

SolarGrid Energy Solutions

Swedish sodium ion energy storage project



Overview

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. 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.

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 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.

How much energy does a sodium ion battery use?

Northvolt said on Tuesday that it had now validated a sodium-ion battery at the critical level of 160 watt hours per kilogramme, an energy density close to that of the type of lithium batteries typically used in energy storage.

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.

Swedish sodium ion energy storage project



Swedish battery energy storage technology research and ...

Batteries enable the phasing out of fossil fuels and increase flexibility in the electricity system through energy storage. The Swedish battery industry is at the forefront. Sweden also has ...

Sodium-ion batteries progress in Sweden and the USA

2023-04-27 Anticipated reading needs 8 minute Sodium-ion batteries are moving forward. In Sweden, Altris has announced its first industrial-scale cathode material production facility. ...



Chinese lithium-ion anode producer halts \$1.4 ...

Jan 8, 2025 · Putailai New Energy Technology Co., Ltd. (PTL), a Shanghai-based producer of anode materials for lithium-ion batteries, has scrapped its plans to ...

Northvolt develops state-of-the-art sodium-ion ...

Aug 7, 2025 · Northvolt is proud to add sodium-ion to its cell chemistry portfolio, enabling safe, low-cost, sustainable power for energy storage systems.



Swedish battery energy storage power station

Swedish battery storage trading and optimization company Flower is rapidly growing its project fleet, now acquiring one of the nation's largest sites. The project is a ready-to-build 40 MW/80 ...

Energy storage for grid support and priming of renewable energy

This project aims to study grid support and priming of renewable energy power production units through the usage of a novel environmental-friendly sodium-based battery storage, a Na-ion ...



Altris 2.0

Dec 6, 2023 · The Swedish sodium-ion battery developer Altris is proud to announce a partnership with Polarium, a leading energy storage developer. The two companies will ...



Northvolt develops state-of-the-art sodium-ion ...

Aug 7, 2025 · Stockholm, Sweden - Northvolt today announced a state-of-the-art sodium-ion battery, developed for the expansion of cost-efficient and ...



SWEDISH HIGH PERFORMANCE ENERGY STORAGE ...

How many large-scale battery storage systems are there in Sweden? 14large-scale battery storage systems (BESS) have come online in Sweden to deploy 211 MW /211 MWh into the ...

Clarios, Maersk invest in sodium-ion battery ...

Oct 10, 2024 · Swedish sodium-ion battery developer Altris on Wednesday said it has completed a SEK-150-million (USD 14.5m/EUR 13.2m) Series B1

funding ...

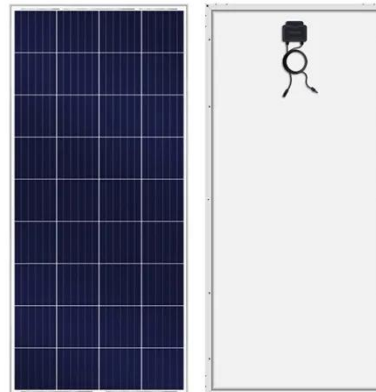


Volvo joints investors in sodium ion tech firm Altris

April 3, 2025: Volvo's venture capital arm has become a key investor in Swedish sodium ion battery developer Altris, the firms announced on March 26. The undisclosed investment by ...

Broad collaboration around batteries for Sweden's green ...

Jun 11, 2024 · The researchers at Batteries Sweden (BASE), the national competence centre in this area, are working on the development of new types of lightweight, inexpensive, ...



Northvolt's Vision for a Greener Europe with Sodium Batteries

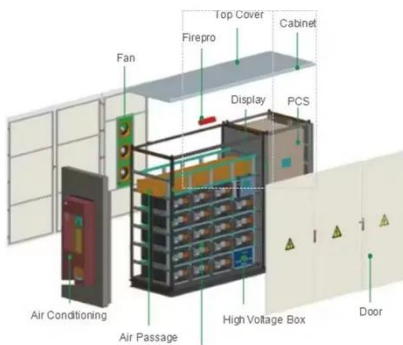
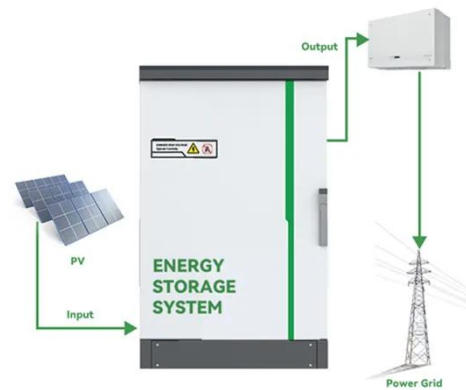
Jul 2, 2024 · The country has nearly 30 Sodium-ion Battery manufacturing plants, with its first large-scale Sodium-ion Battery energy storage station

operational from May. Northvolt 's ...



World's Largest Sodium-ion Battery Energy ...

Jul 1, 2024 · The energy storage project includes 42 energy storage warehouses and 21 machines integrating energy boosters and converters, using large ...



Belgium sodium ion battery energy storage

Is totalenergies developing a second battery storage project in Belgium? Antwerp, April 3, 2024 - On the occasion of Belgian Energy Minister Tinne Van der Straeten's visit to TotalEnergies' ...

Swedish energy storage power station goes into operation

new batteries begin to gain wider use in energy storage. State-owned power company China Datang Corporation put a 100-MWh energy storage station using

sodium-ion batteries into o



'World's largest' sodium-ion battery energy ...

Jul 2, 2024 · This is currently the world's largest sodium-ion battery energy storage project and marks a new stage in the commercial operation of sodium ...

Sweden's Innovative Sodium-Ion Battery: A Step ...

Nov 21, 2023 · Discover Sweden's sodium-ion battery by Northvolt, a sustainable innovation reducing reliance on imported materials for energy independence.



Altris secures funding to grow Europe's sodium ...

Oct 11, 2024 · Altris acted as technology partner for embattled Swedish battery manufacturer Northvolt in the development of its first-generation

sodium-ion ...



LFP12V100

The first phase of the world's largest sodium-ion battery energy storage system (BESS), in China, has come online. The first 50MW/100MWh portion of the project in Qianjiang, Hubei province ...



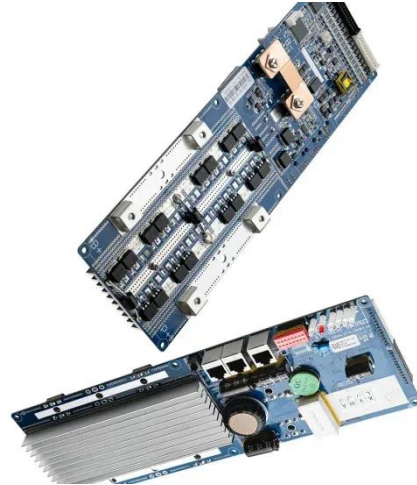
Sodium-ion 50MW/100MWh project to be built ...

Jan 29, 2024 · A large battery energy storage system (BESS) project in Hubei, China, using sodium-ion technology, is set to be completed this year.

Swedish Energy Storage Battery Container Project

Container energy storage, also commonly referred to as containerized energy storage or container battery storage, is an innovative solution

designed to address the increasing ...



Altris

4 days ago · 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 ...

Altris 2.0

Jan 8, 2024 · The Swedish sodium-ion battery developer Altris has today announced that Volvo Cars Tech Fund, the venture capital arm of Volvo Cars, is one of the strategic investors in ...



Swedish energy storage 2025

With lead times of 1-2 years from project start to finalization, energy storage is also a fast way to strengthen the system. "Our historic expansion already fundamentally changes the Swedish ...



Ingrid Capacity and Locus Energy: 196 MW of energy storage in Sweden

Sep 3, 2024 · Please share: Ingrid Capacity has teamed up with Locus Energy, a SEB Nordic Energy portfolio company, to deploy 196 MW of battery storage systems in southern Sweden. ...



Sweden switches on largest battery energy storage system ...

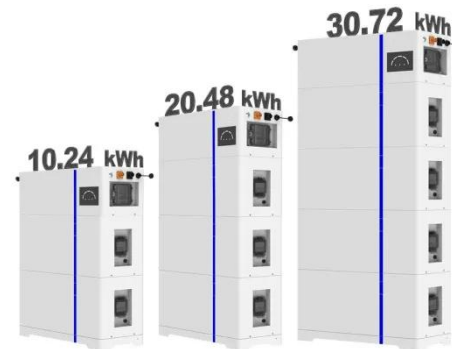
Oct 14, 2024 · 14 large-scale battery storage systems (BESS) have come online in Sweden to deploy 211 MW / 211 MWh into the region. Developer and optimiser Ingrid Capacity and ...

Top 10 energy storage companies in Sweden

Aug 18, 2025 · Company profile: Northvolt, as one of the top 10 energy storage companies in Sweden, founded

in 2015 by former Tesla executives, is a ...

ESS



SWEDISH SODIUM ION BATTERY BREAKTHROUGH COULD ...

Are sodium-ion batteries a promising choice for energy storage? Recent Progress and Prospects on Sodium-Ion Battery and All-Solid-State Sodium Battery: A Promising Choice of Future ...

Swedish energy storage battery technology

It said its first generation of sodium-ion battery cells could achieve energy densities of up to 160Wh/kg and promised an increase to 200 Wh/kg for the next generation. Earlier this year, it ...



Swedish lithium battery energy storage company

Swedish company Northvolt, founded in 2015 by two former Tesla execs, says its new sodium-ion battery doesn't use the critical minerals lithium, nickel, graphite,



and cobalt--and it has an ...

China switches on first large-scale sodium-ion ...

May 15, 2024 · China Southern Power Grid Energy Storage, the energy storage division of China Southern Power Grid, has commissioned a 10 MWh sodium ...



Sodium-ion tech firms Tiamat and Altris bag ...

Jan 18, 2024 · Altris is based in Sweden and has developed a proprietary sodium-ion battery technology. Image: Altris AB. Europe-based sodium-ion battery ...

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