

SolarTech Power Solutions

The cost per kilowatt-hour of solar and energy storage



Overview

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The National Renewable Energy Laboratory (NREL) publishes benchmark reports that disaggregate photovoltaic (PV) and energy storage (battery) system installation costs to inform SETO's R&D investment decisions. This year, we introduce a new PV and storage cost modeling approach. The PV System Cost.

Market analysts routinely monitor and report the average cost of PV systems and components, but more detail is needed to understand the impact of recent and future technology developments on cost. Consequently, benchmark systems in the utility-scale, commercial, and residential PV market sectors.

A typical American household needs a 10-kilowatt (kW) system to adequately power their home, which costs \$28,241 in 2025. That price effectively drops to \$19,873 after considering the full federal solar tax credit. NOTE: Under the "One Big Beautiful Bill Act" signed in July 2025, the federal solar.

The secret sauce lies in energy storage - and here's the kicker: solar storage costs per kWh have fallen 80% since 2013, faster than smartphone prices dropped in their first decade [6]. Let's unpack what this means for your wallet. What's Behind the Price Tag?

The 5 Cost Components Think of a solar.

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kWh price declines with scale, but can rise if the project requires.

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