

Global PV Storage Insights

Expected ROI of BESS project in New Zealand 2026

Highvoltage Battery



Overview

How much does a Bess project cost in New Zealand?

Construction of the BESS, located south of Whangārei, the northernmost city of New Zealand, began in early 2023 and was completed within the project's original budget of NZ\$186 million (US\$109 million). It forms stage two of Meridian's Ruakākā Energy Park development.

When is the first Bess project commissioned in New Zealand?

Whilst amendments were first made to New Zealand's Electricity Industry Participation Code 2010 (the Code) in 2018 to facilitate grid-scale BESS, the first significant (35MW) BESS project was not commissioned until March 2024.

What factors affect the ROI of a Bess?

External Factors that influence the ROI of a BESS The cost of electricity, including peak and off-peak rates, significantly impacts the ROI. Energy storage systems can store cheaper off-peak energy for use during expensive peak periods.

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 does a Bess project make money?

There are two key direct revenue streams for a standalone BESS project: energy arbitrage and ancillary services. Energy arbitrage involves purchasing electricity to charge the batteries when wholesale prices are low and supplying that energy back to the grid when wholesale prices are higher.

Why is Bess important in New Zealand?

BESS will become increasingly important in the future as New Zealand's power system relies on more intermittent and variable generation. Work set out in the roadmap includes: Improving network pricing to maximise consumer benefits from new and emerging technologies, including BESS.

Expected ROI of BESS project in New Zealand 2026



Biggest generator in New Zealand presses go on first solar farm, ...

The biggest generation company in New Zealand presses go on its first big solar farm, and reveals some interesting data around its output and pricing.

Energy Storage

How much power will the BESS project at Whakamaru generate? It will have a total installed capacity of between 200-300MW. The BESS will connect to an existing 220 kV line via a new 33kV underground cabling into a new switching ...



Enhancing New Zealand's energy with Glenbrook BESS

The Glenbrook Battery Energy Storage System (BESS) project is tackling Aotearoa New Zealand's electricity capacity and supply quality challenges in South Auckland. By boosting ...

Genesis Energy begins construction on 200MWh ...

The project will be developed at the Huntly Power Station, New Zealand's largest thermal power station. Image: Genesis Energy. Genesis

Energy, a listed New Zealand generation, wholesale, and retail energy ...



51.2V 150AH, 7.68KWH



Harmony Energy to co-develop 200MWac solar PV ...

UK BESS developer Harmony Energy has established a joint venture with New Zealand energy group Clarus' subsidiary First Renewables to develop a 200MWac solar project.

BESS Costs Analysis: Understanding the True Costs of Battery

Battery Energy Storage Systems (BESS) are becoming essential in the shift towards renewable energy, providing solutions for grid stability, energy management, and ...

48V 100Ah



Meridian completes 200MWh Ruakaka BESS in New Zealand

Meridian Energy, a New Zealand state-owned energy company, has completed the development of its 100MW/200MWh 2-hour duration Ruakaka BESS.

ENGIE : BESS Development and Belgian Market

ENGIE BESS Ambitions 10GW worldwide operational by 2030 Vilvoorde BESS Project New 200MW / 800MWh Battery Energy Storage System Capacity Remuneration Mechanism (CRM) ...

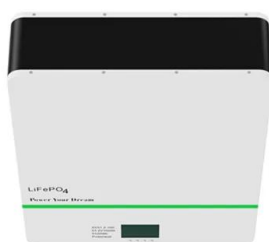


BESS in Germany 2025 and Beyond: Use Cases, ...

BESS Revenue Models German BESS revenues fell below 100 EUR/kW/yr in Q1'2024 due to mild winter and weak gas prices. By Q3, revenues recovered above 150 EUR/kW/yr, supported by market volatility and automatic ...

Understanding IRR Calculation for Battery Energy Storage Systems

IRR Definition: Internal Rate of Return (IRR) represents the discount rate at which the Net Present Value (NPV) of a project's cash flows equals zero, offering insights into ...



Enhancing New Zealand's energy with Glenbrook BESS

The Glenbrook Battery Energy Storage System (BESS) project is tackling Aotearoa New Zealand's electricity capacity and supply quality challenges in South Auckland. By boosting renewable energy flexibility, it will deliver reliable ...

The Rise of Grid-Scale Battery Projects in New Zealand

The renewable energy park is expected to go online by mid-2023, and will likely be New Zealand's largest-ever grid-scale battery farm. It will help improve the stability of the national grid, reduce the chance of network ...

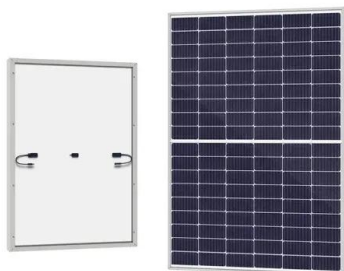


Australia: Lightsource bp reaches major milestone on solar and ...

The project is expected to be operational by the end of 2026. The Woolooga BESS, located near Gympie, Queensland, and co-located with the Woolooga solar farm, will ...

New Zealand bess cost breakdown

When is the first Bess project commissioned in New Zealand? Whilst amendments were first made to New Zealand's Electricity Industry Participation Code 2010 (the Code) in 2018 to ...



2024 BESS revenue performance: a tale of 3 markets

In today's article we line these 3 markets up 'head to head' and look at BESS revenue stack performance in 2024 (vs the last 3 years). Key drivers of BESS revenue stack in 2023-24 There are some important common ...

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 (BESS) to provide energy generated by the solar farm to the grid outside of the times ...

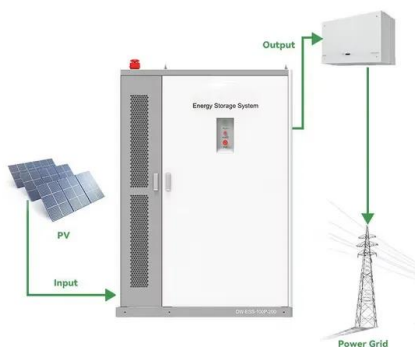


Energy Vault Project - New England BESS

Construction on both BESS deployments began in Q1 2025, with commercial operations targeted for 2025 and 2026. The BESS systems will be charged and discharged daily to help meet peak electricity demand in New South Wales by ...

Battery specialist Eku Energy joins migration to New Zealand with new

Harmony Energy is currently building a 100 megawatt (MW) BESS which is expected to be connected to the grid by mid-2026, and there is another 100MW proposal in ...



New 500 MW Battery Storage Projects Set to ...

Georgia Power has identified locations for 500 MW of new BESS. The projects are expected to provide dispatchable power resources by the winter of 2026-2027.

Genesis picks Saft batteries for 100-MW project in ...

The deal calls for Saft to equip a 100-MW/200-MWh facility at the Huntly Power Station, the country's largest thermal power complex on New Zealand's North Island. Saft said on Thursday it will engineer the battery ...



Engie breaks ground on 800 MWh battery in Belgium

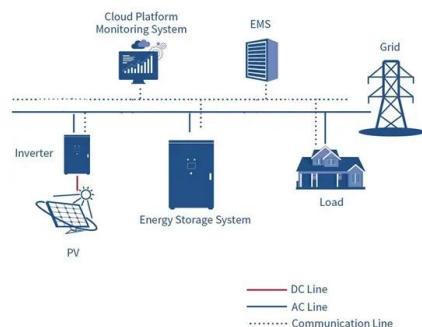
The Vilvoorde BESS project will be launched in two phases, with the commissioning of 100 MW of batteries in September 2025, and a further 100 MW in January 2026.

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



**2MW / 5MWh
 Customizable**



The rise of bankable BESS projects in Europe

As the renewable energy sector rapidly evolves, battery energy storage systems (BESS) are emerging as a critical pillar for decarbonization. However, with capital constraints and rising market

White paper BATTERY ENERGY STORAGE SYSTEMS ...

' pilot project that will procure 250 MW of BESS capacity for delivery between 2023 and 2027. This 'Fast Reserve' project provides assets with capacity-based remuneration and allows new ...



Maximising BESS Earnings: 5 Key Revenue Models

Floors, revenue share, tolling, performance-based: discover the different BESS revenue strategies to maximise revenue and build bankable projects.

New 500 MW Battery Storage Projects Set to Enhance Grid ...

Georgia Power has identified locations for 500 MW of new BESS. The projects are expected to provide dispatchable power resources by the winter of 2026-2027.



New Zealand's First Utility Scale Battery Energy ...

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 the supply and build of New Zealand's largest ...

Genesis kicks off battery construction at Huntly Power Station

The site is expected to be operational by late 2026, and come in under its budget of \$150 million. Johns said this was the first stage of a multi-stage project that would see the Huntly Portfolio ...



Biggest generator in New Zealand presses go on first ...

The biggest generation company in New Zealand presses go on its first big solar farm, and reveals some interesting data around its output and pricing.

Battery Energy Storage Systems (BESS): Market Growth and ...

Over 70% of new solar and wind projects in 2024 are expected to include BESS integration Energy developers are increasingly incorporating battery storage into renewable projects to ...



BESS in Germany 2025 and Beyond: Use Cases, Business ...

BESS Revenue Models German BESS revenues fell below 100 EUR/kW/yr in Q1'2024 due to mild winter and weak gas prices. By Q3, revenues recovered above 150 ...

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