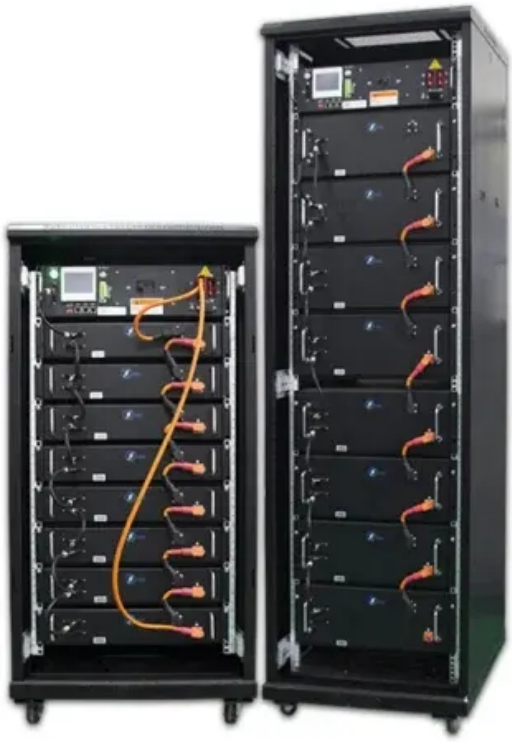
VDB Solar Solutions

Expected ROI of NMC battery storage project in Australia 2025



Overview

Will Australia's NEM see a massive increase in battery energy storage capacity?

Australia’s NEM will see a massive increase in grid-scale battery energy storage capacity in the next three years. There are 16.8 GW of battery projects that could come online in the National Electricity Market (NEM) by the end of 2027.

Why is battery storage a good investment in Australia?

However, the report finds that high daily price volatility in power markets makes battery investments appealing even without government guarantees. “Battery storage will be crucial in Australia’s energy transition, influenced by the growth of renewable energy and market volatility.

How much is battery storage worth in Australia?

Credit: Phonlamai Photo / Shutterstock. The first quarter (Q1) of 2025 has seen a surge in investment for large-scale battery storage in Australia, with six projects worth a total of A$2.4bn ($1.5bn) reaching the financial commitment stage, according to the latest Clean Energy Australia Report 2025.

How many battery storage projects are being built in Q1 2025?

Stay proactive with real-time data and expert analysis. Moreover, three more battery storage projects began construction in Q1 2025, adding 840MW/2.9GWh in capacity and energy output.

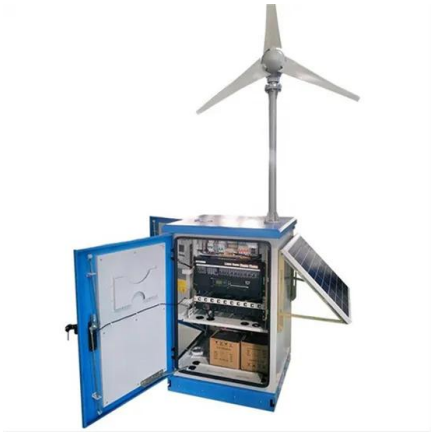
Will a new battery buildout increase battery capacity in Australia?

Even so, this buildout would result in a sevenfold increase in operational battery capacity over the next three years. Australia has a massive pipeline of grid-scale battery energy storage projects. 16.5 GW of new battery projects could arrive in the NEM in the next 3 years.

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].

Expected ROI of NMC battery storage project in Australia 2025

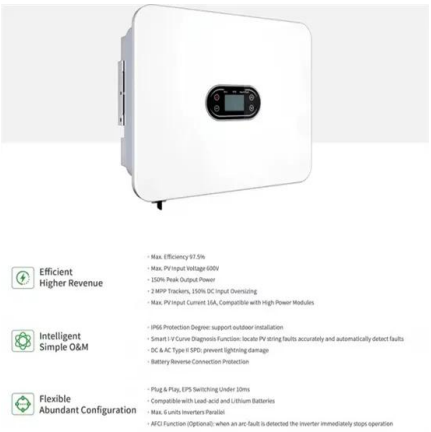


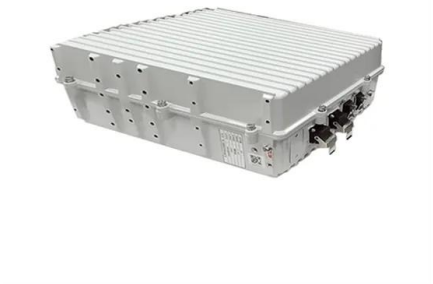
Li-ion Battery Economics: Price Trends and ROI Calculation

In an era where energy storage solutions are pivotal to technological advancement, understanding the economics of lithium-ion batteries is crucial. This ...

Big battery boom could deliver 18 GW of grid-scale ...

A new report has predicted that Australia is on the cusp of a big battery boom that could deliver 18 gigawatts (GW) of installed energy storage capacity by 2035 - an eight-fold increase on the 2



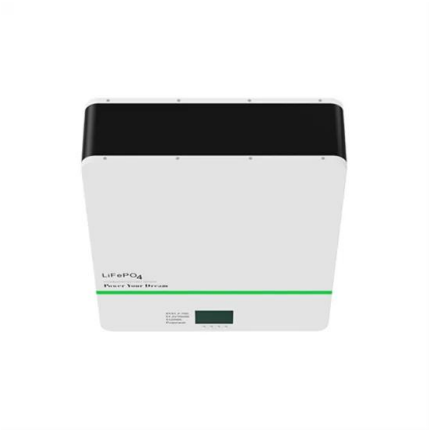


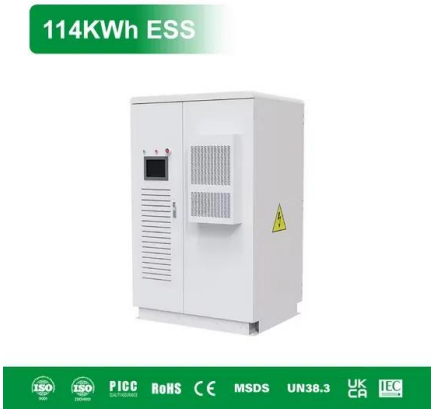
2025 Predictions for the Energy Storage Sector ...

Energy storage deployment across North America broke records in 2024, driven by falling battery prices, increased system efficiencies, and growing market opportunities. Globally, energy storage deployment increased ...

Utility-Scale Battery Storage , Electricity , 2022 , ATB

The 2022 ATB represents cost and performance for battery storage across a range of durations (2-10 hours). It represents lithium-ion batteries (LIBs)--focused primarily on nickel manganese cobalt (NMC) and lithium iron ...



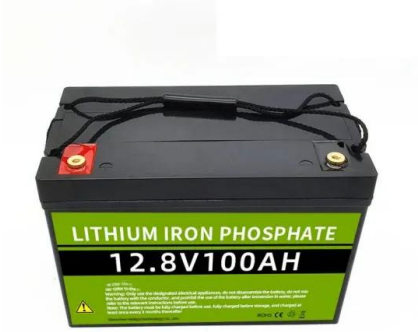


Solar Power Return on Investment: What Is the ROI on Solar ...

That's why people who calculate solar power return on investment carefully often find solar to out-return traditional investments in terms of both stability and predictability. Factors Affecting Solar ...

Large-scale battery storage investment in Australia reached ...

The first quarter (Q1) of 2025 has seen a surge in investment for large-scale battery storage in Australia, with six projects worth a total of A$2.4bn ($1.5bn) reaching the ...



Big battery boom could deliver 18 GW of grid-scale energy storage ...

A new report has predicted that Australia is on the cusp of a big battery boom that could deliver 18 gigawatts (GW) of installed energy storage capacity by 2035 - an eight-fold increase on the 2

Global Energy Storage to Hit 94 GW in 2025, Says BNEF

The global energy storage sector is on track for another record year in 2025 as utility-scale projects expand into new regions. BloombergNEF (BNEF) forecasts that ...

[Battery Energy Storage Roadmap]

This EPRI Battery Energy Storage Roadmap charts a path for advancing deployment of safe, reliable, affordable, and clean battery energy storage systems (BESS) that also cultivate equity, innovation, and workforce ...

Australia has 7.8 GW of utility-scale batteries under construction

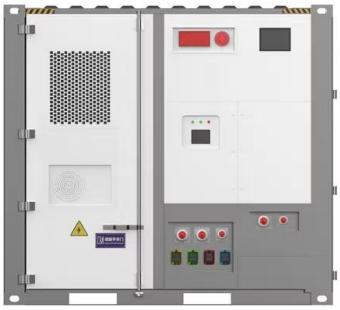
The volume of large-scale battery energy storage projects under construction in Australia passed that of solar and wind projects combined in 2023 and the trend has intensified ...

IEA: Global battery industry has entered new phase

The battery industry is entering a new phase of development, the International Energy Agency (IEA) has said, with the global market expanding and technology gradually ...

[Battery Market Report - Australia 2025]

Stay ahead of the curve with SunWiz's authoritative Australian Battery Market Report 2025. With our 16 years of industry leadership, we provide the most comprehensive ...

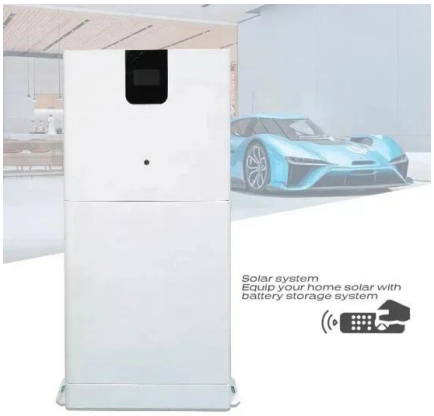


IEA: Global battery industry has entered new phase

The battery industry is entering a new phase of development, the International Energy Agency (IEA) has said, with the global market expanding and technology gradually standardising. This will likely result in further ...

Top five energy storage projects in Australia

Global energy storage capacity was estimated to have reached 36,735MW by the end of 2022 and is forecasted to grow to 353,880MW by 2030. Australia had 2,325MW of ...

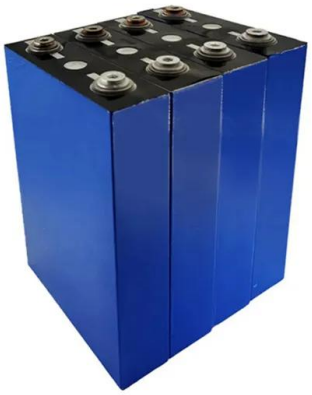


Storing renewable energy: battery storage , nzea

The battery will have the ability to charge and discharge 20% of the average demand placed on Western Australia's transmission network. Synergy's Collie Battery Energy Storage System will ...

Q2 2025 NEM Buildout Report: Record deployment of battery ...

As the system transitions away from coal and the demand for energy storage increases, the delivery of battery energy storage systems will be critical to maintaining system reliability and ...



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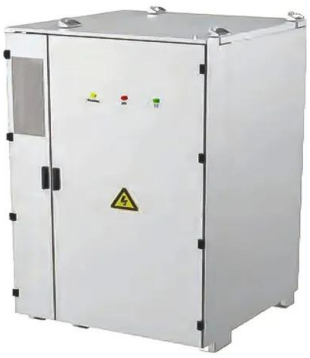
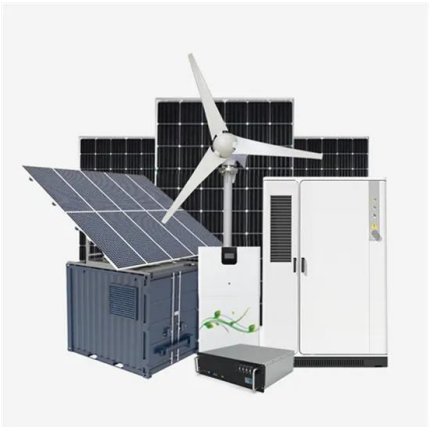
That's why people who calculate solar power return on investment carefully often find solar to out-return traditional investments in terms of both stability and predictability. ...

Australia's 2025 Battery Boom: Powering the Renewable Energy ...

In 2025, Australia is accelerating its shift to renewable energy by expanding large-scale battery storage projects nationwide. Discover how this battery boom is transforming the energy sector ...



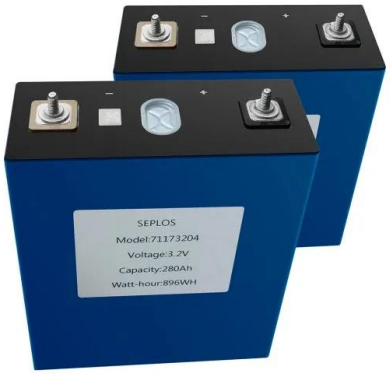


North America NMC Battery Energy Storage System (BESS) Market

Future Outlook The North American NMC BESS market is projected to scale impressively over the next decade, driven by clean energy mandates, grid modernization, and commercial ...

Battery energy storage in Australia's net-zero transition

Australia is witnessing a rapid surge in large-scale BESS projects. The number of new installations is expected to grow to match the expansion of large-scale VRE assets in ...

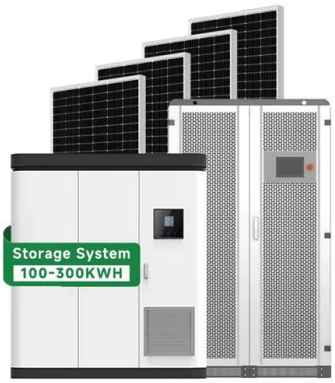


Insights

The global energy storage market is poised to hit new heights yet again in 2025. Despite policy changes and uncertainty in the world's two largest markets, the US and China, the sector continues to grow as developers push forward with ...

[Big battery investment charges up in Q1 2025]

The first quarter of 2025 was the second best on record for investment in large-scale Battery Energy Storage Systems (BESS) in Australia, with six projects worth $2.4 billion in total reaching the financial commitment ...

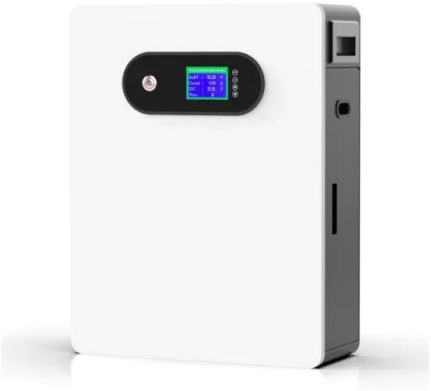


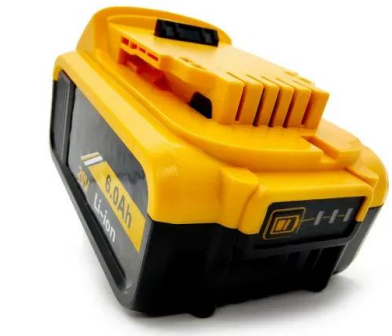
CAISO: The state of grid-scale battery energy storage ...

Which major battery projects are currently in testing and expected to reach commercial operation in 2025. How CAISO's Resource Adequacy market is shaping battery investment and financing decisions. To get full access to Modo ...

LFP vs NMC: Which is Better for Stationary Battery Energy Storage

Discover the key differences between LFP and NMC lithium-ion batteries in stationary energy storage systems. Learn which chemistry offers better safety, lifecycle value, ...



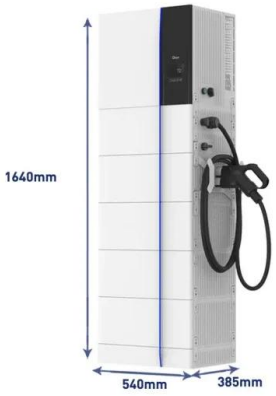


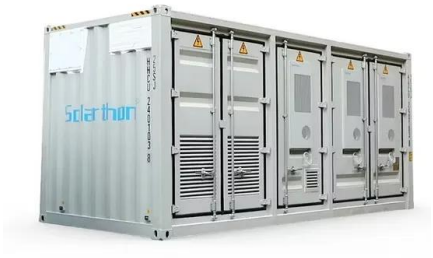
Volta's 2024 Battery Report: Falling costs drive battery ...

Scale of battery installations are rising too with average project duration lifting. The increase has been 33% from an average of 1.8 hours duration in 2020 to 2.4 in 2024, driven by factors including falling costs, as well the shift ...

Battery cost forecasting: a review of methods and ...

However, battery costs have fallen fast during the last years and an accurate prediction of their future development is vital for profound research in academia and sustainable decisions in industry. This article outlines the most ...



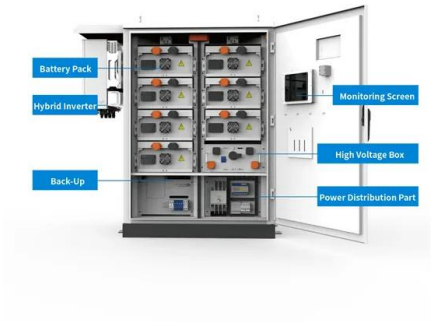


Batteries lead charge in record breaking quarter for ...

The number of new clean energy and grid firming projects coming on line in the first quarter of 2025 has been the largest to date, according to the Australian Energy Market Operator's National Electricity Market ...

Battery Report 2024: BESS surging in the "Decade of ...

In this second instalment of our series analysing the Volta Foundation 2024 Battery Report, we explore the continued rise of Battery Energy Storage Systems (BESS).



LFP vs NMC Batteries: Future of Energy Storage

The Thermal Runaway Dilemma In 2024 alone, there've been 23 reported cases of battery fires in US grid-scale storage facilities. NMC batteries, while energy-dense, require complex thermal ...

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