

<div class="df_qntext">Should solar PV supply chains become more diversified and resilient?

Hence, from a sustainability perspective, it is critical that these supply chains become more diversified and resilient. Emerging markets and developing economies (such as India and Southeast Asian countries) are beginning to increase their engagement in solar PV supply chain activities.

<div class="df_qntext">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.

<div class="df_qntext">Why is supply chain development important for solar photovoltaic (PV) capacity growth?

Supply chain development is crucial for solar photovoltaic (PV) capacity growth; however, most of its crucial value chain segments are concentrated in specific geographies such as China, Europe and the United States. Hence, from a sustainability perspective, it is critical that these supply chains become more diversified and resilient.

<div class="df_qntext">How can countries improve their solar PV supply chain resiliency?

One way in which countries can enhance their solar PV supply chain resiliency, and facilitate greater market access, is through participation and conformance to the international quality infrastructure ecosystem for this technology.

<div class="df_qntext">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.

<div class="df_qntext">Which country produces the most cost-competitive solar PV supply chain?

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. Large variations in energy, labour, investment and overhead costs explain these differences.

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Advanced solar container materials industry chain

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