

Solar power generation enterprises supported by the state

Do government subsidies promote Enterprise Innovation in the PV industry?

The purpose of this research is to explore the impacts of government subsidies on promoting enterprise innovation in the PV industry in pursuit of renewable energy goals. Theoretical analysis shows that government subsidies play an essential role in promoting enterprises innovation.

Do government photovoltaic subsidies affect enterprise independent innovation in China?

Achieving a green, low-carbon economy necessitates clarifying the impacts of government photovoltaic (PV) subsidies on enterprise independent innovation in China. This study constructs a tripartite evolutionary game model among government, enterprises, and energy regulatory service centers (ERSC).

Why did China promote the solar PV industry?

The solar PV industry (as well as wind power) was supported and promoted with the explicit aim to create a leader in the global renewable energy market and to export equipment made in China to the promising solar markets in Europe and in USA. China's government wanted to take its export-oriented, "factory of the world" economy to the next level.

Is photovoltaic power generation a strategic emerging industry in China?

In recent years, photovoltaic power generation technology in China is increasingly maturing, with the falling of solar electricity costs. As a strategic emerging industry, the rapid expansion and technological innovation of Chinese PV industry cannot be separated from the support of national policies and funds.

Why did the government reduce subsidies for solar & wind energy?

However, as the industry matured and global market competition intensified, the government began to adjust subsidy policies during the "Thirteenth Five-Year" plan (2016-2020), gradually reducing subsidies for mature fields such as solar and wind energy to promote the market-oriented development of the industry.

Do state-owned PV Enterprises have a strategic priority?

Since state-owned PV enterprises have a greater need to serve government objectives to secure legitimacy, the government should also emphasize the strategic priority of innovation rather than production expansion to stimulate the R&D efforts of state-owned PV enterprises.

Supported by preferential policies and governmental funding, the development scale of China's new energy power generation industry has been improved greatly. As a capital-intensive practice, what is the impact of governmental subsidies on the financial performance of China's new energy power generation enterprises in recent years? Will technological ...

Renewable energy plays a significant role in achieving energy savings and emission reduction. As a

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sustainable and environmental friendly renewable energy power technology, concentrated solar power (CSP) integrates power generation and energy storage to ensure the smooth operation of the power system. However, the cost of CSP is an obstacle hampering the commercialization ...

More supportive policies to maximize solar power use and promote healthier photovoltaic development are in the pipeline, with sanguine forecasts of record growth in PV capacity this year, officials and experts said.

The cumulative installed capacity of power generation in China rose to 2.97 billion kilowatts by the end of February, a year-on-year increase of 14.7 percent, with solar power reaching 650 million kilowatts, a year-on-year increase of 56.9 percent, and wind power up 21.3 percent year-on-year to 450 million kilowatts, according to the National Energy Administration.

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Government subsidies have a significant negative moderating effect on state-owned enterprises, large enterprises, firms in the wind and photovoltaic power industries, and ...

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Concentrating solar power (CSP) technology provides a promising alternative. The electricity generation principle of CSP is to capture sunlight using mirrors or lenses to produce heat that drives conventional thermoelectric generation systems to produce electricity [2]. Both CSP and PV generate electricity from solar energy.

The installed capacity of non-fossil energy power generation ranked first in the world, with the installed capacity of wind and solar power generation reaching 280 GW (kW) and 250 GW respectively (National Development and Reform Commission, 2022a). The maximum single capacity of onshore and offshore wind power continues to increase, the diameter of ...

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data is current through Q2 2024.

Spain has become one of the leading countries in the world in promoting electricity generation from renewable energy sources (RES), due to their positive socioeconomic and environmental impacts ...

“Renewable energy has become the principal source of the country's newly added installed generation capacity in recent years, especially solar and wind power. China ...

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The results indicate that government subsidies can ease financing constraints to enhance corporate green innovation performance. Firstly, government subsidies can provide ...

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