



New energy storage nano-ion battery





Overview

CATL launches large-scale sodium-ion battery deployment in 2026 for electric vehicle applications, energy storage, and commercial fleets. Naxtra brand offers 500km range, superior cold performance, and lower costs—explore trends and impacts.

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Energy storage beyond lithium ion is rapidly transforming how we store and deliver power in the modern world. Advances in solid-state, sodium-ion, and flow batteries promise higher energy densities, faster charging, and longer lifespans, enabling electric vehicles to travel farther, microgrids to.

CATL announced for widespread sodium-ion battery rollout in 2026. Global electric vehicle sales topped 20 million units in 2025, with battery innovations like sodium-ion tech accelerating adoption across sectors. Companies such as CATL now push sodium-ion batteries into passenger cars, trucks, and.

The world's biggest battery maker CATL will be taking advantage of the rising lithium prices and will start mass sodium-ion battery production in 2026. Its record breaking Naxtra line of Na-ion batteries will be deployed in electric cars, energy storage systems, commercial vehicles, and even.

CATL plans large-scale sodium-ion battery deployment in 2026 for swap systems, EVs, and energy storage. Its Naxtra cells offer up to 175 Wh/kg energy density, -40 °C performance, and meet China's new safety standard. Contemporary Amperex Technology Co., Ltd. (CATL) has announced plans to initiate.

CATL announced it expects a new trend of “sodium and lithium batteries shining brightly together.” Chinese battery giant CATL has detailed a wider and larger-scale deployment of its sodium-ion battery range across multiple sectors, including battery storage. Chinese media reports said that CATL, at.



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[CATL confirms significant upgrade to sodium-ion battery product ...](#)

They include an expansion in applications to include energy storage, plus use in battery swap systems, passenger vehicles, and commercial vehicles. CATL said this ...

[Nano batteries explained: Structure, benefits, applications, and ...](#)

This article will provide an in-depth exploration of nano batteries, including their definition, composition, types, charge-discharge principles, performance advantages, main ...



[New quantum battery design promises fast ...](#)

New quantum battery design promises fast-charging, ultra-compact energy storage It holds promise for nanoscale energy storage, ...

Batteries News

Read the latest research on everything from new longer life batteries and batteries with viruses to a nano-size battery.



[CATL to Deploy Sodium-Ion Batteries at Scale in 2026](#)

CATL plans large-scale sodium-ion battery deployment in 2026 for swap systems, EVs, and energy storage. Its Naxtra cells offer up to 175 Wh/kg energy density, -40 °C ...



[Nanomaterials for Energy Storage Systems--A ...](#)

The ever-increasing global energy demand necessitates the development of efficient, sustainable, and high-performance energy ...



[Energy Storage Beyond Lithium-Ion: Future Energy Storage and ...](#)

Energy storage beyond lithium ion explores solid-state, sodium-ion, and flow batteries, shaping next-gen energy storage for EVs, grids, and future power systems.



[Next-generation energy storage: A deep dive into experimental ...](#)



Discusses battery applications in EVs, renewable energy storage, and portable electronics, linking research to practical needs. This manuscript provides a comprehensive ...



[UChicago, UC San Diego labs create breakthrough new sodium-based battery](#)

UChicago Pritzker Molecular Engineering Prof. Y. Shirley Meng's Laboratory for Energy Storage and Conversion has created the world's first anode-free sodium solid-state ...

[9 New Battery Technologies to Watch , Built In](#)

Most battery-powered devices, from smartphones and tablets to electric vehicles and energy storage systems, rely on lithium-ion ...



[Next-generation energy storage: A deep dive into experimental ...](#)

This manuscript provides a comprehensive overview of experimental and emerging battery technologies, focusing on their significance, challenges, and future trends. The growing ...

[Sodium-ion batteries cheaper than lithium again as CATL starts ...](#)



Its record breaking Naxtra line of Na-ion batteries will be deployed in electric cars, energy storage systems, commercial vehicles, and even battery swap stations en masse.



[Nanotechnology-Based Lithium-Ion Battery Energy](#)

Conventional energy storage systems, such as pumped hydroelectric storage, lead-acid batteries, and compressed air energy ...

Nanobatteries

A battery's ability to store charge is dependent on its energy density and power density. It is important that charge can remain stored and that a maximum amount of charge can be stored ...



[New quantum battery design promises fast-charging, ultra-compact energy](#)

New quantum battery design promises fast-charging, ultra-compact energy storage. It holds promise for nanoscale energy storage, optical quantum communication, and much more.



[CATL Sodium-Ion Batteries: Scaling Up for 2026 EV Revolution](#)



CATL launches large-scale sodium-ion battery deployment in 2026 for electric vehicle applications, energy storage, and commercial fleets. Naxtra brand offers 500km range, ...



[New energy storage to push batteries for electric ...](#)

Although water-in-salt aqueous electrolytes have a 3.0V stability window, they are still incompatible with high-energy lithium metal ...



[Nanomaterials for Energy Storage Systems--A Review](#)

Though relatively new, Na-S batteries provide superior energy density, higher durability, and low environmental impact; thus, they are well suited for extensive usage in electric vehicles, grid ...



[The Rise of Sodium-Ion Batteries: The Next ...](#)

For decades, lithium-ion (Li-ion) batteries have dominated the world of portable electronics, electric vehicles (EVs), and renewable ...



[Global news, analysis and opinion on energy ...](#)



In this Energy-Storage.news roundup, Hydrostor receives permitting approval for its California project, Hawaiian Electric is set to begin construction on ...

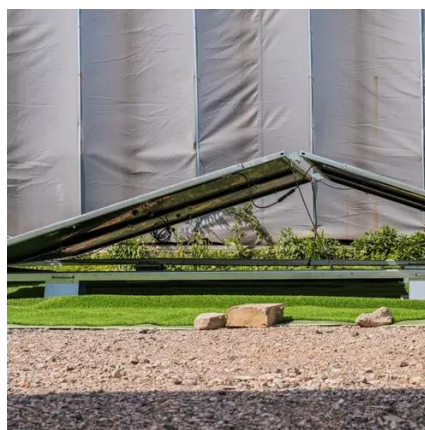


[Nano4EARTH Roundtable Discussion on Batteries and Energy Storage](#)

To illustrate, in the last decade, 9 GW of energy storage was added to the U.S. grid, and 99% of the new energy storage capacity has been provided by lithium-ion batteries.

[Nanomaterials for Energy Storage Systems--A Review](#)

The ever-increasing global energy demand necessitates the development of efficient, sustainable, and high-performance energy storage systems. Nanotechnology, ...



[A Deeper Look at Hidden Damage: Nano-CT ...](#)

As battery storage capacity across the United States continues to grow, constraints on the mining, refining, and processing of ...

[What Nano Can Do for Energy Storage](#)



A large variety of processes that occur during charge storage may be confusing for chemists and material scientists that are new to the ...



'Faster charging, longer lifespan': Next-generation battery

This structure enables both high energy storage and mechanical robustness, making it ideal for high-rate and long-life applications. However, incorporating tin presented ...



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