

Swedish sodium ion energy storage project

How many large-scale battery storage systems are there in Sweden?

14 large-scale battery storage systems (BESS) have come online in Sweden to deploy 211 MW /211 MWh into the region. Developer and optimiser Ingrid Capacity and energy storage owner-operator BW ESS have been working in partnership to deliver 14 large-scale BESS projects throughout Sweden's grid, situated in electricity price areas SE3 and SE4.

What is sodium ion technology?

The sodium-ion technology, which has been developed together with research partner Altris, is intended to provide the foundation for Northvolt's next-generation energy storage solutions.

Why is sodium ion a good choice for energy storage?

Peter Carlsson concludes: "Our sodium-ion technology delivers the performance required to enable energy storage with longer duration than alternative battery chemistries, at a lower cost, thereby opening new pathways to deploying renewable power generation.

What is Sweden's largest energy storage investment?

Sweden's largest energy storage investment, totaling 211 MW, goes live, combining 14 sites. 14 large-scale battery storage systems (BESS) have come online in Sweden to deploy 211 MW /211 MWh into the region.

Is a sodium ion battery a sustainable alternative?

The company says this makes it a more sustainable and cost-efficient alternative. In the USA, sodium-ion battery manufacturer Natron Energy and Clarios, a producer of low-voltage battery technologies for mobility, are collaborating on the production of the sodium-ion batteries.

What is a Northvolt sodium ion battery?

Stockholm, Sweden - Northvolt today announced a state-of-the-art sodium-ion battery, developed for the expansion of cost-efficient and sustainable energy storage systems worldwide.

Degree Project in Sustainable Energy Engineering ... Life cycle assessment on sodium-ion cells for energy storage systems A cradle-to-gate study including 16 environmental perspectives, focusing on climate change impact REBECCA NIBELIUS Stockholm, Sweden 2023 -2- -3- Abstract Because of the changing energy supply landscape, with the transition ...

The timing of Northvolt's innovation took the battery industry by surprise. According to Daniel Brandell, a materials chemist at Uppsala University in Sweden, technology roadmaps in North America and Europe had put this development closer to 2030 than prior to 2025.. While Chinese companies were first to use sodium to replace lithium in batteries, they often relied on ...

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Swedish sodium-ion battery developer Altris will partner with Stockholm-based energy storage developer Polarium to develop and demonstrate an energy storage solution based on sodium-ion batteries, the companies announced on Wednesday. Search. Alerts. Search. TOPICS. ... Swedish county backs Skyborn's 2.8 GW offshore wind project. Apr 2, 2025 ...

The Clean Energy Frontier is a series of deeply reported stories from reporters around the world shining a light on the supply chains which produce clean energy technologies, such as batteries, EVs, solar panels and wind turbines. ... Northvolt has developed a sodium-based battery, which doesn't require critical minerals and could help break ...

Stockholm, Sweden - Northvolt today announced a state-of-the-art sodium-ion battery, developed for the expansion of cost-efficient and sustainable energy storage systems worldwide. The cell has been validated for a best-in ...

The country has nearly 30 Sodium-ion Battery manufacturing plants, with its first large-scale Sodium-ion Battery energy storage station operational from May. Northvolt 's Sodium-ion Battery is the best performing battery of its type on the market with a capacity of 160 watt-hours per kilogramme (Wh/kg).

The first phase of Datang Group's 100 MW/200 MWh sodium-ion energy storage project in Qianjiang, Hubei Province, was connected to the grid. July 2, 2024 Marija Maisch.

With better resistance to high temperatures than lithium batteries, which are inherently flammable, sodium-ion batteries could help speed up electrification in regions ...

Meanwhile, Sweden-based Altris has received 77 million SEK (EUR6.8 million/US\$7.3 million) in grant funding from the state-led Swedish Energy Agency to build a pilot plant to produce sodium-ion battery cells. The funding is within the Industrial Leap (a Swedish programme) and NextGenerationEU (an EU programme).

The Clarios Meadowbrook facility in Michigan will produce up to 600MW a year of Natron's batteries. Image: Business Wire New sodium-ion battery production facilities have been announced in the US and Sweden by Natron Energy and Altris, respectively, with both set to start production in 2023. Sodium-ion battery producer Natron Energy has announced a strategic ...

Largest battery energy storage project in Sweden planned for H1 Gigafactory company Northvolt and sodium-ion battery technology firm Altris have together revealed a battery with an energy density of 160 Wh/kg, designed for energy storage systems. The firms revealed the battery's energy density today (21 November) following a research ...



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Europe's energy and electric vehicle sectors could lessen their reliance on China with the introduction of a groundbreaking Sodium-ion Battery by Swedish company Northvolt. ...

For now, the low cost of lithium undercuts sodium's chief selling point, Steingart says. Sodium-ion battery manufacturers also remain too small to benefit from economies of scale. In November 2024, such challenges upended one of the field's pioneers when the Swedish sodium-ion battery firm Northvolt filed for bankruptcy.

The power station is China's first 100 MWh-level sodium-ion energy storage project, marking the sodium-ion battery sector's entrance into a new commercialization stage. Sodium-ion batteries have a better running efficacy under lower temperatures, can keep a charge-discharge efficiency of 85 percent even at minus 20 degrees Celsius, and ensure a ...

The Swedish sodium-ion battery developer Altris is proud to announce a partnership with Polarium, a leading energy storage developer. The two companies will collaborate to ...

In Sweden, Altris, a developer of cathode material for sodium-ion batteries, wants to implement its manufacturing in the city of Sandviken, almost 200 kilometres north of Stockholm, in cooperation with Sandvik Materials ...

The Swedish sodium-ion battery developer Altris has successfully raised SEK 150 million in a Series B1 funding round, introducing new investors such as Clarios and Maersk Growth. ... has entered into an agreement with Volvo Cars to collaborate on product development to identify new potential battery energy storage systems. Published: April 15 ...

Fluor Corporation (NYSE: FLR) announced today that its Advanced Technologies Life Sciences business line has been selected by Altris AB to provide front-end engineering and design (FEED) services for the world's first industrial-scale sodium-ion battery production facility in Sandviken, Sweden. Fluor recognized the undisclosed contract value in the third quarter of 2023.

Altris acted as technology partner for embattled Swedish battery manufacturer Northvolt in the development of its first-generation sodium-ion battery cells. Northvolt's cell has been validated for an energy density of more ...

Swedish firms Altris and Polarium have announced a partnership to revolutionize the energy storage market with a sodium-ion battery cell offering higher energy density with abundant, non-toxic raw minerals. Get ready for an innovation that will shake-up the industry!

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Natural abundance of sodium and better fire safety features are the two main reasons many are pinning their hopes on sodium-ion as an alternative to lithium-ion, with the latter's supply chain shocks of 2021 and ...

The Swedish sodium-ion battery developer Altris presents a sodium-ion battery cell that has been validated for a best-in-class energy density of over 160 Wh/kg. This makes Altris' battery cell commercially viable for applications such as cost-efficient and sustainable energy storage systems. The achievement marks an important milestone for ...

Swedish start-up Northvolt announced on Tuesday a breakthrough in its sodium-ion battery technology, developed for use in energy storage systems. The battery does not involve the ...

As the demand for energy storage increases across applications, we see the potential for this technology to address critical needs." The project has been supported by the US Department of Energy's ARPA-E agency through ...

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