

How did incentive policies affect solar PV development?

Platzer et al. (Platzer,2016) pointed out that the introduced incentive policies were the key factors to affecting the PV deployment and that they helped to initiate the early niche markets in the United States. Since the 1990s, Japan and Germany have become the leading countries in solar PV development.

Does China have a PV industry policy system?

Zhi et al. examined the development history of China's PV industry policy system from the perspective of industrial policies, and conducted a comparative analysis among China, United States, Germany, and Japan from the perspective of both the supply- and demand-side policies.

Which countries have incentive policies for solar PV technology development?

Finally, we provide an outlook on the future of PV technology in the four countries and present future challenges and policy recommendations based on the current situation. Figure 1. Research structures. Table 1 shows the history footprint of incentive policies for solar PV technology development in China, Germany, Japan, and the USA.

How strong are PV industry policies?

The PV industry policy measures not only affect the industry in the promulgation year, but also have an accumulative effect until they are repealed. Therefore, as described in Section 3.1.3, the strength of the PV industry policies was based on the issued strength and the enforcement strength.

Who promulgates PV industry policies?

By 2016, more than 20 agencies have become involved in the promulgation of PV industry policies, such as National People's Congress, the SC, the NDRC, the Ministry of Finance (MOF), the NEA, and the Ministry of Industry and Information Technology. Most of the PV industry policy is promulgated by the NEA, followed in order by the NDRC and the MOF.

How does the government promote the development of the photovoltaic industry?

Since 2005, the government has paid considerable attention to the development of the PV industry. The competent departments of the PV industry (such as the NEA and the NDRC), promulgated a series of policies to promote the development of the photovoltaic industry.

According to the China Meteorological Administration, China has abundant solar energy resources. The total potential for solar radiant energy of 1.7~12 tce (tons of standard coal equivalent) per year for the entire country. More than two-third of the country has over 2000 h of sunshine each year, which provides an equivalent annual solar radiation of over 5.02~6 ...

The paper makes an analysis on China's solar PV incentive policies, particularly the national FIT scheme. Policy recommendations are made with regard to the promotion of the domestic solar PV market, including the construction of an effective national FIT scheme, the imposition of renewable portfolio system as well as the establishment of sound ...

The study illustrates that by optimizing the subsidy policy of the PV industry and setting a reasonable subsidy level can achieve the balance of interests and performance ...

On one hand, Spain was one of the leading countries in solar photovoltaic electricity production during the first decade of the 21st century. 27 This position is coherent with the country's tremendous and well-distributed solar irradiation, as well as with its economic growth during the period and the promotion policy adopted by the Government. 28 In contrast, the ...

The purpose of this article is to investigate why the Chinese institutional setup failed in the execution of an industrial policy, drawing on the case of the solar photovoltaic (PV) industry. The industrial policy is considered a failure because it only produced a large industry, not a competitive one. As a part of its renewable energy ...

This study designed an evaluation framework for China's PV industry policy from four dimensions (policy measure, policy type, policy strength, and policy issuing department) to categorize ...

Learn how government policies shape the adoption of solar energy. Explore the impact of incentives and regulations in solar power growth. ... Making connections with ...

Performance analysis of government subsidies for photovoltaic industry: Based on spatial econometric model ... In this paper, considering the effect of factors such as subsidies and countywide promotion policy of photovoltaics, a forecasting model for the development tendency of regionally distributed photovoltaics based on system dynamics is ...

In the Federal Solar PV Strategy (May 2023, Section 4 EEG), the national expansion target was set at 215 GWp of installed capacity in 2030 and a PV share of 30 per cent of total electricity production. ... A volume of around 1.6 GWp was put out to tender for the promotion of new ground-mounted PV systems. This resulted in 5.5 GWp of bids - an ...

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 ...

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