

Where is the photovoltaic (PV) market developing?

Figure 7. The photovoltaic (PV) market development in China, Germany, Japan and the USA from 1990 to 2017 (Data source: IEA. PVPS. National Survey Report of PV Power Applications). By the end of 2009, the cumulative PV installed capacity in China was only 300 MW.

Do tariff barriers affect global PV product trade?

The global trade of solar photovoltaic (PV) products substantially contributes to increases in solar power generation and carbon emissions reductions. This paper depicts global PV product trade patterns, explores emissions reduction potential, and evaluates the impeding effect of tariff barriers on global PV product trade and emissions reductions.

Why is international trade important for PV cells?

Through the interaction of spatial patterns of PV cells international trade flow, the associations among regions have been strengthened and the development opportunities of PV industry have been expanded. This will also intensify the level of competition.

How has fit policy influenced the growth of PV market in China?

Thus, the FiT policy has driven the rapid growth of the PV market in China. In 2015, "a Top Runner Program" was introduced to encourage Chinese PV companies to invest in PV R&D (IEC, 2018). With the expansion of the domestic PV market, the PV product capacity in China continues to grow.

What is the global PV trade based on?

The data on global PV trade used in this paper comes from the BACI-CEPII 2 Database, covering 251 global economies from 1996 to 2019. According to the division of the PV industry, the upstream is composed of crystalline silicon raw materials and the preparation of silicon rods and silicon wafers.

How did the FIT policy affect the global PV market development?

We find that the FiT policy significantly affected the global PV market development. Germany introduced the FiT scheme in 1991, which drove the formation of the German PV market. The PV market continuously increased under a stable "EEG" in 2000. Since 2008, Germany has been the largest PV market.

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Solar photovoltaic (PV) technology has developed rapidly in the past decades and is essential in electricity

generation. In this study, we demonstrate the relationship between PV incentive policies, technology ...

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These trade measures are typically instigated by manufacturers who feel they are subject to unfair competition petitioning governments for trade policy interventions.

According to a fact sheet from the U.S. International Trade Administration, the Commerce Department found that "Chinese producers/exporters have sold solar cells in the ...

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Despite fluctuations in international trade, it is hoped the investment will be able to effectively guarantee delivery to the company's clients. China's PV module exports ...

The findings provide valuable insights for policymakers, suggesting that align with international standards, provide differentiated technical assistance and adopt transparent ...

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In this study, we aim to explore the impact of countries' roles on the international PV trade by answering following four questions. (1) What is the general evolution of the international PV trade? (2) Of the top trading ...

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