

# **Which market is selling batteries in large containers**





## Overview

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Which energy storage system has the most battery capacity in Australia?

Despite the massive year for grid-scale storage, home energy storage systems remain the largest cumulative source of battery capacity in Australia. A record 57,000 residential battery energy storage systems, with a combined capacity of 656 MWh, were installed in Australian homes in 2023, up 21% on the previous year.

What is a large-scale battery storage system?

Large-scale installations, known as grid-scale or large-scale battery storage, can function as significant power sources within the energy network. Smaller batteries can be used in homes for backup power or can be coordinated in a system called a Virtual Power Plant (VPP). VPPs are being actively trialled. The current climate.

Why is battery storage so important in Australia?

The rise of battery storage capacity in Australia represents a pivotal shift in the energy landscape as batteries offer an increasingly cost-effective means to address the variability of renewable energy and ensure grid stability.

Why are battery energy storage systems (BESS) costs falling?

A growing industry trend towards larger battery cell sizes and higher energy density containers is contributing significantly to falling battery energy storage system (BESS) costs.

Why are energy companies investing in battery infrastructure?

Like governments, energy companies are also investing in battery infrastructure, to help strengthen Australia's energy grid. Earlier this year, Synergy began construction on Australia's second-largest battery project to date, the 500MW Collie Battery Energy Storage System (CBESS) in Western Australia [ii].



How many large-sale battery projects are energised in 2023?

Johnston said there were eight large-sale battery projects over 100 MWh energised in 2023, four of which were in excess of 200 MWh capacity, and he expects the sector to deliver another record high in 2024. “The capacity currently under construction is six times the amount at the same point last year,” he said.



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Some of the biggest barriers to entering the market for large-scale batteries include getting access to sites to build and, crucially, rights to connect to the grid.

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Large-scale batteries typically consist of several components - a battery unit or 'enclosure' (generally a large box like a shipping container), an inverter, and a transformer that can either ...

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