

How do solar PV companies benefit from government support?

Similar to other industrial sectors, solar PV companies have benefited directly and indirectly from government support, including subsidies, reduced energy and land prices, access to capital, and research funding, which gave them a significant competitive advantage in the global market (Gang, 2015; Zhang & Gallagher, 2016).

How has the solar photovoltaic industry progressed in recent years?

The solar photovoltaic industry has made great progress in recent years, with numerous breakthroughs accomplished in terms of deployments (particularly off-grid), reduction in costs, and technology improvements, as well as the founding of major solar energy alliances (see Fig. 1). The solar industry's major achievements. Source: (IRENA, 2019)

Are Chinese solar photovoltaic (PV) companies engaged in overseas activities?

We find that Chinese solar photovoltaic (PV) firms are primarily engaging in downstream activities overseas, along with some manufacturing activities, and minimal upstream activities. We also find that there are opportunities for technology transfer within all segments of the solar value chain characterizing overseas activities.

Can China transfer solar photovoltaic technology to South-South?

Therefore, even as the majority of China's solar activities abroad are in the downstream segments of solar product sales and project development, there are still opportunities for South-South transfer of solar photovoltaic technology within these activities.

Is solar photovoltaics ready to power a sustainable future?

Victoria, M. et al. Solar photovoltaics is ready to power a sustainable future. *Joule* 6, 1041-1056 (2021).  
Dunnett, S. et al. Harmonised global datasets of wind and solar farm locations and power. *Sci. Data* 7, 130 (2020).  
Helveston, J. P., He, G. & Davidson, M. R. Quantifying the cost savings of global solar photovoltaic supply chains.

How do photovoltaics work?

Photovoltaics employ an electronic method to create electricity directly from sunshine and can be used to power everything from small gadgets such as calculators and traffic signs to residences and massive commercial enterprises (Solar Energy Industries Association, 2021).

China has become the world leader in the production of PV cells and modules, but remains far behind industrialized countries in the more upstream segments of the ...

DOI: 10.1016/j.energy.2023.129385 Corpus ID: 264361076; The impact of government subsidy on photovoltaic enterprises independent innovation based on the evolutionary game theory

This study uses data on 116 listed Chinese equipment manufacturing or material production enterprises in the non-hydropower renewable energy industries (i.e., wind, photovoltaic (PV), ...

Government subsidies (GSs) have triggered a remarkable increase in the production capacity of photovoltaic (PV) electricity in China. However, the lack of core ...

Solar photovoltaic (PV) technology is indispensable for realizing a global low-carbon energy system and, eventually, carbon neutrality. Benefiting from the technological developments in ...

As one of the representatives of renewable energy, the photovoltaic (PV)'s trade has received much attention from all walks of life. Based on bilateral PV trade data, complex ...

In the field of R& D, the PV R& D leads by the "Top Runner Program," which greatly enhanced the average PV cell and module efficiency. The 13th Solar Energy ...

Using an original dataset comprised of trade data and firm level data from primary source material and expert interviews, we examine the means by which Chinese companies ...

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Jietai New Energy focuses on the sales of high-efficiency solar cells. Product & Technology. Product & Technology. ... this ceremony aims to encourage the technological innovation and ...

Li Nan, a senior executive of the marketing department of an A-share listed photovoltaic company, said: "Some photovoltaic companies are not leading enterprises and ...

investment of photovoltaic power station, it is difficult for photovoltaic industry to obtain funds through the traditional financing channel of bank credit project loan. According to the ...

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

Using an original dataset comprised of trade data and firm level data from primary source material and expert interviews, we examine the means by which Chinese companies are deploying solar...

Our research highlights the technical and physical constraints on deploying renewables to mitigate CO 2

emissions, the importance of scaling up investments to ...

A Case Study on Rent Pricing of Financial Leasing of Photovoltaic Enterprises Taking Henan Yicheng New Energy Co., Ltd. as an example January 2020 E3S Web of ...

Photovoltaic solar energy is generated by transforming sunlight into electricity via a photoelectric effect-based technology. It is a form of intermittent, non-polluting energy ...

China's biggest advantage in PV lies in industrial chain coordination, where the value created by coordinated efforts in PV, including PV storage and PV hydrogen, far ...

Solar energy conversion originated from Jan Ingenhousz's hypothesis in 1779 (Magiels, 2007).Jan based this concept on Joseph Priestley's cylinder created in 1771 which ...

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