



WALMER ENERGY

# Sodium-ion battery cost





## Overview

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What is a sodium ion battery?

Overall, we provide a broad and interdisciplinary perspective on modern batteries and future directions for this field, with a focus on sodium-ion batteries. Sodium-ion batteries are an appealing alternative to lithium-ion batteries because they use raw materials that are less expensive, more abundant and less toxic.

Could sodium ion batteries lower the cost of EV batteries?

CATL has three groundbreaking EV batteries but the most important is Sodium ion batteries that could lower the cost of batteries. Chinese engineers at CATL have begun mass-producing sodium-ion cells at their new 30GWh facility in Fujian province. Chery and BYD will start using them in a few months.

Are sodium ion batteries a viable alternative to lithium-ion?

Sodium-ion batteries, developed by CATL, are a sustainable alternative to lithium-ion technology. They offer lower costs, inherent safety, and suitability for EVs and renewable energy systems. With a potential cost reduction to \$10/kWh, sodium-ion batteries use sodium's abundance and safety to address energy storage challenges.

How much does a sodium carbonate EV battery cost?

Sodium carbonate costs \$200/ton versus lithium carbonate's \$15,000/ton (2025 prices). CATL's new Naxtra sodium-ion "salt" EV battery costs just \$10-\$19/kWh – about one-tenth of current lithium-ion prices (~\$100-\$115/kWh).



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CATL's Breakthrough Sodium-Ion Tech Slashes Battery Costs ...

May 27, 2025 · The implications are massive. At one-tenth the cost of lithium alternatives, sodium-ion batteries could instantly make affordable EVs -- like Tesla's upcoming \$25,000 Model 2 -- ...

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CATL Sodium Ion Batteries Lower Cost Than ...

Aug 15, 2025 · CATL has three groundbreaking EV batteries but the most important is Sodium ion batteries that could lower the cost of batteries.

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Future Sodium Ion Batteries Could Be Ten ...

Sep 1, 2023 · The first generation sodium ion are a bit cheaper than LFP but the volumes will not be worldchanging. However, the second generation ...

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Sodium-ion Batteries 2024-2034: Technology, ...

Dec 18, 2023 · Sodium-ion Batteries 2024-2034 provides a comprehensive overview of the sodium-ion battery market, players, and technology ...

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Sodium-Ion Batteries in 2026: Breaking ...

Sep 1, 2025 · The sustained high price of lithium carbonate has intensified cost pressures on downstream power battery and energy storage ...

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Sodium-ion battery cell cost could drop to \$40/kWh, says ...

Nov 28, 2025 · Sodium-ion batteries (SIBs) could offer a promising cost-reduction alternative to lithium-ion batteries (LIBs), according to a report from the International Renewable Energy ...

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CATL Sodium Ion Batteries Lower Cost Than Lithium Ion Batteries

Aug 15, 2025 · CATL has three groundbreaking EV batteries but the most important is Sodium ion batteries that could lower the cost of batteries.

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Sodium-Ion Battery Price Trends: A Comprehensive Guide ...

May 23, 2025 · The Ultimate Guide to Sodium-Ion Battery Pricing and Technology As the demand for sustainable energy solutions grows, sodium-ion batteries are emerging as a viable ...

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Sodium-ion Batteries 2024-2034: Technology, Players

Dec 18, 2023 · Sodium-ion Batteries 2024-2034 provides a comprehensive overview of the sodium-ion battery market, players, and technology trends. Battery benchmarking, material ...

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CATL's \$19/kWh Sodium-Ion Claims Face Reality Check in ...

Sep 15, 2025 · Current LFP cells cost ~\$60-\$70/kWh while CATL aims for sodium-ion to hit \$40-\$50/kWh at scale, creating a 30% cost advantage that could influence procurement decisions



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Lower-cost sodium-ion batteries are finally ...

Dec 6, 2024 · Sodium-ion batteries for electric vehicles and energy storage are moving toward the mainstream. Wider use of these batteries could ...

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Sodium-Ion Batteries at NOVONIX: Market Landscape, ...

Jun 13, 2025 · Author: Eniko Zsoldos, PhD - Senior Scientist, Cell R& D at NOVONIX Introduction to Sodium Ion Batteries (SIB) After three decades of steadily falling lithium-ion battery (LIB) ...

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CATL's \$19/kWh Sodium-Ion Claims Face ...

Sep 15, 2025 · Current LFP cells cost ~\$60-\$70/kWh while CATL aims for sodium-ion to hit \$40-\$50/kWh at scale, creating a 30% cost advantage ...

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Sodium-Ion Batteries in 2026: Breaking Through Lithium's Price ...

Sep 1, 2025 · The sustained high price of lithium carbonate has intensified cost pressures on downstream power battery and energy storage companies. At the same time, it has opened a ...

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CATL's Breakthrough Sodium-Ion Tech ...

May 27, 2025 · The implications are massive. At one-tenth the cost of lithium alternatives, sodium-ion batteries could instantly make affordable EVs -- ...

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The Sodium-Ion Revolution: A Brutally Honest Economic ...

Sep 15, 2025 · For a compact, the switch to a Sodium-Ion battery could reduce the final sticker price by an estimated \$1,600, at the cost of a 15-20% reduction in range. This is the ...

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A cost and resource analysis of sodium-ion batteries

Mar 13, 2018 · Moreover, we compare the calculated production costs of exemplary sodium-ion and lithium-ion batteries and highlight the most relevant parameters for optimization.

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Cost and performance analysis as a valuable tool for battery ...

Mar 6, 2024 · Cost and performance analysis, if applied properly, can guide the research of new energy storage materials. In three case studies on sodium-ion batteries, this Perspective ...

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CATL Sodium-Ion Batteries Cuts Costs By 90%

Aug 15, 2025 · CATL's sodium-ion batteries promise \$10/kWh storage and 90% lower costs. See how they could transform EVs and grid energy worldwide fast.

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Aug 15, 2025 · CATL's sodium-ion batteries promise \$10/kWh storage and 90% lower costs. See how they could transform EVs and grid energy ...

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PowerCap Unveils Sodium-Ion Battery for ...

Dec 6, 2024 · PowerCap has unveiled an innovative Sodium-ion Battery system tailored for



home energy storage. This advancement offers a ...

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Experts: sodium-ion batteries to enter large ...

Sep 28, 2025 · Experts forecast sodium-ion commercialization by 2026, citing policy support, standardization, and advantages in safety, cost, and low ...

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Sodium-ion Battery vs Lithium-ion Battery ...

Jun 7, 2025 · Explore sodium-ion vs lithium-ion batteries in 2025: performance, price, safety, and use cases--all in one friendly comparison.

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