

Core patents for solar power generation

How many patents does General Electric have?

General Electric (a US multinational service and technology company) with 171 patents is in eighth position. GE Renewable Energy works with power generation and storage in hydroelectric power plants, wind and land-based wind turbines, solar panels, and innovative technologies such as biomass and tidal power.

How many patents does First Solar have?

In the ninth position, with 151 patents, is First Solar, a US company one of the largest manufacturers of photovoltaic solar modules with production units in the United States, Malaysia, Germany and Pakistan.

What is the technological system of solar photovoltaics?

2. The technological system of solar photovoltaics The PV technological system is a power system comprising a sequence of interconnected components that work together to convert sunlight energy into electricity, utilize the generated energy, store it, or invert it (Fig. 1).

What is the current status of concentrating solar receiver patent?

However, the current status of the patent is 'Expired - Fee Related'. Technically, the patent discloses a concentrating solar receiver consisting of a primary parabolic reflector and a highly reflective surface with an extending focal axis from its concave side passing through the focal point of the primary reflector.

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.

What is the relationship between the PV sector and patenting activities?

Besides its growing global trends, the significant relation between the PV sector and patenting activities can further be illustrated by two observations: The first is the numerous radical PV inventions that were initially filed in patents (e.g. Siemens reactor, HIT cells, and DSSC).

An electric power generation system is provided. The electric power generation system includes an electric power generation device and an ambient environment comprising an atmospheric ...

Solar panels having a lightweight honeycomb core as a support for an upper surface array of solar cells. The upper surface of the core is bonded to an upper insulation/faceskin laminate, and ...

"The Core Solar team brings with it an exceptional ability that will contribute to TotalEnergies' ambition to become a market leader in solar energy delivery in the US." Earlier this month, TotalEnergies partnered with ...

Solar energy generation by region; 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 ...

Semantic Scholar extracted view of "Identifying Core Technology Structure of Electric Vehicle Industry through Patent Co-citation Information" by Xin Wang et al. ... greater research ...

Decreasing the levelized cost of renewable energy and improving the stability of power systems are the key requirements for realizing the sustainable growth of power production capacity. Concentrating solar power ...

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