

# Average utility scale ESS price per 8MW in New Zealand

How much does electricity cost in New Zealand?

This works out to cost roughly \$197 per month, if the current average kilowatt (kWh) price is 33.74 cents. It's important to understand that different areas of the country have different rates for electricity. The below table shows some of the average rates around the country. Where is the most expensive place in New Zealand for power?

What is the levelised cost of electricity comparison tool?

The Interactive Levelised Cost of Electricity Comparison Tool ranks the projects from lowest to highest LCOE and the resulting curve is a simplified representation of the long-run marginal electricity generation costs in New Zealand.

How much does electricity cost in Christchurch?

Christchurch, by comparison, enjoys rates 23% lower than Auckland's North Shore, with average annual bills of \$2,213 (comparison of electricity costs). The region's electricity demand reached peak levels of 5,260 MW during winter 2025, putting significant pressure on grid infrastructure.

Will Bess become a cog in New Zealand's energy landscape?

We expect that BESS will also become an increasingly important cog in New Zealand's broader energy landscape and that we will see utility-scale solar projects incorporating batteries as a means of providing dispatchable generation during peak demand and enhancing grid stability.

How much does electricity cost in Kerikeri & Westport?

For context, Kerikeri residents face the highest national rates at \$3,222 per year, while Westport households pay approximately \$3,221 annually. Christchurch, by comparison, enjoys rates 23% lower than Auckland's North Shore, with average annual bills of \$2,213 (comparison of electricity costs).

What is the levelised cost of electricity generation (LCOE)?

The graph ranks the projects from lowest to highest levelised cost of electricity generation (LCOE). If lower cost plants are built first, the majority of new build generation is wind. The graph shows a situation where the levelised cost of electricity generation (LCOE) of wind ranges from \$54 per MWh to \$70 per MWh.

Rapidly declining battery energy storage prices are on everyone's lips, but rare are the ones who can say for how long costs can stay on a downward trajectory. pv magazine ESS News sat down with Taipei-based ...

In order to differentiate the cost reduction of the energy and power components, we relied on BNEF battery pack projections for utility-scale plants (BNEF 2019, 2020a), which reports ...



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How much does it cost to build a battery in 2024? Modo Energy's industry survey reveals key Capex, O& M, and connection cost benchmarks for BESS projects.

1 Introduction This study examines the financial performance of solar photovoltaic (PV) generation and consumption at a commercial scale in New Zealand, considered here to be any solar ...

Prices are presented in units typical for each fuel (such as cents/litre for petrol and diesel or cents/kWh for electricity) and are displayed on a calendar year basis in both real (adjusted for inflation) and nominal terms for all available years.

With the installation of the Huawei LUNA2000-2.0MWH-2H1 in a 20" HC-container, Huawei offers the optimal large-scale storage solution. The ESS is a prefabricated all-in-one energy storage system with a modular structure, ...

This major contract for Genesis will be Saft's third utility-scale BESS to support the New Zealand grid. This success is based on the growing reputation of our Intensium lithium-ion battery containers as a reliable and cost ...

New Zealand's First Utility Scale Battery Energy Storage System (BESS) Gains Traction WEL Networks and Infratec are pleased to announce that they have entered into major contracts for ...

Summary of cost of living in New Zealand Family of four estimated monthly costs: NZ\$7,926 Single person estimated monthly costs: NZ\$4,202 Cost of living in New Zealand is more ...

The energy storage project is expected to come online during the July-to-September period of 2026. Saft described the Huntly Power Station as "the single largest ...

However, while the falling prices of materials significantly helped along the drop last year (also evident in a 20% fall in average battery pack prices), there are a myriad of other factors which have driven that reduction, ...

The residential electricity price in New Zealand is NZD 0.000 per kWh or USD . These retail prices were collected in December 2024 and include the cost of power, distribution and transmission, and all taxes and fees. Compare New ...

Such challenges are minimized by the incorporation of utility-scale energy storage systems (ESS), providing flexibility and reliability to the electrical system. Despite the ...

In 2025, you're looking at an average cost of about \$152 per kilowatt-hour (kWh) for lithium-ion battery packs, which represents a 7% increase since 2021. Energy storage systems (ESS) for four-hour durations



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exceed \$300/kWh, marking the ...

Residential and commercial solar systems are analyzed based on electricity savings at retail prices, while utility-scale projects are analyzed based on electricity generation at wholesale prices. In other words, smaller systems ...

The 100 MW East River Energy Storage System will hold enough electricity to power more than 16,000 average-sized homes for several hours, or enough to power the World Trade Center for ...

Base year costs for utility-scale battery energy storage systems (BESS) are based on a bottom-up cost model using the data and methodology for utility-scale BESS in (Ramasamy et al., 2021). The bottom-up BESS model accounts for ...

New Zealand's first utility-scale battery energy storage system has commenced operation with electricity distribution company WEL Networks confirming that its 35 MW/35 MWh Rotohiko battery facility has completed ...

Download scientific diagram | Example of a cost breakdown for a 1 MW / 1 MWh BESS system and a Li-ion UPS battery system from publication: Dual-purposing UPS batteries for energy storage functions ...

Executive Summary This report benchmarks installed costs for U.S. solar photovoltaic (PV) systems as of the first quarter of 2021 (Q1 2021). We use a bottom-up method, accounting for ...

Solar potential of New Zealand Solar panels on a home in Auckland Solar power in New Zealand is increasing in capacity, in part due to price supports created through the emissions trading scheme. As of the end of May 2025, New ...

The scale of the reduction suggests that in addition to the falling cost of batteries--BNEF's recent Lithium-ion Battery Price Survey found that battery pack prices fell ...

Current costs for utility-scale battery energy storage systems (BESS) are based on a bottom-up cost model using the data and methodology for utility-scale BESS in (Feldman et al., 2021). The bottom-up BESS model accounts for major ...

This dashboard shows the daily average and maximum wholesale price maps for the last seven days. It provides a quick comparison between days while highlighting any price separation ...

It's always helpful to know the different average costs of power across the country. By comparing the nearest major town or city's average bill, you can see where your bill falls.



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