Australia energy storage

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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...

Australia"s current storage capacity is 3GW, this is inclusive of batteries, VPPs and pumped hydro. Current forecasts by AEMO show Australia will need at least 22GW by 2030 - a more than 700 per cent increase 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 storage (PHES) are currently...

Our Renewable Energy Storage Roadmap highlights the need to rapidly scale up a diverse portfolio of storage technologies to keep pace with rising demand and realise opportunities across our evolving energy system.
As Australia transitions to net zero, renewable energy storage is critical to ensure a secure, sustainable and affordable electricity supply.

The report responds to common challenges around decarbonisation and technology readiness, examining the role of storage for seven sectors, and outlining the strengths and weaknesses of specific technology options.

Renewable storage technologies have the potential to revolutionise clean and reliable energy access in remote communities, support cost-effective decarbonisation in industry and transform Australia into a green hydrogen export superpower.

Developed in consultation with government and over 50 industry organisations, the Renewable Energy Storage Roadmap aims to ignite meaningful discussion on energy storage, address uncertainties around net zero pathways and provide decision-makers with the tools to make informed decisions.

CSIRO acknowledges the Traditional Owners of the land, sea and waters, of the area that we live and work on across Australia. We acknowledge their continuing connection to their culture and pay our respects to their Elders past and present. View our vision towards reconciliation.

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Australia is working towards a national energy market (NEM) that sources its electricity from clean, renewable energy instead of emission-heavy processes that have dominated for decades. It"s a tectonic shift – one that requires extensive thought, effort and time.

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It"s not just a matter of plugging in a couple of solar panels and moving forward, it"s a monumental leap in changing how we generate clean energy and distribute it within the consumer, industry and transport spaces. This means Australia will need to undergo massive infrastructural changes to reach our decarbonisation goals by 2050.

We need the right technology to store enough renewable energy to meet our NEM needs, so we don"t have to default to fossil fuel electricity production to fill the gap. A potential solution to this problem is long duration energy storage (LDES).

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