

Why is China focusing more on solar photovoltaic (PV)?

The solar photovoltaic (PV) power is abundant, clean, and convenient and also has been considered as one of the most promising renewable energies [5,6]. Due to the ever-increasing energy and environmental pressures, China is switching to focus more on fostering the PV industry.

Where are China's solar PV communities located?

Jiangsu province (containing cities such as Nanjing and Wuxi), a pioneer of China's solar PV communities, is the largest size and with abundant experience in production and research and development (R & D). The core downstream enterprises face risks of raw materials shortages and increasing prices.

What factors influence innovation in PV Enterprises in China?

Here, GSs are divided into R&D subsidies (RDSub) and non-R&D subsidies (NRDSub). Apart from GSs, innovations in PV enterprises in China are also influenced by internal factors, such as the scale of enterprise, state ownership, financial condition, age [45 - 47], and external factors, such as market profit [48, 49].

Why is China launching a solar power plant?

Due to the government's strong desire in developing strategic emerging industries in China, generous subsidies have been granted to PV enterprises and have triggered a marked increase in PV electricity production.

Does government subsidies affect photovoltaic energy production in China?

This research was funded by the National Social Science Foundation of China (20BGL046). Government subsidies (GSs) have triggered a remarkable increase in the production capacity of photovoltaic (PV) electricity in China. However, the lack of core technologies has limited PV enterpris...

How many watts a year does China produce PV electricity?

According to the data released by the National Energy Administration, the newly added generation capacity of PV electricity in China in 2017 reached 53.06 billion-watt, and the production of silicon slice reached 87 billion-watt. In terms of generation capacity, China has ranked first in the world.

With its advantages of light weight, high strength, corrosion resistance and durability, aluminum is widely used in building solar panel frames and photovoltaic supports. Research shows that aluminum is the most widely used material in ...

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