

# Sodium energy storage power station in vietnam



## Overview

This is the world's largest sodium-ion battery project. The power plant will store up to 100 MWh of electricity on a single charge once fully operational. The original PDP8 approved in 2023 had set out a target of 300MW of BESS capacity by 2030. Cui Yongle, project director, said sodium-ion batteries have better performance even at low temperatures, can maintain a charge-discharge efficiency of 85% even at minus 20 degrees Celsius and ensures 1. 500. Việt Nam plans to develop large-scale energy storage systems as part of its strategy to stabilise its fast-growing renewable power grid and meet its net-zero emissions target by 2050, officials said at a forum in HCM City on Friday. —. A sodium-ion battery works much like a lithium-ion one: It stores and releases energy by shuttling ions between two electrodes. But unlike lithium, a somewhat rare element that is currently mined in only a handful of countries, sodium is cheap and found everywhere. Transmission lines lack the capacity to carry all that power to where it needs to be. To avoid putting extra pressure on an already overloaded energy grid, state-run Vietnam Electricity (EVN) has advised solar farms in. It acknowledges the criticality of developing a sustainable, cost-effective, and resource-efficient energy storage solution that aligns with the country's growth trajectory.



## Article Content

Việt Nam eyes large-scale energy storage to stabilise renewable ...

New storage technologies, including lithium-ion, sodium-sulphur, hydrogen, and gravity-based systems, are being studied for potential deployment. Domestic manufacturers are also ...

Vietnam's Emerging Battery Energy Storage (BESS) Market: Growth ...

These factors create favorable conditions for the initiation and scaling of Vietnam's domestic electrochemical energy storage market. Against this background, this article examines the ...

Benefits of Energy Storage Power Stations in Ho Chi Minh City, Vietnam

As Ho Chi Minh City rapidly urbanizes, energy storage power stations are emerging as a critical solution to stabilize the grid, integrate renewable energy, and support sustainable growth.

The world's largest sodium-ion battery system, powering 12.000 ...

The power plant will store up to 100 MWh of electricity on a single charge once fully operational. The plant will then generate electricity during peak hours to the grid to serve the daily ...

Many challenges exist in building an energy storage market in Vietnam.

Vietnam is accelerating its plan to build one of the largest energy storage battery markets in Southeast Asia. While some progress has been made, the market remains in its infancy, with most ...

Sodium-ion batteries: 10 Breakthrough Technologies 2026

Storing clean energy generated by solar and wind has long been a challenge. Sodium-ion batteries, with their low cost, enhanced thermal stability, and long cycle life, are an attractive alternative.

Vietnam bidding to power a regional battery storage revolution

To avoid putting extra pressure on an already overloaded energy grid, state-run Vietnam Electricity (EVN) has advised solar farms in central Vietnam to reduce their output by up to 70% this ...

Prospects Of Energy Storage Applications In Vietnam

The paper reviews the energy storage technologies in the world, their applications and prospects of their applications in Vietnam. Some characteristics of Vietnam's power system are discussed, especially ...

Development of Battery Energy Storage Systems in Vietnam

Vietnam began implementing BESS systems from 2019. However, due to the lack of a complete set of policies and regulations for BESS development, most BESS systems in Vietnam are after-the-meter ...

### The Future of Energy Storage in Vietnam: A Fuzzy Multi-Criteria

The primary objective is to evaluate the suitability of emerging metal-ion batteries—specifically sodium-ion (SIB), sodium-ion saltwater (SIB-S), magnesium-ion (MIB), and ...

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