

# Total investment cost of solar with battery project in New Zealand





## Overview

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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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**Average Price For A Solar Power System:** The typical solar power system size from our dataset was a 7kW, the average cost for this system size was \$16,492. **Battery Systems Prices:** The average battery cost is \$1,249.79 per kWh, with smaller systems offering affordability and larger systems offering.

After surveying almost 100 New Zealanders about their solar and battery installs, Mysolarquotes recently released 'The Hidden Costs of Solar and Battery Systems in New Zealand: 2024 Insights' report. And it's good news for customers looking to go big. As the report summarised in its key takeaways.

This is the PV system's total cost, equal to the 'PV system AC unit cost' multiplied by the 'PV system AC capacity', plus fixed overhead costs such as export meter, inspection fee, distributor fee, and diverter or timer cost if a diverter or timer are used. Importantly, this includes the cost of.

The largest grid scale solar project commissioned to date is a 2MW project at Kapuni in South Taranaki and total project costs for larger sized projects remain uncertain. However, Aurecon has a good understanding of grid scale solar project costs in Australia and we have benchmarked MBIE's solar.

There are typically three types of solar panel available in New Zealand: CPV solar systems Unfortunately, all CPV solar systems and panels can cost. There have been significant improvements in the production of these panels and systems. Still, they are a little more costly than a traditional solar.

They decided to invest \$11,932 (including GST) in a tailored grid-tied solar system, installing a 5.28kW grid-tied system with 12 LONGi 440W Black Frame



panels paired with a Redback SI5000 5.0 kW inverter. After switching to solar, their average monthly bill dropped to \$73.07, saving them. 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?

Is solar power a good investment in New Zealand?

The investment is worthwhile for New Zealanders living in areas where power is costly or for those who wish to live off-grid solar and enjoy energy independence and the safety it affords. Calculating the payback period depends on how much your solar power system generates or “generated power” against current electricity prices.

How much does a solar power system cost?

Average Price For A Solar Power System: The typical solar power system size from our dataset was a 7kW, the average cost for this system size was \$16,492. Battery Systems Prices: The average battery cost is \$1,249.79 per kWh, with smaller systems offering affordability and larger systems offering better value per kWh.

Does New Zealand offer financial incentives for solar energy investments?

New Zealand offers various financial incentives for solar energy investments, including grants, subsidies, and tax benefits. These incentives can significantly reduce the initial costs of solar installations, making it more appealing for investors.

Why do New Zealand homes use solar power without a power storage system?

Homes that are grid-connected without a power storage system are prevalent in the New Zealand solar industry. These households use electricity from the main grid when there is a shortage of sunlight to generate energy and rely on solar power during cloudy days or at night time. The verdict.

Are solar panels expensive to install in Kiwi homes?



Apart from the panels, one of the more costly components of installing solar systems in kiwi homes is the labour installation costs of the installers. When choosing your solar installer, you should ensure they have relevant qualifications and experience and specialist training in solar installations.



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

As solar power becomes increasingly common across Aotearoa, more homeowners are considering the next big energy upgrade: home batteries. Whether you're looking to boost your ...

### [New Zealand battery project awarded to Saft as ...](#)

Expected project costs cited by WEL Networks chief executive Garth Dibley at the time were about NZ\$25 million (US\$17.13 million). The BESS will provide fast reserve ancillary services to the local grid, as well as providing ...



### [Harmony Energy JV starts building 202-MWp solar ...](#)

Harmony Energy and its joint venture partner First Renewables held a ceremony to launch the construction of a 202-MWp solar project in New Zealand, touted as the largest in the country.



### [New Zealand welcomes first big battery to national grid](#)

New Zealand's transition to a renewable energy future has taken a significant step forward with the nation's first grid-scale battery energy

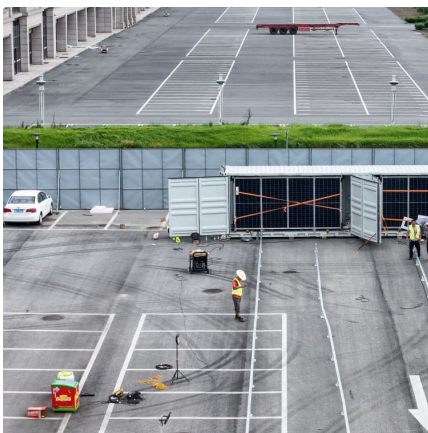


storage project now offering injectable reserves to



### [Harmony Energy invests in solar farms in New Zealand](#)

UK-based Harmony Energy, a renewable energy storage systems developer, will start construction on New Zealand's biggest solar farm after finalising the project's ...



### **New Zealand steps up approvals process for large-scale PV projects**

Ten large-scale solar farms planned for New Zealand's North and South islands are among 22 renewable energy projects with a combined capacity of 3 GW that have been ...



### [Is solar worth the investment in New Zealand?](#)

We need more renewable electricity, and we especially need more solar power! New Zealand energy experts have been calling for more solar energy as an alternative to fossil fuel generation. Even the conservative ...





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

After surveying almost 100 New Zealanders about their solar and battery installs, Mysolarquotes recently released 'The Hidden Costs of Solar and Battery Systems in New Zealand: 2024 ...

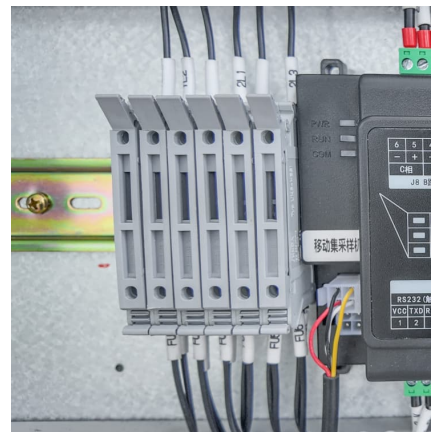


### [The Rise of Grid-Scale Battery Projects in New ...](#)

Grid-scale battery storage solves this problem of solar and wind intermittency, enabling the use of renewable plants for large sets of consumers. These are the NZ battery storage projects in the pipeline.

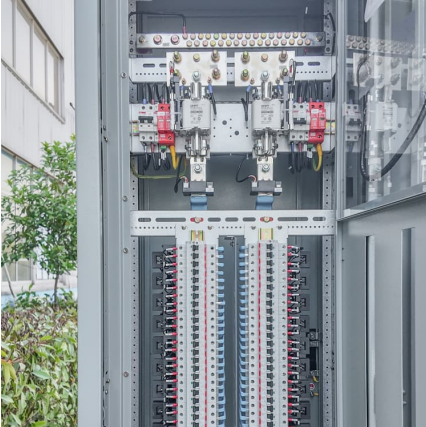
### **Solar Power Plant Cost**

Solar Power Plant Cost is a critical consideration for anyone looking to invest in renewable energy. As a seasoned engineer in solar power plant design and operation, I have seen firsthand the financial commitment ...



### **Wave Of Grid-Scale Solar**

A wave of solar generation is expected over the next few years, with a dramatic rise in large-scale sites seeking resource consent throughout 2022. Many developers plan to break ground in the coming months and be ...



### **New highs being hit in solar generation , Electricity ...**

New data from the Electricity Authority Te Mana Hiko shows energy from solar farms have been hitting new records this summer, with a historic peak of 128MW reached on 2pm, Thursday 6 March 2025. From 2-8 ...



### [Generation investment data and dashboard - now ...](#)

The dashboard provides an opportunity to view information about generation investment in New Zealand in different ways. For example, grouping by developer type shows that the proportion of projects developed by ...

### [Renewable energy investment opportunities in New ...](#)

With an impressive installed solar energy capacity of 470MW and a competitive levelised cost of electricity, New Zealand's solar energy sector is growing - and the potential is huge.





### Aurecon

This assignment is to assist MBIE understand the counterfactual scenarios relative to the NZ Battery option. The costs presented in this briefing paper reflect our knowledge of current ...

### Glenbrook-Ohurua Battery

The details Location: New Zealand Steel's Glenbrook site in south Auckland Capacity: 100MW (200 MWh) Energy type: Battery storing electricity generated by New Zealand's hydro, geothermal and wind power stations when there is low ...



### New Zealand cost solar battery

4 Benefits of Solar Battery Technology in New Zealand in 2020 All other solar companies in New Zealand charge for the upfront cost of solar power, but most of them offer financing over a ...

### Glenbrook-Ohurua Battery

The details Location: New Zealand Steel's Glenbrook site in south Auckland Capacity: 100MW (200 MWh) Energy type: Battery storing electricity generated by New Zealand's hydro, ...



[Meridian to proceed with \\$227m Ruakākā Solar Farm](#)

Construction of Meridian Energy's 130MW Ruakākā Solar Farm south of Whangarei is set to begin in August 2025, with the project receiving a final investment decision ...



**Solar farms in investment pipeline could triple NZ's power capacity**

Although not all projects listed their locations, three quarters of those that did are located in the North Island, with the Waikato region seeing the single greatest boost to ...



**Solar Panel & Solar Energy Systems NZ , Trusted Residential**

Discover ZEN Energy's custom solar systems for NZ homes and businesses. Explore grid-tied, hybrid battery, and off-grid solutions designed for savings, sustainability, and resilience.





### Are Solar Panels Worth The Investment In New ...

A solar power system has a high return on investment (ROI), and is an attractive investment, offering much more than bank term deposits or similar investments. One of the main reasons New Zealanders invest in solar power systems is to ...



### Solar Panel & Solar Energy Systems NZ , Trusted ...

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### **Briefing**

Wind and solar generation will increase in New Zealand over time to meet increasing demand from further electrification of the economy, and displace some of the coal, gas and diesel ...



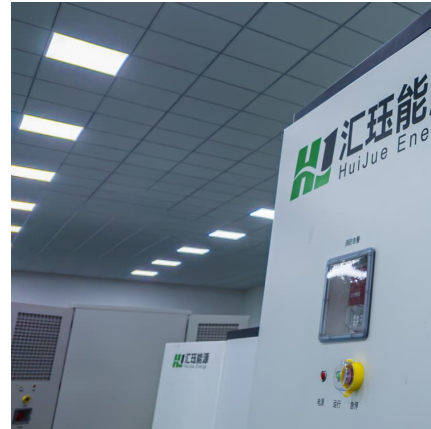
### **Renewable Energy 2024**

Introduction: Increasing Levels of Renewable Energy The need, and opportunity, for significant further investment in renewable energy generation in New Zealand has become increasingly clear in recent years. Large ...



## Update on the NZ Battery Project

Currently, New Zealand relies on the combustion of coal and gas to maintain security of supply through dry years when there is less rainfall/snow melt in the South Island hydro lakes. Cabinet ...

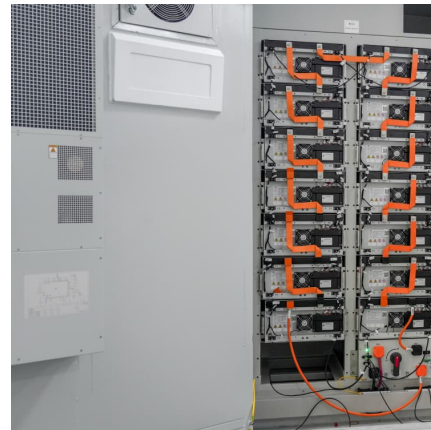


## Solar Return on Investment (ROI)

Is solar worth the investment in New Zealand? One of the key considerations for most people considering a home solar system is the potential return on their investment (ROI). ...

## Kiwi joint venture plans New Zealand's biggest solar ...

Aotearoa New Zealand's Nova Energy has partnered with gentailer Meridian Energy to build the 400 MW Te Rahui solar farm, to become the country's largest, while more solar projects are expected to quickly come ...



## [Solar energy in New Zealand -- facts and outlook](#)

Discover the benefits, challenges, and future potential of solar energy in New Zealand -- from rooftop solar PV systems to emerging grid-scale opportunities.



[Contact to develop a grid-scale 100 MW battery in...](#)

Contact's first renewable project in Auckland to start immediately. Tesla selected as battery energy storage system supplier, the first Megapack 2 XL project in New Zealand. The battery system will discharge stored energy at ...



**NZ Battery Project**

NZ Battery Project landscape and visual assessment - August 2021 [PDF 5.7MB]  
Addendum report, specialist report - landscape, NZ Battery Project: Lake Onslow PSS: Phase 1B feasibility study - July 2022 [PDF 90KB] ...

[Stratford solar , Lightsource bp New Zealand](#)

A proposed 170MWdc solar farm in Stratford, Taranaki The Stratford solar farm is a proposed 170MWdc project on a 450-hectare site of existing dairy farmland beside Contact Energy's ...



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