# Sodium-sulfur battery large-scale energy storage

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Are rechargeable room-temperature sodium-sulfur (na-S) batteries suitable for large-scale energy storage?
Rechargeable room-temperature sodium-sulfur (Na-S) and sodium-selenium (Na-Se) batteries are gaining extensive attention for potential large-scale energy storage applicationsowing to their low cost and high theoretical energy density.

Which battery energy storage system uses sodium sulfur vs flow batteries?
The analysis has shown that the largest battery energy storage systemsuse sodium-sulfur batteries,whereas the flow batteries and especially the vanadium redox flow batteries are used for smaller battery energy storage systems.

What are the different types of batteries used for large scale energy storage?
In this section,the characteristics of the various types of batteries used for large scale energy storage,such as the lead-acid,lithium-ion,nickel-cadmium,sodium-sulfur and flow batteries,as well as their applications,are discussed. 2.1. Lead-acid batteries

What is a sodium sulfur battery?
The as-developed sodium-sulfur batteries deliver high capacity and long cycling stability. To date, batteries based on alkali metal-ion intercalating cathode and anode materials, such as lithium-ion batteries, have been widely used in modern society from portable electronics to electric vehicles 1.

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