbines, their applications improve the ventilation to enhance the thermal performance of the stator generator [67].

Can a wind deflector be installed between two vertical axis turbines?

Similarly to the design shown in Figure 9 reported by [78], they can be modified to install a wind deflector between two vertical-axis turbines, utilizing the accelerated wind speed in the near wake region from both sides of the deflector.

Do wind deflectors improve self-starting ability?

The augmentation gain of the deflectors is compared in Table 3. The most suitable application of wind deflectors is in the Savonius type of wind turbine, as it has very low self-starting ability among other VAWTs but higher efficiency; therefore, wind deflectors are very effective in improving self-starting ability along with overall performance.

What is a wind deflector?

A wind deflector can be of a very simple form such as a flat plate, or it can also be of an aerodynamic shape [73]. The geometry of the deflector significantly affects the power enhancement of VAWTs [74].

What is the simplest form of a wind deflector?

The simplest form of a wind deflector is a flat plate deflector placed upstream of the VAWT rotor. When installing a deflector, it is important to know the correct orientation and position.

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