

Are there alternatives to a 'windmill'?

Six imaginative designs are offering alternatives to the tried-and-true "windmill." While large wind developers focus on building taller and more powerful conventional wind turbines, several smaller companies--mostly startups--are creating wind generators with multiple, smaller, and oddly shaped blades. Some turbine designs have no blades at all.

Can a wind generator resemble a tree?

Taking a lesson from nature, New World Wind has created a wind generator resembling a tree. Each leaf--or Aeroleaf--is a small, plastic vertical-axis turbine with a microgenerator containing permanent magnets. Designed for microgrids, it can work with AC or adapt to DC. Aeroleaf's tree-like wind device.

Can wind power be used in a microgrid?

Companies like Airloom successfully harvest wind energy with less expense, waste, noise, and environmental impact than traditional wind developments. Some turbine designs are suitable for microgrids or other small-scale uses, while a few startups have ambitions to offer grid-scale power.

What are the different types of wind devices?

The wind devices generally fall into two camps: the vertical axis turbine and the passive flow wind device. However, they differ greatly in size, shape, and intended use. The Windcatcher compared to a traditional wind turbine. Image used courtesy of Wind Catching Systems

Wind turbines of unconventional design Twin-bladed rotor Nearly all modern wind turbines use rotors with three blades, but some use only two blades. This was the type used at Kaiser-Wilhelm-Koog, ...

Unconventional wind turbines Most modern wind turbines available in Australia are of the horizontal axis two or three straight-blade type. But there are many other designs being manufactured around the ...

Unconventional wind turbines are those that differ significantly from the most common types in use., the most common type of wind turbine is the three-bladed upwind horizontal-axis wind ...

Electric power is mostly produced by using conventional fuel, which gradually increases the atmospheric temperature and pollutes the environment. That is why the majority of countries are ...

Six bizarre wind turbine designs that prove clean energy doesn't have to be boring Forget ordinary wind farms, these bizarre turbines are works of art.

Unconventional wind turbines encompass a diverse array of innovative designs that deviate from the dominant three-bladed horizontal-axis wind turbines (HAWTs), incorporating alternative ...

Explore six unique wind turbine designs that blend clean energy with artistic flair. Discover the future of sustainable art today!

The recent focus on sustainability and energy-efficiency encouraged designers to develop unconventional wind turbines, which not only proved to be a boon for the environment but for ...

It becomes apparent for modern renewable energy technologies, including wind generators, to possess qualities of robustness, high efficiency, and cost effectiveness. To this end, direct-drive permanent ...

The Windcatcher compared to a traditional wind turbine. Image used courtesy of Wind Catching Systems
Most unconventional wind turbines are in limited use, concept, or prototype ...

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