

EQACC SOLAR

Sodium-ion battery energy storage in Southern Europe



Overview

This is where the “ENTISE” project (Development of Sodium-Ion Technology for Industrially Scalable Energy Storage) comes in, in which companies and universities work together towards the goal of European production of sodium-ion batteries. Is sodium-ion storage coming to the European battery industry?

“So far, sodium-ion storage has not yet arrived in the European battery industry,” says Maximilian Fichtner from the Institute of Nanotechnology (INT) of KIT and Director of the Helmholtz Institute Ulm, a research facility operated jointly by KIT, the University of Ulm and other partners, where research is also being carried out for ENTISE.

What is a sodium ion battery?

Sodium-ion offers a complementary solution to lithium-ion—cost-effective and based on abundant materials. Read about european sodium-ion battery cells [here!](#).

Are sodium-ion batteries a sustainable alternative to lithium-based storage?

Sodium-ion batteries are considered a more sustainable alternative to lithium-based storage. Sodium is not only inexpensive and abundant, but is also easy to recycle. The challenge, however, is to convert the new technology into industrially usable and scalable cells.

Why is Atena+ scaling up sodium-ion batteries?

ATENA+ is scaling up sodium-ion batteries to make energy storage safer, more affordable, and environmentally sustainable, shaping Europe’s green energy future. Views and opinions expressed are however those of the author (s) only and do not necessarily reflect those of the European Union or REA.

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Europe...

A roadmap for promoting the adoption of sodium-ion batteries through awareness campaigns and consumption incentives. Sodium-ion batteries have the potential to emerge as ...

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EPISODE - European Produced Sustainable Sodium-Ion Batteries ...

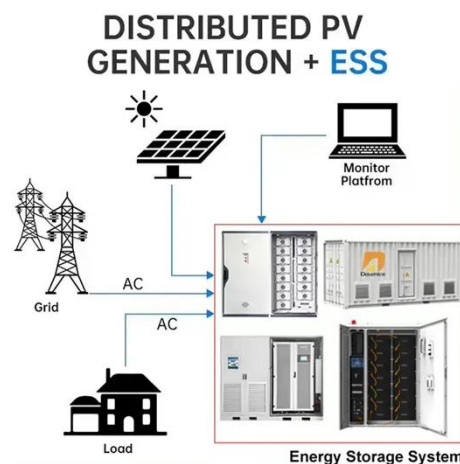
The EPISODE project has set itself the task of developing battery cells and battery storage systems based on sodium-ion technology.

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Australia's sodium-ion energy storage ...

Despite ongoing improvements to lithium-ion technology - particularly in cost, energy density, and safety - interest in sodium-ion ...

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Peak Energy, Phenogy deploy sodium-ion ...

Advances in sodium-ion battery energy storage systems come from Peak Energy in the US, deploying its sodium-ion

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Advanced Technology for stationary Energy storage systems in NA-ion

ATENA+'s main objective is to contribute to improve the competitiveness of the European Battery industry by demonstrating a new generation of safe, sustainable-by-design, ...

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ENTISE project: Sodium-ion batteries for Europe

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European Sodium-Ion Battery Cells Now a Reality , Stora Enso

Together, we're building batteries that Europe can be proud of. " With battery demand expected to rise 14-fold by 2030, sodium-ion offers a complementary solution to ...

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Comprehensive review of Sodium-Ion Batteries: Principles, ...

Sodium-ion batteries have a significant



advantage in terms of energy storage unit price compared to lithium-ion batteries. This cost-effectiveness stems from the abundance and ...

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Exclusive: sodium batteries to disrupt energy ...

With costs fast declining, sodium-ion batteries look set to dominate the future of long duration energy storage, finds an AI-based ...

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Europe Sodium-Ion Battery Analysis Report 2025-2035,

Abundant and cost-effective, sodium-ion batteries are ideal for grid-scale storage, renewable energy integration, and affordable mobility solutions.

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ENTISE project: Sodium-ion batteries for Europe

-- KIT Karlsruhe (@KITKarlsruhe)
OctoThis is where the "ENTISE" project
(Development of Sodium-Ion Technology

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Peak Energy, Phenogy deploy sodium-ion BESS projects in US and Europe

Advances in sodium-ion battery energy storage systems come from Peak Energy in the US, deploying its sodium-ion system in Colorado, and Phenogy, deploying Europe's ...

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Australia's sodium-ion energy storage technology launches in Europe

Despite ongoing improvements to lithium-ion technology - particularly in cost, energy density, and safety - interest in sodium-ion batteries remains strong. "Interest in our ...

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This work addresses the future energy demand of LIBs and their potential near-term competitors, sodium-ion batteries, by quantifying the cradle-to-gate and cradle-to-cradle ...

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These batteries facilitate a diversified supply chain, reducing dependency on specific countries for critical minerals important for green energy transition. The potential of ...


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☒ ON GRID/HYBRID

☒ PROTECTION IP54/IP55

☒ BATTERY /6000 CYCLES

Sodium-ion Battery

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European Sodium-Ion Battery Cells Now a ...

Together, we're building batteries that Europe can be proud of. " With battery

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CATL on sodium-ion, manufacturing and ...

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Report-Battery-energy-storage

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