Sodium ion battery storage project financing options in Finland 2025

What will the Finnish battery and electrification sector do in 2025?
In 2025, the Finnish Battery and Electrification sector will be a forerunner that provides skills, innovation, sustainable economic growth, well-being and new jobs for Finland. The Finnish battery cluster masters responsible production and optimal use of batteries and battery systems.

Is this Finland's largest battery energy storage system?
Swedish flexible assets developer and optimizer Ingrid Capacity has joined hands with SEB Nordic Energy's portfolio company Locus Energy to develop what is claimed to be Finland's largest and one of the Nordics' largest battery energy storage systems (BESS). The 70 MW/140 MWhBESS project will be located in Nivala,northern Finland.

Which energy storage technologies are being commissioned in Finland?
Currently,utility-scale energy storage technologies that have been commissioned in Finland are limited to BESS (lithium-ion batteries) and TES,mainly TTES and Cavern Thermal Energy Storages (CTES) connected to DH systems.

How can Finland attract the best talent in batteries and electrification?
In order to attract the best talent and skills in batteries and electrification to Finland,the Finnish battery sector needs to send a clear message,emphasising the strengths of the Finnish cluster. This calls for the following actions:

Can Finland be a leader in sustainable battery manufacturing and recycling?
In June 2020,The Ministry of Economic Affairs and Employment of Finland launched work to formulate a national battery strategy that will enable Finland to strengthen its role as a pioneer in sustainable battery manufacturing and recycling.

Can PHS be used as energy storage in Finland?
Plans exist for PHS systems,but studies have indicated that there may be few suitable locations for PHS plants in Finland [94,95]. While large electrolyzer capacities are planned to produce renewable hydrogen,only pilot-scale plans currently exist for their use as energy storagefor the energy system (power-to-hydrogen-to-power).

The Baochi Storage Station in Yunnan integrates lithium and sodium-ion technologies at scale, a global first, aiming to stabilize renewable energy and cut costs as China accelerates its energy transition.

Sodium-ion Batteries 2025-2035 provides a comprehensive overview of the sodium-ion battery market, players, and technology trends. Battery benchmarking, material and cost analysis, key player patents, and 10

year ...

"Finland is moving to this 15-minute settlement period which will increase the balancing cost of the wind companies so we expect to see more combined wind-battery projects in Finland," ...

The company operates within the energy storage and battery manufacturing sector. It specifically focuses on the emerging sodium-ion battery industry that offers cost advantages over traditional lithium-ion technologies.

With battery demand expected to rise 14-fold by 2030, sodium-ion offers a complementary solution to lithium-ion--cost-effective, non-toxic, and based on abundant ...

Founded by former Tesla leaders, Amsterdam-based Moonwatt is taking a novel approach to sodium-ion battery technology, optimizing it for colocation with solar power plants. The company has raised $8.3 million in ...

The innovative project located in a suburban district in the south of Shanghai will integrate five different energy storage technologies, including sodium-ion batteries. Its first phase will have a cumulative capacity of 40 ...

The energy storage sodium ion battery market size crossed USD 245.3 million in 2024 and is set to grow at a CAGR of 25.3% from 2025 to 2034, driven by rising demand for safer, thermally stable batteries that reduce fire and explosion risks ...

Germany Sodium-ion Battery Market Size & Forecast 2025-2033 Germany"s Sodium-ion Battery Market is expected to expand substantially from US$ 9.03 million in 2024 to US$ 18.41 billion ...

This dependency poses potential vulnerabilities for the U.S., given China"s export restrictions on critical battery technologies since 2024. Advantages of Sodium-Ion Batteries Sodium-ion technology offers potential ...

Tiamat initially wants to manufacture sodium-ion cells for power tools and stationary storage applications in its factory, but will later also produce a new generation of its ...

The project in Yunnan, China. Image: HiNa Battery. A 200MW/400MWh BESS project in China combining lithium-ion and sodium-ion batteries has been put into operation. ...

Lithium-Ion Dominance & Cost Reduction - Li-ion batteries still lead, with a projected USD 140.51 billion market by 2033 and 13.3 GW expected to be deployed in the US ...

As the global energy transition accelerates, sodium-ion batteries are emerging as a rising star in energy storage

due to their low cost, high safety, and abundant resources. In 2025, sodium-ion ...

NAIMA project will develop and validate a new generation of Sodium-ion (Na-ion) based batteries to unseat the current Li-based technologies, nowadays controlled by Asian industry. This disruptive technology is already ...

European Market Outlook for Battery Storage 2025-2029 7 May 2025 The report explores trends and forecasts across residential, commercial & industrial (C& I), and utility ...

Web: https://www.reallifeconcepts.co.za