

<div class="df\_qntext">How did China control the global solar market?

The increased installed capacity, the heavy manufacturing, and the availability of materials on its domestic land allowed China to control the global solar market by imposing quotas and restrictions on importing countries. We have shown that China alone installed more than 50 % of the total Asian solar capacity in the span of 25 years.

<div class="df\_qntext">Why is China investing in solar energy?

Outward investments in solar technology are linked to the broader trends within China to promote overseas investments and build bilateral economic relationships, including through BRI. While the majority of BRI-related energy investments are in fossil energy, clean energy is emerging as a pillar in China's outward investment strategy.

<div class="df\_qntext">Do solar photovoltaics rely on the Chinese market?

With solar photovoltaics taking over recently, an in-depth look into their supply chain shows a surprising dependency on the Chinese market from the raw materials to the assembled PVs. This article tackles the main challenges in the solar energy market and sheds light on the opportunities in that industry.

<div class="df\_qntext">What is China's Overseas solar value chain?

To characterize China's overseas solar value chain we coded and aggregated overseas project activities into three broad categories associated with the solar PV value chain segment in which the project falls, either upstream, manufacturing or downstream, based on the typology used in Kirkegaard et al. (2010).

<div class="df\_qntext">Are Chinese companies deploying solar technology across emerging markets?

This study has examined China's overseas solar deployment activities and the implications for technology transfer in this sector. We find that Chinese companies are deploying solar technology across emerging and developed markets by exporting solar technology, building solar manufacturing bases, and establishing local service industries.

<div class="df\_qntext">Does China have a solar industry abroad?

China's solar PV industry has a presence abroad that dates back to the beginning of China's entry into the solar industry. Unlike China's wind industry, the solar industries largely relied on an international market for many of its early years, prompting Chinese companies to make greenfield investments in solar abroad as early as 2009 (AEI, 2019).

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factor when China-based suppliers dominate 78% of conventional solar panel ...

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This article aims to investigate the viability of reaching off-grid operation with reasonable thermal comfort for a container home within five different climates in China.



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