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European Solar Energy Storage

Domestic sodium battery energy storage pilot

Overview

Peak Energy shipped out its first sodium-ion battery energy storage system, and the Burlingame, California-based company says it’s achieved a first in three ways: the US’s first grid-scale sodium-ion battery storage system; the largest sodium-ion phosphate pyrophosphate (NFPP) battery.

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Sodium-ion battery energy storage system (BESS) startup Peak Energy has launched and shipped its first sodium-ion BESS to be deployed in a shared pilot with nine utilities and independent power producers (IPPs). The company says the system is the “first ever fully passive MWh scale battery storage.

Peak Energy's solution is the first battery energy storage system to remove nearly all moving parts with new patent-pending technology, driving significant cost-savings DENVER, July 31, 2025 /PRNewswire/ -- Peak Energy, a U.S.-based company developing low-cost, giga-scale energy storage technology.

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This technology strategy assessment on sodium batteries, released as part of the Long-Duration Storage Shot, contains the findings from the Storage Innovations (SI) 2030 strategic initiative. The objective of SI 2030 is to develop specific and quantifiable research, development, and deployment.

In a shared pilot with utilities and IPPs, Peak Energy’s passively cooled sodium-ion system targets a 20% lifetime cost drop and a 33% cut in degradation over 20 years. Peak Energy, a Denver-based battery manufacturer, announced today the launch of the first grid-scale sodium-ion pyrophosphate.

The first sodium-ion BESS for grid-level electricity storage has become operational in the US with unique passive cooling system and longer lifespan. The cheaper and safer sodium-ion batteries are making commercial progress, appearing in electric vehicles and ESS projects alike. Daniel Zlatev.

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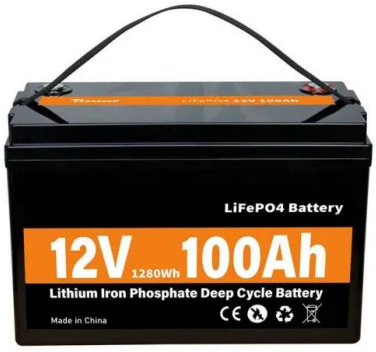

Peak Energy Delivers First Grid-Scale, Sodium-Ion Battery Storage

Peak Energy's pilot marks a significant first step in commercializing sodium-ion battery storage in the United States and unlocks nearly 1GWh of future commercial contracts currently under

Nautilus Energy Technology

At Nautilus, we are committed to pioneering a domestic supply chain for longer-duration battery energy storage systems (BESS), driving innovation, and ensuring a cleaner, more reliable energy future for all.

Peak Energy just shipped the US's first grid-scale sodium-ion battery

Peak Energy debuts the US's first grid-scale sodium-ion battery, cutting costs and boosting reliability with passive cooling tech.

Peak Energy's Strategy for Domestic Sodium-Ion Energy Storage ...

Peak Energy is developing a cost-effective, domestic market for sodium-ion energy storage systems. The company's strategy involves scaling, partnerships, a three-phase plan, and leveraging incentives.

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Peak Energy launches first grid-scale sodium-ion BESS in US pilot

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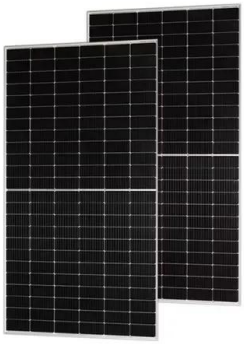
Peak Energy launches first U.S. grid-scale sodium-ion storage ...

Peak Energy, a Denver-based battery manufacturer, announced today the launch of the first grid-scale sodium-ion pyrophosphate (NFPP) battery system in the United States, which will be the largest of its kind in the world.



Technology Strategy Assessment

Much of the attraction to sodium (Na) batteries as candidates for large-scale energy storage stems from the fact that as the sixth most abundant element in the Earth's crust and the fourth most abundant element in the ocean, it is an inexpensive and globally accessible commodity.

Peak Energy Delivers First Grid-Scale, Sodium-Ion Battery Storage

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 demands of AI, electrification, and renewable power.

Sodium-ion battery for cheaper US grid energy storage deployed ...

The first sodium-ion BESS for grid-level electricity storage has become operational in the US with unique passive cooling system and longer lifespan.

Peak Energy on track to rapidly scale sodium-ion battery ...

As Peak Energy moves fast to industrialise sodium-ion, the company is already experiencing significant demand for its battery systems. With access to meaningful new capital, the company is entering the next phase of growth, launching the first full-scale production of sodium-ion storage in the US.

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