

Do government subsidies affect photovoltaic industry?

We apply spatial econometric model to analyze the performance of government subsidies on photovoltaic industry. The installed capacity of photovoltaics has shown a significant spatial agglomeration situation since 2012. The feed-in tariff and R&D subsidy policies play a positive incentive to the photovoltaic installed capacity.

Are subsidies causing overcapacity problems in photovoltaic supply chains?

In the past decade, subsidy policies aimed at demand-side of photovoltaic (PV) supply chains have created a dilemma. While they foster the growth of the PV industry, they also induce overcapacity problems to the society. As a result, many governments have cut back subsidies to PV system users.

What are the different types of PV subsidy policies?

The major types of PV subsidy policies used by different nations are increasing residual feed-in prices, income tax exemptions on income from power generation, and installation cost subsidies.

How do government subsidies affect the PV industry?

However, lucrative government subsidies often lead to PV enterprises not paying attention to technological innovation and blind production. Therefore, to improve the efficiency of government subsidies, enhance the overall performance of the PV supply chain, and achieve the healthy and long-term development of the PV industry.

Is a balanced subsidy policy a good strategy for PV supply chains?

Under this balanced subsidy policy, adopting a medium combination of operational strategies is the best strategy option for PV supply chains. Currently, traditional demand-side oriented subsidy policies have resulted in inefficient operations and welfare loss in the photovoltaic (PV) industry.

Does government subsidy optimize PV supply chain enterprises under different power structures?

It investigates the optimal decision analysis and government subsidy optimization of PV supply chain enterprises under different power structures, given the problem of dysfunctional government subsidy incentives and performance loss of PV supply chain enterprises.

The results indicate that, for low-cost investments, subsidies are more efficient than penalties, whereas, for high-cost investments, either policy has positive effects on the formal treatment rate of waste PV modules. Therefore, this study will be helpful to choose a more appropriate waste PV recycling strategy in their actual recycling practices.

behind the world level, although its manufacturing capacity of PV cells and modules ... subsidy policy has been implemented by the Chinese government since 2007 to encourage the participation of enterprise

investment. In terms of Chinese government's goals on installed PV-based generating capacity in 2010 and 2020, the historical data shows a ...

With the advancement of silicon solar cell manufacturing technology (SSCM-Tec) driven by subsidy policies, some developing countries have implemented subsidy ...

In this context, this Policy Brief evaluates specifically the case of solar PV manufacturing. We start by describing the characteristics of solar PV supply chains, and then outline the diverging historic and current trajectories ...

China and the United States have high levels of installed capacity and investment in renewable energy technologies, including in the solar photovoltaic (PV) industry (REN21, 2016) panies in both countries have invested billions of dollars into the development and deployment of solar PV, and the industry is an increasingly important employer (Schreurs, ...

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 ...

Recently, many scholars have investigated solar PV cell issues from multiple perspectives, such as the optimization of PV module components [5], energy distribution in PV modules [6], unadjusted ...

A solar cell, also known as a photovoltaic cell (PV cell), is an electronic device that converts the energy of light directly into electricity by means of the photovoltaic effect. [1] It is a form ...

1 School of Culture and Tourism, Zhejiang International Studies University, Hangzhou, China; 2 School of Business, Hohai University, Nanjing, China; In the past two decades, China's government subsidy policy has promoted the rapid development of the photovoltaic industry. Concerns have been raised about how the financial performance of ...

Reviewing Q1 this year, China's lack of clarity on subsidy policy has kept most downstream players waiting for the government to confirm solar subsidies while halting construction. As a result ...

The solar cell is the basic building block of the PV technology. ... Off-grid solar electrification of 10 rural communities in northern Volta to identify issues for a comprehensive policy on solar PV into the national energy scheme. ... high transaction costs, subsidies to conventional fuels and lack of awareness about PV systems at all levels ...

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