

Global PV Storage Insights

Expected ROI of rooftop solar storage project in New Zealand 2026

Nominal Capacity

280Ah

Nominal Energy

50kW/100kWh

IP Grade

IP54



Overview

How many rooftop solar panels are there in New Zealand?

There is about 200 MW of rooftop solar on residential buildings across New Zealand. The rest is commercial and industrial solar installations, where the business uses some or all of the solar generation on site. Any leftover generation is fed into the distribution network for other businesses and households to use.

Is rooftop solar a viable option for energy supply?

Disclaimer: All estimates of current electricity prices used by both AMCL and EECA are intended to be representative, and all future prices are intended to be explorative. Residential rooftop solar photovoltaic (PV) generation is now one of the most accessible and cost-effective options to increase energy supply from renewable resources.

Is rooftop solar the cheapest electricity available in New Zealand?

Rewiring Aotearoa's research has shown that rooftop solar is the cheapest delivered electricity available to New Zealand households, and a new in-depth study by the Energy Efficiency and Conservation Authority (EECA) has backed that up.

Can time-of-use retail prices improve the return of solar PV?

In the last section it was shown that time-of-use retail prices can, in some cases, improve the rate of return of solar PV with a battery compared to PV without a battery. However, the improvement is small and often occurs when there is a lower return for a system with a battery relative to one without.

How many solar installations are there in New Zealand in 2022?

In 2022, New Zealand had a record amount of distributed solar generation installed (68 MW). In the first few months of 2023, the rate of installation growth slowed somewhat.¹ However, distributed solar installations are

expected to increase, with Transpower forecasting 535 MW by 2030.

Should residential rooftop solar PV be priced at a sufficient scale?

While it has been shown that residential rooftop solar PV alone has similar returns to utility-scale solar, residential rooftop solar PV at a sufficient scale can access more benefits because it is distributed in distribution networks. To fully utilise such benefits, static time-of-use pricing may be sufficient initially.

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Solar generation now and in the future

The paper modelled wind and solar generation at all weather stations throughout the country, and estimated that even with all of these generators installed, solar generation would be below 10 percent of installed ...

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

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 ...



[Solar Market Insight Report Q4 2024](#)

3.3. Community solar PV 291 MW dc installed in Q3 2024 Up 12% from Q3 2023 Down 17% from Q2 2024 Note on market segmentation: Community solar projects are part of ...

EIA expects more solar capacity, higher power prices

EIA expects more solar capacity, higher power prices U.S. solar capacity will double in just four

years, to 182 GW in 2026, the U.S. Energy Information Administration said ...



More rooftop solar in cities would help solve NZ's energy crisis - ...

An indepth study by EECA that aimed to show "where and under what conditions does investing in solar PV make sense?" has shown that rooftop solar "is likely to be ...

Energy Box to Host 2nd Solar Energy Storage Future ...

Government Policies & Incentives: Unlocking More Solar & Storage Investments Grid Integration & Market Mechanisms: Solving Curtailment & Fair Pricing Issues Large-Scale Solar + Storage Projects: ROI & Financing ...



Solar Panel ROI: What To Know Before Installing - ...

Curious about installing solar panels but aren't sure about your solar ROI? We'll tell you what you can expect from a solar panel return on investment.

Are Solar Panels Worth It? Calculate Your Return on ...

Are solar panels worth it? We show you how to weigh the costs and benefits of going solar, and how to calculate your break even point.



Rooftop Solar in India's Energy Sector

For Prelims: India's rooftop solar (RTS), India's energy sector, photovoltaic panels Council on Energy, Environment and Water (CEEW), Ministry of New and Renewable Energy (MNRE), fossil fuels and energy imports, PM Surya Ghar ...

Solar Rooftop System Design: Key Trends and Feasibility ...

Discover top trends in solar rooftop system design and critical feasibility guidelines to maximize ROI in your commercial solar projects for 2025.



Projects

Projects As a proudly New Zealand owned and operated business, we specialise in developing, engineering, constructing, and maintaining solar farms and commercial/industrial rooftop projects across the country. Here is a selection of ...

Solar ROI Calculator: An Easy Way to Determine Your Payback

How do you forecast solar returns? Use our solar ROI calculator to determine the length of payback on your new investment and asset.



Rooftop Solar

New Zealand has a high potential for solar energy, with some areas receiving more than 2,000 hours of sunshine per year. The cost of solar panels and equipment has decreased significantly in recent years, making rooftop solar ...



Deye inverters and Deye batteries are more compatible.

NZ Solar Market Update - June 2025 , Rise Energy Insights

Lion's East Auckland brewery is adding a 2,424-panel rooftop system expected to generate 14.4 percent of the site's energy needs. With a payback period under seven years, it's a standout ...



How to Calculate the ROI of Rooftop Solar Panels

How to Calculate the ROI of Rooftop Solar Panels
 Average Cost of Solar Panel Installation
 The average cost of installing solar panels on a residential roof is approximately \$3 to \$4 per watt, ...

Rooftop Solar PV Market Size, Share & Growth Report 2035

3 ???· Rooftop Solar PV Market Outlook: Rooftop Solar PV Market size was over USD 62.93 billion in 2025 and is poised to exceed USD 113.77 billion by 2035, witnessing over 6.1% ...



Understanding the value of residential solar in NZ , EECA

Residential rooftop solar PV provides a means for consumers to lower their electricity costs, particularly if they choose to move more of their household energy consumption to electricity. ...

Solar Industry Research Data - SEIA

Growth in Solar is Led by Falling Prices Solar installation price drops over the last decade have made solar economically competitive with other sources of electricity generation and led to its ...



'NZ's largest solar farm' due to start construction this ...

At commissioning in late 2026, it is expected to be New Zealand's largest solar farm at 202MWp. The solar farm will generate 280GWh of electricity annually, enough to power about 35,000 New Zealand homes.

New Zealand brewery lines up 74,000 kg rooftop ...

One of the largest rooftop solar installations yet rolled out in New Zealand is nearing completion with a PV system comprising almost 2,500 panels and weighing more than 74,000 kilograms being bolted onto the roof of ...



Mid-scale Solar PV System Projections

The case for front-of-meter systems is not as clear. The Federal Government's expansion to the Capacity Investment Scheme, which seeks to install 23 GW of new renewable capacity across ...

Contents

This second emissions reduction plan (ERP2) is the Government's plan to meet the second emissions budget (EB2) for the period 2026-30. This final plan incorporates feedback and ...



Is rooftop solar the solution to New Zealand's energy woes?

New Zealand's huge hydro storage advantage means photovoltaics, particularly rooftop systems, can unlock real benefits for customers. This could mean shifting the ...

Are Solar Panels Worth The Investment In New ...

The price of solar power systems has decreased dramatically over the last few years, now making it a great investment earning you a high ROI.



Solar Return on Investment (ROI)

As power generation and prices become more challenging in New Zealand, the value placed on PV solar by prospective buyers is only likely to increase. So, what can you ...



20 Biggest Solar Projects in New Zealand

Now, you can set up a lucrative solar installation business to tap this abundant energy source in any corner of the planet. But, before that, it's clever to research a bit about the market, your competitors, and the new ...



Rooftop solar and storage biannual report

For the second consecutive quarter in 2025 Australia has seen weaker investment in new renewable energy and storage projects, following subdued investor confidence ...

How Much Does A 5KW Solar System Cost?

A 5-kW residential solar array is the entry point for many small to average homes that want to offset a meaningful share of daytime use without covering every inch of ...



The Average Payback for Commercial Solar Panels

Discover the payback and ROI of commercial solar panels. Learn how commercial solar panels can save you money and provide a high return on investment.

Residential Solar in New Zealand: Understanding the ...

Background Residential solar systems and battery storage are expected to play an increasingly important role in New Zealand's energy future, aligning with EECA's renewables energy ...



Calculating the Impressive ROI of Solar Panels: Is It ...

To get a clear picture of your potential solar ROI, it's best to consult with a professional installer and request getting a personalized quote based on your specific needs and property. With the numerous benefits and ...

NZ Solar Market Update - June 2025 , Rise Energy Insights

Explore key solar trends in NZ from June 2025 - including utility-scale projects, rural finance, ICP data shifts, and what they signal for NZ's energy transition.



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