

<div class="df\_qntext">What role will China play in the solar PV supply chain?

However,irrespective of European regional goals,China will maintain a predominant rolein the solar PV supply chain due to the advantages of manufacturing capacity and costs,and the need to expand global capacity by over 1.5 times.

<div class="df\_qntext">What is a solar PV supply chain?

The supply chain itself considers the production of solar PV's five main components: polysilicon,ingots,wafers,cells,and modules. Producing each component requires input from lower-value components; namely,producing modules requires cells,producing cells requires wafers,and so on (as shown in Fig. 1a and Supplementary Fig. 1).

<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. Chinais 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">Which country produces the most cost-competitive solar PV supply chain?

Chinais 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.

<div class="df\_qntext">What does Europe mean in a solar PV supply chain?

In the main text,Europe (EUR) indicates the region that includes Germany,Switzerland,and ROE. Each region is modeled as a node with PV demand,production capacity,and production costs. The supply chain itself considers the production of solar PV's five main components: polysilicon,ingots,wafers,cells,and modules.

<div class="df\_qntext">What are conversion factors in solar PV supply chain?

Conversion factors between segments in PV supply chain, stocks of modules, lead time for manufacturing investment by region and product, and job creation of the manufacturing by product are collected from the Special Report for Solar PV Global Supply Chain from IEA 4.

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