

## SolarTech Power Solutions

# Lithium batteries for Vietnam s wind power generation system



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✓ OUTDOOR ENERGY STORAGE  
CABINET

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## Overview

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Why should Vietnam invest in a lithium battery?

The declining cost of lithium battery cells, coupled with technological advancements, has made BESS increasingly affordable and accessible, according to Contemporary Amperex Technology, the world's largest battery manufacturer. Vietnam should capitalise on this trend to attract investment, create green jobs, and enhance energy security.

How many solar power plants are there in Vietnam?

From 2019 onwards, the government enacted the renewable energy development mechanisms, thus, solar and wind power sources have developed significantly. By 2022, Vietnam's power system had over 16 GW of solar power (including rooftop solar power) and 5 GW conventional of wind power. The power plants had a total installed capacity of about 59.

What are Vietnam's power sources?

Before 2019, Vietnam's power sources were mostly traditional plants, such as coal-fired, gas-fired, and hydropower plants. From 2019 onwards, the government enacted the renewable energy development mechanisms, thus, solar and wind power sources have developed significantly.

How much power will Vietnam have by 2030?

The plan also called for 300MW of battery storage deployment and 2,400MW of pumped hydro energy storage (PHES) by 2030. State-owned public power company Vietnam Electricity (VE), is participating in a 50MW/50MWh grid-scale BESS pilot project which marks a first step towards that BESS goal.

How much energy does Vietnam have in 2022?

As presented in Section 1.1.2, by the end of 2022, the total installed capacity in Vietnam reached 80.7 GW. In which, renewable energy sources reached nearly 14 GW (about 27%). If all generating units in the system are

considered, the total inertia of Vietnam's power system in 2022 is about 1.785s.

Will Chinese battery manufacturer sunwoda invest \$300 million in Bac Giang?

Chinese battery manufacturer Sunwoda plans to make an additional \$300 million investment in the northern province of Bac Giang. As renewable energy becomes a cornerstone of Vietnam's climate and development strategies, the need to meet the country's rapidly growing power demand becomes more urgent.

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