

## PEES Power Systems

# Nassau Sodium Energy Storage



## Overview

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As one of North America's most ambitious battery energy storage systems (BESS), this \$220 million marvel isn't just storing electrons—it's rewriting the rules of grid resilience. Let's unpack why tech giants and local communities alike are buzzing about this game-changer. US-based Peak Energy, a company focused on developing giga-scale energy storage technology for the grid, has announced a significant, multi-year agreement with Jupiter Power, a prominent developer and operator of utility-scale battery energy storage systems. Under the terms of the phased agreement, Sodium-ion batteries have officially entered the U. 12, 2025 /PRNewswire/ -- Peak Energy, a U.

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### 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 ...

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

American battery startup Peak Energy and energy developer Jupiter Power have teamed up to deploy grid-scale sodium-ion batteries. It's a big step forward for the nascent--and in some ways,



### 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 ...

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

Sodium-ion's debut in American grid storage marks a significant step forward, but widespread adoption is far from guaranteed. The technology shows promising advantages for ...



## The world's largest sodium-ion battery energy storage system with a

If the planned deliveries are completed as scheduled, the United States could see the creation of the world's largest portfolio of sodium-ion battery storage projects between 2027 and ...

## The Nassau Independent Energy Storage Project: Powering ...

That's exactly what the Nassau Independent Energy Storage Project aims to achieve. As one of North America's most ambitious battery energy storage systems (BESS), this \$220 million ...



## Scientists design low-cost



## sodium-ion battery with cheap electrode

Conceived for stationary energy storage, the proposed sodium-ion battery configuration relies on an P2-type cathode material and an hard carbon anode material that reportedly ensure full ...

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## Peak Energy Signs 4.75 GWh Contract with Jupiter Power for Industry

Under the agreement, Peak Energy will supply up to 4.75GWh of its industry-leading sodium-ion battery energy storage systems (ESS) to Jupiter Power, for deployment between 2027 ...



## World's largest 4.75 GWh sodium battery system set for US grid storage

Under the terms of the phased agreement, Peak Energy will supply up to 4.75 GWh of its sodium-ion battery energy storage systems (ESS). These systems are slated for deployment across ...

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## Peak Energy's \$500M deal will deploy the world's largest

## sodium-ion

Under the agreement, Peak will deliver 720 MWh of storage in 2027 - the largest single sodium-ion battery deployment announced so far. The deal also includes an option for an additional ...



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