

# Photovoltaic energy storage equipment price trend chart



## Overview

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The interactive figure below presents results on the total installed ESS cost ranges by technology, year, power capacity (MW), and duration (hr). Data source: IRENA (2025); Nemet (2009); Farmer and Lafond (2016) - Learn more about this data Note: Costs are expressed in constant 2024 US\$ per watt. Global estimates are used before 2010; European market. Each year, the U. Department of Energy (DOE) Solar Energy Technologies Office (SETO) and its national laboratory partners analyze cost data for U. solar photovoltaic (PV) systems to develop cost benchmarks. These benchmarks help measure progress toward goals for reducing solar electricity costs. NLR analyzes the total costs associated with installing photovoltaic (PV) systems for residential rooftop, commercial rooftop, and utility-scale ground-mount systems. President-elect Trump has proposed a 60% tariff on all imports from China. If executed, turnkey grid-scale storage costs for Chinese systems could be US\$ 1,084 - 1,204 / kW.

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Due to limited data availability, we use the Global Price Index series reported by IRENA, based on pvXchange benchmark prices for modules sold in Europe. Historical prices have been ...



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Susceptible to market demand, production plans, and socioeconomic factors, prices across the PV supply chain have fluctuated since late 2023, a pivotal period of p-type to



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We show bottom-up manufacturing analyses for modules, inverters, and energy storage components, and we model unique costs related to community solar installations. We also account for PV ...

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