

# Mauritius sodium ion battery storage

Why is battery energy storage system being introduced in Mauritius?

In view of the increasing share of the Variable Renewable Energy (VRE) in the energy mix of Mauritius, the CEB has planned for the introduction of Battery Energy Storage System on its network to arrest the fluctuation inherent to the VRE systems. The Mauritian energy transition to a low carbon economy is picking up speed.

Are Na and Na-ion batteries suitable for stationary energy storage?

In light of possible concerns over rising lithium costs in the future, Na and Na-ion batteries have re-emerged as candidates for medium and large-scale stationary energy storage, especially as a result of heightened interest in renewable energy sources that provide intermittent power which needs to be load-levelled.

Will sodium-ion batteries dominate the future of long-duration energy storage?

With costs fast declining, sodium-ion batteries look set to dominate the future of long-duration energy storage, finds AI-based analysis that predicts technological breakthroughs based on global patent data. Sodium-ion batteries' rapid development could see long-duration energy storage (LDES) enter mainstream use as early as 2027.

How much will sodium ion batteries cost in 2028?

Assuming a similar capex cost to Li-ion-based battery energy storage systems (BESS) at \$300/kWh, sodium-ion batteries' 57% improvement rate will see them increasingly more affordable than Li-ion cells, reaching around \$10/kWh by 2028.

Are sodium ion batteries a good investment?

Analysing 30 LDES technologies, the research found sodium-ion batteries to hold the most promise due to their fast improvement rate - around 57% in 2024. They offer more efficiency in round-trip energy use, greater operational flexibility and lose less energy during storage and supply.

How will Mauritius transition to a low carbon economy?

The Mauritian energy transition to a low carbon economy is picking up speed. The CEB has installed the first grid-scale Battery Energy Storage System (BESS), the first in its kind in Mauritius, to enable high capacity storage of renewable energy in the grid.

The 18 MW BESS comprise the latest lithium ion, high efficiency battery module technology with an extremely low response time of less than twenty milliseconds. They adopt the "containerised" format, that is, they are enclosed in standard size, but customised (mainly in terms of wall structure, sound and weather proofing and reinforcements ...

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Sodium-ion batteries offer a low-cost, versatile option due to the widespread availability of sodium. They provide reliable energy with quick charging capabilities, resilience to extreme temperatures, and a lower environmental impact, as they avoid the use of lithium, cobalt, and nickel.

The government of Mauritius has welcomed the commissioning of a 20MW battery storage project which will provide frequency regulation to the East African island nation's grid.

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5 ???&#0183; Recent developments in the sodium-ion battery sector show notable technological advancements and ongoing challenges in capacity expansion and project execution. ... HiNa Battery also recently supplied the world's first 100MWh sodium-ion energy storage project in June 2024, featuring 185Ah cells. READ: EVs and batteries in 2025, ...

These range from high-temperature air electrodes to new layered oxides, polyanion-based materials, carbons and other insertion materials for sodium-ion batteries, many of which hold promise for future sodium-based energy storage applications.

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