

## SolarTech Power Solutions

# Does home solar energy storage have much export potential



## Overview

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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. What is solar energy storage?

Solar energy storage refers to a component that reserves power for future consumption, which is charged by a solar system connected to it. This stored energy can be used when there is no sunlight or during times of high electricity demand.

How are solar exports compensated under NEM 3?

Under NEM 3.0, solar exports are compensated at the “avoided cost”, or ACC, which represents the long-term hourly value of a distributed energy resource (DER) for the utility grid, measured in \$/kWh. The California Public Utilities Commission calculates these values every year.

Is China entering a new era of energy storage demand?

Mainland China accounts for most of the global energy storage demand, driven in the near term by regional requirements for new utility-scale wind and solar projects to include energy storage capacity. However, the Chinese market is entering an era of change.

Why do homeowners install solar batteries?

Solar self-supply: Homeowners may also install batteries out of a desire to green their electricity consumption by increasing their solar self-supply. This may not always correlate with reducing their energy bills, and such customers may be willing to pay a financial premium to go green and support the energy transition.

What is a residential energy storage system?

Residential energy storage systems integrate various components including

battery cells, modules, power conversion systems (PCS), software i.e., battery management systems (BMS) and energy management systems (EMS), and other balance of plant items.

How much kWh can a solar system save a year?

There is not yet a full year of data to ascertain actual system savings, but the absolute best case of the six summer months being the same as the winter months and therefore the system saving 1,172 kWh per year at £0.27 per kWh would save just £316 per year – a payback time of over 20 years.

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