

## SolarMax Energy Systems

# New Zealand energy storage battery cost performance



## Overview

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How much does a solar battery cost in New Zealand?

The lowest price paid was \$8,000 for a 6 kWh battery, which implies that smaller systems can be more accessible for those on a budget. The best value was \$9,000 for a 9.6 kWh battery, equating to \$937.50 per kWh. Indicating the batteries below \$1000/kWh can be hunted down in the NZ market. What's Next for Solar Prices in 2025?

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Can batteries be used in New Zealand?

n cost of system.CASE STUDIESWe researched the applications where batteries could be used in New Zealand, and the additional services they might realistically provide. Of all potential options, we have fully developed the five most useful (and economically promising) as case studies, using the revenue and cost assumptions ou.

Can battery technology save energy in New Zealand?

transferring and using energy. In New Zealand, our hydro lakes store energy on a large scale. However, until now we have had limited options to store electricity cost-effectively close to where it is used.Around the world, battery technology now offers opportunities to store electricity economically.

How much tax does a battery cost in New Zealand?

ed to pre-tax at 28% tax rate.<sup>12</sup> Residential battery cost of capital 5% - no tax applicable to residential income, however n cost of system.CASE STUDIESWe researched the applications where batteries could be used in New Zealand, and the additional services th.

Why should New Zealand invest in grid-scale batteries?

Additionally, these batteries, alongside more renewable generation, will help

off-set the retirement of thermal generation and support New Zealand's transition to a low-emissions economy. The first grid-scale battery was commissioned in 2023 by Hamilton lines company WEL Networks.

What is a battery energy storage system (BESS)?

Over recent years, it has become common for utility-scale solar projects in Australia to include a grid-scale battery energy storage system (BESS) to provide energy generated by the solar farm to the grid outside of the times when the sun is shining.

## New Zealand energy storage battery cost performance

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### Towards a just and sustainable energy transition in Aotearoa New

Aotearoa New Zealand's approach to energy governance to date is fairly unique, in that investments in power generation are market-driven, largely financed from the balance ...

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## BATTERY STORAGE IN NEW ZEALAND

We considered hosting our own trial of grid-connected battery storage, but first we chose to investigate the benefits of battery storage across the electricity supply chain. We did this by ...



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- ☒ LIQUID/AIR COOLING
- ☒ INTELLIGENT INTEGRATION
- ☒ PROTECTION IP54/IP55
- ☒ BATTERY /6000 CYCLES



### Unlocking the potential for batteries to contribute to ...

The battery charges when intermittent renewable generation (like wind or solar) is high and demand is low, which usually results in low spot ...

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## Are Home Batteries Worth It in New Zealand? Costs, Savings

In this blog, we'll break down what New Zealanders need to know about home batteries in 2025, including up-to-date pricing, real-life savings, and when the payback really makes sense.

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### New Zealand's 'first grid-scale battery

Infratec general manager Nick Bibby said that the storage system is "the first of its scale to be built in New Zealand". As reported by Energy-Storage.news, the two companies ...

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## NZ Battery

While there are other benefits that accrue from NZ Battery, avoiding the cost of shortage resulting from dry years is the key driver for the NZ Battery project. The cost of outage: Influenced by ...

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### New Zealand Energy Excellence Awards

The solution - an uninterruptible power supply, or UPS, combined with an innovative 500 kW 10 kWh Polyjoule



power cell battery energy storage system - aimed to ...

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## Solar + BESS: An answer to New Zealand's electricity ...

The uptake of BESS in New Zealand is particularly important given that it can help to solve one of New Zealand's biggest energy challenges ...

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## Backup to Backbone: The Electricity Authority's Battery Energy Storage

New Zealand continues to increase the size of its renewable energy footprint and transition away from fossil-fuelled generation. The inherent variability of renewables (the sun ...

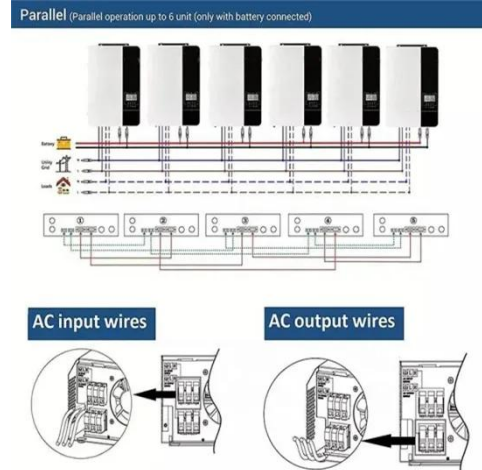
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## Mysolarquotes charts costs of solar and batteries in New Zealand...

The Energy Efficiency and Conservation

Authority (EECA) said farmers could halve their energy costs while also earning income. It is seeking farmers and growers to take part in a project that ...

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## Solar + BESS: An answer to New Zealand's electricity

The uptake of BESS in New Zealand is particularly important given that it can help to solve one of New Zealand's biggest energy challenges - meeting peak demand. In recent ...

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## Solar + BESS: An answer to New Zealand's electricity ...

Over recent years, it has become common for utility-scale solar projects in Australia to include a grid-scale battery energy storage system ...

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## Saft to deliver 200MWh BESS at New Zealand's ...

The Huntly Power Station, New Zealand's largest thermal power station. Image: Saft. Saft, a subsidiary of French energy



giant TotalEnergies, ...

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## Auckland Power Prices Guide: Costs, Trends & Solar ...

Historical pricing trends in New Zealand  
Understanding Auckland's electricity costs  
Time-of-use pricing and peak demand  
Solar power as a cost-reduction ...

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## Report: Unlocking the potential of community batteries ...

Aotearoa New Zealand faces a critical energy transition, balancing carbon reduction, affordability and resilience. This Climate Connect Aotearoa ...

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## New Zealand's 'first grid-scale battery

Infratec general manager Nick Bibby said that the storage system is "the first of its



scale to be built in New Zealand". As reported by Energy ...

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## A regulatory roadmap for battery energy storage systems

Battery energy storage systems (BESSs) are the most common new form of ESSs in New Zealand. The Authority is expecting a significant increase in the amount of BESSs connecting ...

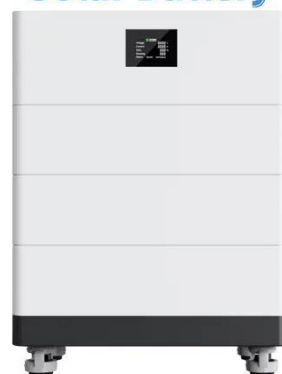
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## BATTERY STORAGE IN NEW ZEALAND

After 2020, costs are forecast to decline further to the point where battery storage is expected to have positive returns at distribution, commercial and residential levels if all services can be ...

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### High Voltage Solar Battery



## Energy storage costs

Wider deployment and the commercialisation of new battery storage technologies has led to rapid



cost reductions, notably for lithium-ion batteries, but also for high-temperature sodium-sulphur ...

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## Solar PV and Battery Capacities and Costs

Historical retail battery costs have been roughly double the battery cost used at over 1,000 \$/kWh. However, there have been reported sharp reductions in battery costs between 2022 and 2024, ...

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## Unlocking the potential for batteries to contribute to security of

The battery charges when intermittent renewable generation (like wind or solar) is high and demand is low, which usually results in low spot prices. The battery is then ...

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## 35MW Battery Energy Storage System Gains Traction ...

New Zealand's First Utility Scale Battery

Energy Storage System (BESS) Gains Traction WEL Networks and Infratec are pleased to announce that they have ...

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## Mysolarquotes charts costs of solar and batteries in New ...

The Energy Efficiency and Conservation Authority (EECA) said farmers could halve their energy costs while also earning income. It is seeking farmers and growers to take part in a project that ...

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## Spotlight on New Zealand: Battery storage capacity expands as ...

Recent dry conditions in 2023 and 2024 exposed the limitations of this reliance, triggering price volatility and renewed interest in battery energy storage as a tool to increase ...

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## Cost Projections for Utility-Scale Battery Storage: 2023 ...



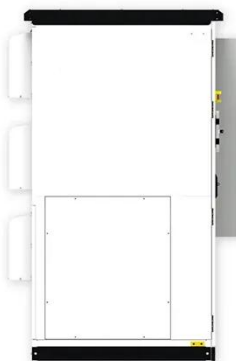
Executive Summary In this work we describe the development of cost and performance projections for utility-scale lithium-ion battery systems, with a focus on 4-hour duration ...

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## The Hidden Costs of Solar and Battery Systems in New Zealand: ...

Discover the true costs of solar and battery systems in New Zealand for 2024. Explore pricing trends, key insights, and what to expect for solar and battery prices in 2025.

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## Battery energy storage systems offering instantaneous reserve

This consultation paper takes the next step and focuses on battery technology's ability to provide short-term, instantaneous reserve to support power system stability. This is particularly timely ...

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