



# Sodium ion energy storage system





## Overview

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The future of sodium-ion batteries holds immense potential as a sustainable and cost-effective alternative to traditional lithium-ion batteries by addressing critical challenges in energy storage, scarcity of lithium, and sustainability. 1 is the first commercially available sodium-ion battery energy storage system built for grid-scale deployment. Powered by NFPP chemistry, it operates without active cooling- a global first at scale. The reliance on sodium sourced from soda ash supports environmentally friendly practices that avoid the energy-intensive process that is often associated with lithium mining.



## Sodium ion energy storage system



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

Sodium-ion batteries are promising low-cost alternatives to lithium-ion systems yet limited by underperforming anodes. This Review highlights advances and challenges in hard carbon and ...

### Peak Energy

Peak Energy designs and deploys next-gen sodium-ion energy storage that is safer, lower-cost, and more reliable. Our systems remove legacy failure points and enable rapid grid growth to meet the ...

Our Lifepo4 batteries can be connected in parallels and in series for larger capacity and voltage.



### [Sodium-ion batteries: 10 Breakthrough Technologies 2026](#)

Storing clean energy generated by solar and wind has long been a challenge. Sodium-ion batteries, with their low cost, enhanced thermal stability, and long cycle life, are an attractive

### [Comprehensive review of Sodium-Ion Batteries: Principles, Materials](#)

While sodium-ion batteries have lower energy density than lithium-ion batteries, they provide a sustainable and cost-effective energy storage solution for specific applications such as grid ...



### [The US's first grid-scale sodium-ion battery is now online](#)

Peak Energy's sodium-ion phosphate pyrophosphate (NFPP) battery storage system was unveiled in July and is now running at the Solar Technology Acceleration Center (SolarTac) in ...



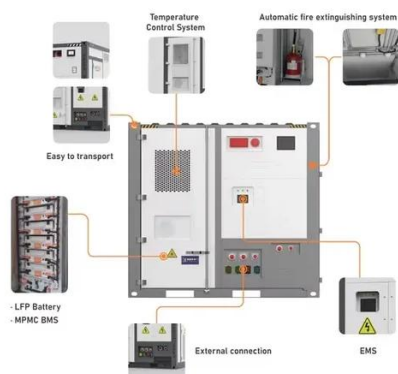
### [An overview of sodium-ion batteries as next-generation sustainable](#)

While efforts are still needed to enhance the energy and power density as well as the cycle life of Na-ion batteries to replace Li-ion batteries, these energy storage devices present significant advantages in ...



### [World-largest sodium-ion phosphate battery system launched, ...](#)

Peak Energy announced the launch and shipment of its sodium-ion battery energy storage system (ESS). The solution delivers a patent-pending passive cooling design to dramatically reduce



### [Sodium Batteries for Use in Grid-Storage](#)



## Systems and Electric Vehicles

The future of sodium-ion batteries holds immense potential as a sustainable and cost-effective alternative to traditional lithium-ion batteries by addressing critical challenges in energy ...



## Sodium-Ion Batteries Have Landed In America. Now Comes The ...

Under its agreement with Texas-based energy provider Jupiter Power, Peak Energy will provide 4.75 gigawatt-hours of sodium-ion battery energy storage systems (ESS) for deployment ...

## Sodium-Ion Batteries Reach U.S. Grid Storage. But Big Challenges ...

Experts say sodium-ion batteries offer several meaningful advantages over conventional lithium-ion chemistries. They degrade more slowly, maintain performance in extreme temperatures ...





## Contact Us

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