

ContainerPower Energy Solutions

The demand for energy storage for rooftop solar



Overview

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The US solar industry installed 7.5 gigawatts direct current (GW dc) of capacity in Q2 2025, a 24% decline from Q2 2024 and a 28% decrease since Q1 2025. Solar accounted for 56% of all new electricity-generating capacity added to the US grid in the first half of 2025, with a total of 18 GW.

A new study warns that rooftop solar's emissions benefits are declining in the United States as power grids become less carbon intensive, underscoring the need to update how renewable impact is measured. From pv magazine USA The first solar panels practically yeeted coal off the grid. But progress.

The residential storage market is now experiencing significant expansion, driven by a confluence of factors making battery storage increasingly appealing to homeowners incorporating PV systems. The growing frequency of public-safety power shut-offs, exacerbated by severe weather events and grid.

This study examines complementarities in the demand for rooftop solar and an accessory, battery energy storage. Using nationwide administrative data, we estimate a dynamic nested-logit model of solar and storage adoption. We quantify the demand complementarity between solar and storage, and find.

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