

# **New energy storage solutions to replace lithium batteries**





## Overview

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Are lithium-ion batteries the future of battery technology?

Because lithium-ion batteries are able to store a significant amount of energy in such a small package, charge quickly and last long, they became the battery of choice for new devices. But new battery technologies are being researched and developed to rival lithium-ion batteries in terms of efficiency, cost and sustainability.

Could AI replace lithium-ion technology?

AI is helping scientists crack the code on next-gen batteries that could replace lithium-ion tech. By discovering novel porous materials, researchers may have paved the way for more powerful and sustainable energy storage using abundant elements like magnesium.

What is a lithium ion battery?

Most battery-powered devices, from smartphones and tablets to electric vehicles and energy storage systems, rely on lithium-ion battery technology. Because lithium-ion batteries are able to store a significant amount of energy in such a small package, charge quickly and last long, they became the battery of choice for new devices.

Could AI make lithium-ion batteries obsolete?

AI has uncovered promising new materials that could make lithium-ion batteries obsolete and revolutionize energy storage. Credit: Shutterstock AI just helped scientists find five new materials that might outperform lithium in future batteries.



## New energy storage solutions to replace lithium batteries



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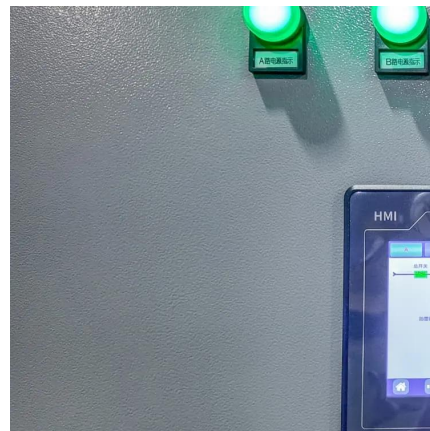


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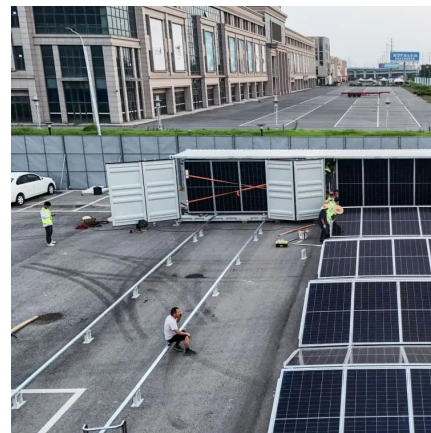


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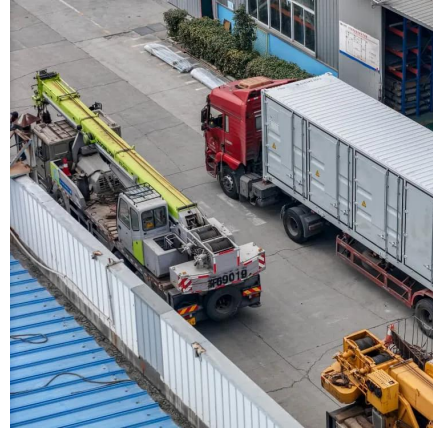
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