

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.

How do wind energy patents work?

Methodology for wind energy application can be generalized for patent searching to target other technology domains. Wind energy patents are conventionally defined using Cooperative Patent Classification (CPC) and International Patent Classification (IPC) codes that represent wind motors (F03D) and wind energy (Y02E 10/70).

How many patents are used in a wind energy application?

The number of patents used in all four samples on the wind energy application are outlined in Table C1. The sample size used for Sample 2 (Keyword Set - WEDD1) is 257, which is between 5 and 10% margin of error.

Do patent statistics reveal technological trends in the offshore wind supply chain?

This patent insight report on innovation trends in the offshore wind supply chain, jointly prepared by the European Patent Office (EPO) and the International Renewable Energy Agency (IRENA), assesses patent statistics to reveal technological trends in the offshore wind industry.

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 offshore wind energy patents are there?

The new report, which summarises the results of patent analyses in this field, found that about 17 000 offshore wind energy patent families were published between 2002 and 2022, at an average annual increase of 18%. While growth stagnated between 2014 and 2017, recent years have seen a sharp increase in filings.

News and intelligence on global wind energy markets; Breaking industry news and email bulletins; Analysis of the latest trends to help you make informed decisions; Searchable content archive ...

The patent also extends the application of the cooling system to a wind power generator set, showcasing its versatility and adaptability to different industrial contexts. ...

Although the start of wind power generation began in 1980, its growth was from the late 1990s. ... Patent

analysis of wind energy technology using the patent alert system. World Patent ...

this research is to study the status of mainstream offshore wind power technology and patent portfolios and to investi- ... Currently, global offshore wind power generation is 5,538 MW, of ...

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Research from Reddie & Grose, a UK and European firm of Patent, Trade Mark and Design attorneys, shows a significant global increase in patent filings relating to wind power generation in the previous 10 years, with ...

Today, the European Patent Office (EPO) and the International Renewable Energy Agency (IRENA) have published a joint patent insight report on offshore wind energy. The new report, which summarises the results of ...

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