

Solar Energy South Africa

What is the patent for wind tower power generation



Overview

This patent insight report provides a snapshot of the patent situation of offshore wind energy technologies. Although some technologies are equally applicable to onshore and offshore, this.

Monitoring waves and wave loads is crucial for fatigue assessment. It allows us to better understand a substantial part of the dynamics of the forces.

Forward citation counts are typically used to understand the impact of inventions, the idea being that important patents are often cited by subsequent filings.

Because of the reduction in the number of fish available for commercial fishing, offshore aquaculture allows for greater economies of scales. Whereas aquaculture is traditionally.

When did wind energy technology become a patented technology?

Following an initial phase marked by limited patent filings, the patenting activity in offshore wind energy technologies experienced a notable surge starting in 2006. Subsequently, a period of consistent annual expansion persisted until 2012.

How many wind energy patents are there?

However, it is worth noting that patent filings specifically classified as “offshore” are too few to conduct meaningful analysis, so we expanded the search to include all wind energy patents. Between 2002 and 2022, the number of patent filings covering these two technologies increased by a factor of fourteen.

What are the different types of wind energy patents?

These patents cover inventions related to offshore wind energy, including key technology concept groupings such as: fixed and floating foundations, towers, mechanical power transmission, blades and rotors, hybrid systems, energy storage, and grids and submarine cables.

What is a Patent Classification system in wind energy?

As such, in the field of wind energy, the patent classification system allows us to look at patents that relate to blades or rotors; components or gearboxes; control of the turbines; generators; nacelles; off-shore towers and on-shore towers. PATENT FILINGS ON THE WANE - BAD NEWS FOR INNOVATION?

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How has technology changed the wind power industry?

Like any evolving industry, the wind power sector has seen a spike in technological advancements in the past decade, with rival companies engaged in a race to patent innovations in different or overlapping areas of technology to gain a competitive advantage.

Are floating foundations the future of wind power?

Market trends indicate a growing interest in developing floating foundations given their potential for siting turbines in deeper waters with abundant wind potential. This is confirmed by patent data, which shows that industry players are innovating in this technology area. Tower and blade designs to reduce steel demand and enhance sustainability.

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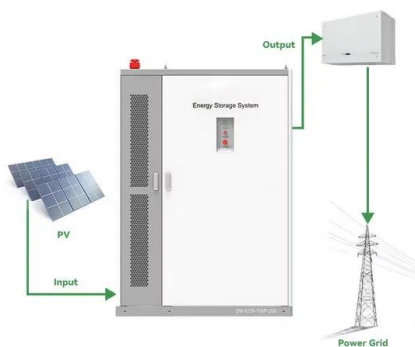


Modvion builds 105m wooden wind turbine tower in ...

It will be used to mount a 150m-high, 2MW turbine produced by Danish wind turbine maker Vestas. This is the first time that a wooden tower will be used for a Vestas wind turbine. It will become operational by the end of ...

Wind turbine , Renewable Energy, Efficiency & Design ...

wind turbine, apparatus used to convert the kinetic energy of wind into electricity.. Wind turbines come in several sizes, with small-scale models used for providing electricity to rural homes or cabins and community ...



China leads global increase in wind power generation ...

An analysis of published global patent applications relating to wind power generation shows an increase from approximately 9,000 published patent filings per year in 2016, to over 12,000 per year in 2021. By region, ...

Differences between existing wind turbines and the Wind Tower.

Wind turbines are currently the main wind power generation system used in the world. Japanese

local governments also promote wind turbines for to its "eco-friendly" image. However, it ...



How Do Wind Turbines Work? , Department of Energy

The terms "wind energy" and "wind power" both describe the process by which the wind is used to generate mechanical power or electricity. This mechanical power can be used for specific ...

Patent Trends in Wind Turbine Technology , Potter ...

Wind turbine gearbox technology and components, as well as on-shore tower technology, are perhaps bucking the trend more recently and seeing an increase in innovation. The reasons for changes in the number of patent filings are ...



No blades! A pole-shaped wind turbine, Vortex ...

Standing at a height of 2.75 m with a power output of 100 W, the model is intended to be used for residential self-generation and farmlands. Vortex Atlantis/Grand that is at the prototype stage is 9 to 13 m tall and has a ...

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