

Does international trade affect the price of solar PV modules?

The obtained results reveal that international trade causes a significant decline in the price of solar PV modules. In addition, the empirical analysis confirms that other well-known factors such as government policies, market development and technological development are also driving down prices.

Does solar PV have a trade pattern in East Asia?

Yang et al. (2017) displayed changes in solar PV's core-periphery hierarchical trade patterns in East Asia. Based on previous results, Guan et al. (2020) proposed functional trade patterns, the optimal trade patterns measured and determined by network motifs, to estimate the potential PV trade flows effectively.

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.

Which countries dominate the global solar PV market?

The global solar PV industry is dominated by the key markets such as Germany, China, Japan and the United States (Kirkegaard et al., 2010). China has become the leading producer and player in the global solar PV market since 2010, with a substantial share of global trade (Algieri, Aquino, & Succurro, 2011).

Why is CN a good indicator of trade in PV panels?

In addition, it can be considered as a reasonable indicator of trade in PV panels because the 8-digit CN classification represents more than 90 percent of the EU import-export under the HS 854140 code (Jha, 2009).
Solar PV module price (PPV): Cost of the PV modules.

What happens if new countries join the global solar PV market?

When new countries join the global solar PV market, the total production capacity scales up, implying an increase of the global supply of solar PV panels, which exceeds the global demand and subsequently lowers the final price for such products in all global markets (Kirkegaard et al., 2010).

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China is the global powerhouse in solar panel manufacturing, driving the industry with unparalleled production capabilities and cutting-edge technological advancements. As the world's leading producer, China



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Based on the analysis of international PV trade between 2000 and 2014, we explored countries' trade roles and their impact on the global PV trade pattern. First, we studied the general evolution of countries with respect ...

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This analysis presents a first order estimate of solar PV manufacturing costs associated with diversified supply chains. It analyzes both domestically integrated supply chains and combinations of countries for ...

The expansion of the international PV trade encourages governments to focus on their trade roles in this market, which has increasing impact on their future development of sustainable energy.

Trade restrictions are expanding, risking slower deployment of solar PV. As trade is critical to provide the diverse materials needed to make solar panels and deliver them to final markets, supply chains are vulnerable to trade policy risks.

platform, select the type and size of wind turbine and photovoltaic panel models, calculate the wind load and wave load that the platform is subjected to, and finally calculate the cost of the ...

The dynamic panel data analysis is carried out to evaluate the effects of international trade and a number of covariates on the price of solar PV modules. The obtained results reveal that international trade causes a ...

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