

Solar container battery exports surge





Overview

Industry data reveals that exports of photovoltaic (PV) modules and lithium-based energy storage systems surged in Q1 2025, especially toward regions emphasizing energy independence and climate resilience. Are solar PV exports worth more than EVs & batteries?

Other sectors saw more modest growth – grid technology up 22%, wind up 16%, and heating and cooling systems up 4% – but those gains were offset by a 19% drop in solar PV export value. EVs and batteries are now worth more than double the value of China's solar PV exports.

Should China be worried about oversupply in the energy storage sector?

Indeed, most overseas production capacity has been allocated to electric vehicles (EVs), limiting the local supply flowing into the energy storage sector, thus leaving a huge opportunity for China's exports. Nevertheless, Chinese manufacturers should be cautious of persistent oversupply in the energy storage segment.

Why are China's Solar Exports reducing?

As more markets continue to adopt local content requirements (LCRs), China will start to face increasing constraints for solar exports. In response to growing LCRs, Chinese players are globalising manufacturing capacity to offset a loss in exports. Energy storage investors expand overseas footprint.

How did China's Solar Exports perform in 2023?

China's 2023 solar exports hit a record high with over 40% growth for all equipment. The surge was dominated by modules that reached a new high of 227 GW. Meanwhile, cells had the most rapid growth at 61.6% to 38 GW. The country consolidated its control over module supply chain manufacturing, with its share exceeding 80%.



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