

# Sodium Energy Storage Costs: Breaking Down the Future of Affordable Power

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## Why Sodium Energy Storage Is Stealing the Spotlight

Let's face it--lithium-ion batteries have been the Beyonc? of energy storage for years. But sodium energy storage costs are now dropping faster than a TikTok trend, making this tech a serious contender. The global energy storage market, valued at \$33 billion, is buzzing about sodium's potential to slash costs while using Earth's 6th most abundant element. Want to know why utilities and startups are betting big on this? Let's dive in.

## The Cost Game-Changers: Where Sodium Shines

### 1. Material Costs: Sodium vs. Lithium Showdown

Here's the scoop: sodium is literally dirt-cheap compared to lithium. While lithium prices swing between \$13-\$20/kg, sodium lingers around \$0.30/kg. Why? Sodium sources range from seawater to table salt leftovers--it's as abundant as sand on a beach. This cuts raw material costs by 80-90%, according to 2024 industry reports.

### 2. Manufacturing: No Reinventing the Wheel

Sodium-ion batteries use similar production lines to lithium-ion. Translation? Factories can pivot faster than a Tesla avoiding a pothole. CATL already rolled out sodium batteries in 2023 with 160 Wh/kg density--not bad for version 1.0!

Existing lithium facilities require

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