

Could a sodium-ion battery be a new business opportunity in Thailand?

The Federation of Thai Industries' Renewable Energy Industry Club sees potential in sodium-ion battery (SIB) production as an alternative to lithium-ion batteries. SIBs, made from rock salt, could offer a new business opportunity given Thailand's abundant rock salt reserves.

Are sodium-ion batteries environmentally friendly?

Prototype sodium-ion batteries developed by Khon Kaen University as an environmentally friendly alternative to lithium-ion ones. (Photo: Chakkrapan Natanri) Khon Kaen University (KKU) on Tuesday introduced a prototype of a sodium-ion battery, an environmentally friendly alternative to a lithium-ion battery.

Will a sodium ion battery replace a lithium-ion?

“The battery also exhibits Thailand's potential in the industry's competition,” Mr Charnchai said. Teerawut Thunnukij, a representative of the DPIM director-general, said that the department supported the research in the hope that the sodium-ion battery will one day replace the lithium-ion battery.

Can a sodium ion battery be made from rock salt?

According to the research team, a sodium-ion battery, produced from rock salt, is cheaper to manufacture, safer to use, and quicker to charge than a normal lithium-ion battery. The university believes there are tremendous investment opportunities for producing the battery, Mr Charnchai said.

What is a battery energy storage system?

Battery energy storage systems (BESS) are essential for buildings and renewable power generation facilities to ensure uninterrupted electricity supply. Renewable sources like solar and wind power are intermittent, and influenced by weather patterns. BESS mitigates this issue by storing electricity for future use.

Could rock salt be a new business opportunity for Thailand?

SIBs, made from rock salt, could offer a new business opportunity given Thailand's abundant rock salt reserves. Veeradej Tejapaibul, the vice-chairman of the club, suggested that government support for rock salt exploration could attract investment in SIB manufacturing.

The reserve of rock salt in Thailand accounts for 18 billion tons, an enormous amount of reserve. The ore is a precursor for manufacturing of sodium-ion batteries from rock salt. The development by KKU research team ...

When the battery discharges, sodium ions flow from the anode to the cathode, generating an electrical current. During charging, the ions return to the anode. Global Interest in Sodium-Ion ...

Thailand sodium ion home battery storage

According to the KKU president, the university and the Department of Primary Industries and Mines (DPIM) collaborated to build an internal battery that was expected to be the first of its ...

Large-Scale Sodium-Ion Battery Storage Facility Opens in China; Tin Anodes: A Game Changer for Sodium-Ion Batteries ... Hithium unveils 6.25 MWh BESS, sodium-ion battery cell, installation-free home ...

pressing need for inexpensive energy storage. There is also rapidly growing demand for behind-the-meter (at home or work) energy storage systems. Sodium-ion batteries (NIBs) are ...

BLUETTI's first-generation sodium-ion battery excels in thermal stability, fast-charging capacity, low-temperature performance, and integration efficiency, despite slightly lower energy density than its LiFePO₄ ones.

The Sodium-ion battery is one of alternative batteries used for various energy storage applications in Thailand, presenting enormous opportunities for manufacturing technology and solution ...

5 ???· Chinese energy storage specialist Hithium has used its annual Eco Day event to unveil a trio of innovative products: a 6.25MWh lithium-ion battery energy storage system (BESS), a ...

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5 ???· Chinese energy storage specialist Hithium has used its annual Eco Day event to unveil a trio of innovative products: a 6.25MWh lithium-ion battery energy storage system (BESS), a specialized sodium-ion battery for utility ...

Available for single-phase applications, the highly efficient DC-coupled SolarEdge Home Battery provides 9.7kWh of battery capacity and can be connected with up to three batteries per ...

Sparc Technologies" Sodium Ion Battery Materials Project is a significant contribution to the development of sustainable and cost-effective energy storage solutions. The company's breakthrough in the development of ...



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