

## SolarTech Power Solutions

# What are the conditions for joining the Sydney Energy Storage Project in Australia



## Overview

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How is energy stored in Australia?

Currently storage of electrical energy in Australia consists of a small number of pumped hydroelectric facilities and grid-scale batteries, and a diversity of battery storage systems at small scale, used mainly for backup. To balance energy use across the Australian economy, heat and fuel (chemical energy) storage are also required.

Does Australia have a competitive advantage in energy storage systems?

Many stakeholders suggested that Australia has greater competitive advantages and potential for manufacturing success in the hardware and software systems that will be required for smart management and integration of energy storage systems.

Which energy storage options are a good option for the future?

Pumped Hydro Energy Storage (PHES), Compressed Air Energy Storage System (CAES), and green hydrogen (via fuel cells, and fast response hydrogen-fueled gas peaking turbines) will be options for medium to long-term storage. Batteries and SCs are assessed as a prudent option for the immediate net zero targets for 2030–2050.

Which energy storage technology is best for Australia's energy needs?

The CEC said emerging LDES technologies coupled with the energy storage systems in place, would be the best suite to appropriately manage Australia's needs. In March this year, the ARENA held an Insights Forum which covered energy storage and technologies that can bring system security to the grid.

Can Australia meet its energy storage needs on the road to net zero?

They are all examples of the pivotal innovation required to ensure Australia can meet its energy storage needs on the road to net zero. Long-Duration Energy Storage (LDES) is proving to be an important technology for Australia's

net zero ambitions.

Can Australia be a leader in energy storage?

Australia has the potential to be at the forefront of deployment of energy storage technologies. High penetration of rooftop solar systems coupled with high energy prices by international standards mean the appetite for distributed storage is large.

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