

# Sodium sulfur battery news



## Overview

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Now, researchers from China have revealed a new battery design that may offer a better alternative to lithium. The new study, published in Nature, describes a sodium and sulfur-based, anode-free design offering a high voltage. Room-temperature sodium-sulfur (Na-S) batteries offer a sustainable energy storage solution to conventional lithium (Li)-based systems 1, 2, 3, owing to the high element abundances and theoretical electrochemical performance 4, 5. Researchers say they are far more sustainable and . The manufacturer cites rising material costs, heightened competition from lithium-ion batteries, and the slow uptake of long-duration storage technologies as the reasons for the decision.

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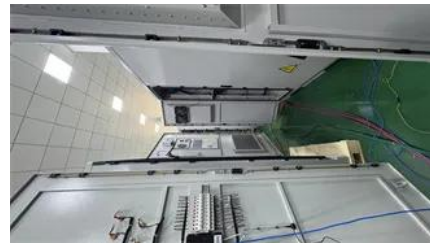


### [New sodium-sulfur battery may offer safer, cheaper alternative to lithium](#)

Now, researchers from China have revealed a new battery design that may offer a better alternative to lithium. The new study, published in Nature, describes a sodium and sulfur-based,

### **High-voltage anode-free sodium-sulfur batteries , Nature**

Here we report a 3.6 V class Na-S battery featuring a high-valence sulfur/sulfur tetrachloride (S/SCl<sub>4</sub>) cathode chemistry and anode-free configuration.



### [New sodium-sulfur battery prototype delivers high energy density](#)

Researchers have unveiled a sodium-sulfur battery prototype that targets high energy density without using rare metals. The design leverages abundant elements to cut material risk and improve supply

### [Japan's NGK discontinues manufacturing of sodium-sulfur batteries](#)

At its Board of Directors meeting on October 31, 2025, Japanese ceramics manufacturer NGK Insulators announced that it had resolved to discontinue the manufacturing and sales of its





### [Groundbreaking New Battery Technology Just Broke The Voltage Barrier](#)

One type of design researchers have been trying to get to a scalable level are sodium-sulfur batteries. Researchers say they are far more sustainable and affordable than lithium-ion batteries.

### [Breakthrough in Sodium-Sulfur Technology - 2,021 Wh/kg Battery](#)

Researchers from Shanghai Jiao Tong University have developed a sodium-sulfur battery prototype achieving an energy density of 2,021 watt-hours per kilogram (Wh/kg), a figure that directly



### [Chinese researchers develop high-voltage sodium-sulfur battery that](#)

A team of researchers in China has just pulled the curtain back on a new sodium-sulfur battery design that could fundamentally change the math on energy storage.

### [Chinese researchers develop sodium-ion battery design that forms](#)

Technicians assemble sodium-ion battery units at a production facility in central China's Henan Province (Image credit: Chinese Academy of Sciences)



### [Scientists create new solid-state sodium-ion battery - they say it'll](#)

Researchers made the breakthrough while developing solid-state sodium-ion (Na-ion)

batteries, which could one day supplement and replace the lithium-ion (Li-ion) batteries used in many

### [China's sodium-sulfur battery records energy density of 2,021 Wh/kg](#)

Researchers at Shanghai Jiao Tong University teamed up sodium with sulfur to make a high-energy-density battery. This is not the first attempt to pair sodium and sulfur. Batteries made



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