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# Surplus PV Project Components





## Overview

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Are solar PV supply chains cost-competitive?

Currently, the cost competitiveness of existing solar PV manufacturing is a key challenge to diversifying supply chains. China is the most cost-competitive location to manufacture all components of the solar PV supply chain. Costs in China are 10% lower than in India, 20% lower than in the United States, and 35% lower than in Europe.

Is polysilicon a bottleneck for solar PV?

Global capacity for manufacturing wafers and cells, which are key solar PV elements, and for assembling them into solar panels (also known as modules), exceeded demand by at least 100% at the end of 2021. By contrast, production of polysilicon, the key material for solar PV, is currently a bottleneck in an otherwise oversupplied supply chain.

Are solar PV supply chains ready for a net zero pathway?

For solar PV supply chains to be able to accommodate the requirements of a net zero pathway, they will need to be scaled up in a way that ensures they are resilient, affordable and sustainable. The world will almost completely rely on China for the supply of key building blocks for solar panel production through 2025.

How has global solar PV manufacturing capacity changed over the last decade?

Global solar PV manufacturing capacity has increasingly moved from Europe, Japan and the United States to China over the last decade. China has invested over USD 50 billion in new PV supply capacity – ten times more than Europe – and created more than 300 000 manufacturing jobs across the solar PV value chain since 2011.



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## The Global Solar Photovoltaic Supply Chain and Bottom ...

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## Components used in PV system design

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