

Experts say Australia could be powered entirely by renewable energy as soon as 2030, thanks to rapid industry growth. While this is a positive development, it brings new challenges: ...

As Australia's national science agency, CSIRO has turned its decades of expertise in energy to answer this challenge through this Renewable Energy Storage Roadmap. We delivered our first net zero ...

This section explores the key challenges affecting the cost, security and reliability of energy supply in Australia and how long duration energy storage is well placed to meet these challenges.

Australia's solar and energy storage sectors delivered strong performance during the third quarter of 2025, with grid-scale solar generation reaching 1,699MW average output while...

Modern energy storage encompasses far more than traditional batteries. It includes thermal storage systems that capture heat in molten salt, kinetic solutions that store energy in ...

A report from the Clean Energy Council (CEC) released in June 2024, titled The Future of Long Duration Energy Storage, noted that lithium-ion batteries (LIB) and pumped hydrogen energy ...

The paper reviews energy storage technologies and their applicability to the Australian National Electricity Market (NEM). The increasing dynamic variability between maximum and ...

Plans to build a 100 MW solar farm and 45 MW, two-hour capacity battery energy storage system in the Yass Valley have been given fresh impetus with a New South Wales court dismissing ...

Reversible endothermic chemical reactions driven by solar heat to Store energy over short or long time scales "Solar Fuels" are the special case where the endothermic reaction releases oxygen that can ...

UNSW is striving towards 1,000GWh of beneficial energy storage in Australia by 2050. We believe this level of storage will underpin a healthy society by promoting a resilient and sustainable energy system.



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