



Sodium ion battery wh kg





Overview

Sodium-ion batteries, with their remarkable energy density of 458 Wh/kg, are emerging as worthy rivals to Lithium-ion technology. This significant leap in energy storage capabilities is made possible by a groundbreaking material, $\text{Na}_x\text{V}_2(\text{PO}_4)_3$. Composed of sodium phosphate and vanadium, this. Researchers have developed a new type of material for sodium-ion batteries that could pave the way for a more sustainable and affordable energy future. Credit:

JustAnotherCarDesigner/Wikipedia Recurring stories and special news packages from C&EN. In 2026, I think it could be the biggest battery topic.



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[CATL Makes Big Announcement on Sodium Batteries for 2026](#)

The Naxtra Sodium-Ion Battery is the current flagship, recently passing China's national safety standards for large-scale supply. Energy Density: 175 Wh/kg, which is comparable to early ...

[Sodium-ion batteries hit 458 Wh/kg: Breakthrough material closes gap](#)

With a higher energy density of 458 watt-hours per kilogram (Wh/kg) compared to the 396 Wh/kg in older sodium-ion batteries, this material brings sodium technology closer to



[Next-generation anodes for high-energy and low-cost sodium-ion](#)

Indeed, the Naxtra battery announced by CATL in April 2025, which delivers a cell-level energy density of up to 175 Wh kg⁻¹, highlights the importance of both high-capacity cathodes and ...

[Sodium-Ion Batteries Achieve 458 Wh/kg Energy Density, Rivalling](#)

Sodium-ion batteries, with their remarkable energy density of 458 Wh/kg, are emerging as worthy rivals to Lithium-ion technology. This significant leap in energy storage capabilities is made ...



[Energy Density Breaks 348.5 Wh/kg! Zhaona New Energy's Solid ...](#)

On December 31, 2025, Sodium Technology announced that its large-format (above 25 Ah) all-solid-state sodium-ion battery cell achieved an energy density of 348.5 Wh/kg, certified by the China ...

[CATL Says Sodium-Ion Battery Reaches 175 Wh/kg. Ready For Mass ...](#)

Contemporary Amperex Technology Co., Limited (CATL) said its sodium-ion battery has reached an energy density of 175 Wh/kg, supporting a driving range of more than 500 kilometres for ...



[Sodium-Ion Batteries Will Gain Ground This 2026 , IMI](#)

Flexibility CATL is advancing hybrid battery packs that combine sodium-ion and LFP cells, allowing automakers to balance cost, performance, and safety. The sodium-ion cells offer 175 Wh/kg ...

Sodium-ion batteries: A technology



brief

Unlike LIBs, SIBs rely on sodium compounds derived from abundant raw materials (e.g. soda ash), which are far more plentiful than lithium. This abundance suggests SIBs could help ease supply ...



Sodium-ion batteries: Should we believe the hype?

The market research firm Adams Intelligence reckons that over the next 2-7 years, technological advances will help push the energy density of sodium-ion batteries beyond 200 Wh/kg, about where ...

[Sodium-ion batteries set to go mainstream as they hit LFP price and](#)

Modern sodium-ion batteries now hit 165 Wh/kg and a lifespan of 10,000 cycles, with operating temperatures in a very wide -40°C to 45°C range without capacity loss.

DETAILS AND PACKAGING





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