



# Solar power generation patent purchase

What are the patent trends for solar energy?

Patent trends for each type of energy are quite different. Solar and wind are currently the most widely used energy sources, and patent numbers for solar energy are far higher than the other energy technologies. Additionally, solar technologies seem to have developed rapidly since 2000, and most particularly since 2005.

How many solar energy patents are there?

Using this retrieval strategy, we assembled 242,631 solar energy patents, 74,800 wind energy patents, 37,675 biomass energy patents, 17,228 geothermal energy patents, 16,306 tidal energy patents, and 6023 nuclear energy patents. After preprocessing the data and deleting duplicates, etc., we ultimately retrieved 383,756 patents. 4.

Which countries have the most solar energy patents?

The United States, South Korea, and Germany respectively hold 40,221, 29,623, and 23,667 patents. France, Russia/the Soviet Union, Cuba, and Spain are in the top 10. Further, in all countries, solar energy is the most advanced technology, except for the Soviet Union/Russia, which may relate to how much sun each geographic location gets.

What percentage of patent applications are based on geothermal energy?

In 2019, they accounted for 28 percent of publications in the renewables sector. However, international patent applications relating to geothermal energy accounted for just 1.4 percent of those published in the sector. Source: Economics and Statistics Division, WIPO Another way to analyze patent trends is to look at where the patent comes from.

What role do patents play in renewables?

As with other sectors, patents play a central role in protecting rights in technology. Within renewables, most investment continues to be in solar and wind power.

How many PCT applications relating to solar power have been published?

Over the past 17 years, the number of published PCT applications relating to solar power increased by 678 percent. Solar has been the leading technology every year since 2009. It peaked in 2012, when 2,691 international patent applications were published.

Solar energy generation vs. capacity; Solar power generation; The cost of 66 different technologies over time; The long-term energy transition in Europe; Thermal efficiency factor applied to non-fossil energy sources to convert them ...

If you're innovating in the solar industry, patents will be a primary tool for legally protecting your IP. This is because solar power systems can typically be reverse engineered by competitors, which means you can't ...



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The utility model discloses a vehicle-mounted solar-energy filtering power generation device, which can improve the photoelectric conversion efficiency effectively. The device comprises ...

A Machine Learning Approach for Solar Power Technology Review and Patent Evolution Analysis Amy J.C. Trappey 1, ... and has fewer limitations to purchase and install. Solar energy Appl. ...

According to GlobalData's company profile on First Solar, Photovoltaic roof tiles was a key innovation area identified from patents. First Solar's grant share as of January 2024 ...

With over 666 patents and pending patent applications filed around the world, Enphase Energy is a global leader in patent filings covering renewable energy technology. ... LOCALIZED POWER POINT OPTIMIZER FOR SOLAR CELL ...

A Solar Power Purchase Agreement (SPPA) is a financial arrangement in which a third-party developer owns, operates, and maintains the photovoltaic (PV) system, and a host customer agrees to site the system on ...

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