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Energy storage battery price factors



Overview

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But what will the real cost of commercial energy storage systems (ESS) be in 2025?

Let's analyze the numbers, the factors influencing them, and why now is the best time to invest in energy storage.

Most homes and small businesses pay between \$6,000 and \$23,000 for everything. This covers the battery, inverter, labor, and other parts. A normal 11.4 kWh battery costs about \$9,041. Bigger systems, like a 100 kWh setup, can cost \$30,000 or more. In 2025, the cost per kWh is between \$200 and \$400.

Over the past decade, battery prices have fallen drastically, making EVs more affordable and energy storage more viable. But how much have these prices actually dropped?

And what does the future hold for battery costs?

1. In 2020, the average lithium-ion battery pack price was \$137 per kWh.

In support of this challenge, PNNL is applying its rich history of battery research and development to provide DOE and industry with a guide to current energy storage costs and performance metrics for various technologies.

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