

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).

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 show that government subsidies play an essential role in promoting enterprises innovation.

How does the government support the PV industry?

Since 2009, the government has attached importance to the domestic PV market and adopted a range of policies to support its development, such as special funds for renewable energy, feed-in tariff subsidies, preferential income tax for high and new technology enterprises, financial aid for PV applications, and demonstration projects.

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.

How do PV Enterprises get energy subsidies?

PV enterprises can submit requests for energy subsidies to ERSC, which then presents these requests to relevant government departments. The ERSC serves as an information hub, providing feedback on government policies to enterprises and offering guidance and recommendations.

Why should PV enterprises invest in non-operating GS?

GSs, as nonoperating income of PV enterprises, can effectively share the cost of enterprise R&D investment, reduce the negative impact of external spillover effects of innovation achievements, and strengthen the driving force for PV enterprise innovation.

This research aims to help photovoltaic enterprises to enhance their technological innovation inefficacy, and to provide the government ideas to implement differentiated industrial support ...

applications of, in-space SSP and space solar power for terrestrial power; (e) Demonstrate a space solar power pilot plant system in Earth orbit that can deliver power of not less than 100 ...

Energy-intensive enterprises (EIEs) are typical kinds of industrial loads. They consume large amounts of

electricity, and are very sensitive to electricity prices. Moreover, ...

The monthly generation of China Supcon Delingha 50 WM Concentrating Solar Power tower plant reached record high at 17.1795 GWh in February 2020 (from Jan 26 to Feb 25), with the ...

In the solar sector of Jaipur, sunAlpha Energy stands as a renowned solar EPC company in the city. With its foundation stones laid by illustrious technocrats from the IIT and Georgia Institute of Technology, ...

The monthly generation of China Supcon Delingha 50 WM Concentrating Solar Power tower plant reached record high at 17.1795 GWh in February 2020 (from Jan 26 to Feb 25), with the generation fulfillment rate of 102.9%. ... Supcon ...

As a matter of fact, there is a wide range of application for cooperation profit allocation in the energy field, such as the Shapley value, nucleolar method, etc., [46,47,48,49] ...

First, all power enterprises seek profit maximization and risk minimization. When the carbon neutrality target is considered, whether carbon neutrality can be included in the ...

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