

160 kWh battery component

160 kWh battery component

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.

Comprised of fifteen precision-crafted battery units, each encapsulating a substantial 10.75 kWh energy capacity, the ESS assembles into a commanding total storage capability of 160 kWh. Constructed with 105Ah LiFePO4 cells, intricately arranged in a 2 parallel and 16 serial configuration, each unit maintains a precise nominal voltage of 51.2V.

Swedish battery maker Northvolt has developed its first sodium-ion battery. The cell has been validated for an energy density of more than 160 Wh/kg and is designed for energy storage applications.

What is grid-scale battery storage? Battery storage is a technology that enables power system operators and utilities to store energy for later use. A battery energy storage system (BESS) is an electrochemical device that charges (or collects energy) from the grid or a power plant and then discharges that energy at a later time

Now CATL says its research has paid off with a new sodium-ion battery with an energy density of 160 Wh/kg. The company says it expects to boost that to 200 Wh/kg by the time large-scale...

Swedish battery maker Northvolt has developed its first sodium-ion battery in partnership with Uppsala University spinoff Altris. The cell has been validated for an energy density of more than 160 Wh/kg and is designed primarily for energy storage applications.

Northvolt, Europe's battery manufacturing torchbearer, has announced the development of its first-generation sodium-ion battery cells. They are designed to provide the foundation for the company's next-generation energy storage solutions, with subsequent generations to deliver higher energy density, opening opportunities to enable cost-efficient electric mobility solutions.

Its sodium-ion technology has been validated at more than 160 Wh/kg at its R&D and industrialization campus, Northvolt Labs, in V?ster?s, Sweden. This level of performance makes the technology competitive with today's dominant energy storage chemistry - lithium iron phosphate (LFP) batteries.

“Thanks to the global abundance of ingoing materials as well as the robustness and sustainability of the sodium-ion technology, Northvolt sees sodium-ion technology as a key part of the company's product portfolio in the long term,” Wilhelm L?wenhielm, Northvolt senior director of business development ESS, told pv magazine. “With its first-generation sodium-ion product, Northvolt will bring to market a solution at scale that is competitive with LFP solutions. Over time, the technology is expected to surpass LFP significantly in terms of cost-competitiveness.”

160 kWh battery component

According to L?wenhielm, Northvolt aims to address the energy storage market with a complete plug & play battery solution to allow for fast market entry and scale-up.

“Key activities for bringing this particular technology to market is scaling the supply chain for battery grade materials, which Northvolt is currently doing together with key partners,” he said.

So far, the company has revealed few details about the technology"s performance.

Contact us for free full report

Web: <https://kary.com.pl/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

