

Global PV Storage Insights

Gel battery storage project financing options in New Zealand 2025



Overview

Where is New Zealand's first grid-connected battery energy storage system located?

Meridian Energy has completed construction of New Zealand's first large-scale grid-connected battery energy storage system (BESS) at Ruakākā, with an official opening ceremony scheduled for later today.

What is the NZ battery project?

The NZ Battery Project has been exploring ways of solving the dry year problem in New Zealand without using fossil fuels and support a pathway to 100% renewable electricity generation. The dry year problem is currently managed in New Zealand by varying thermal fossil fuelled plant, burning gas, coal, and occasionally, diesel.

How many community-scale batteries are there in New Zealand?

At the moment there has only been one community-scale battery deployed in New Zealand, with another coming online as part of the Franklin energy sharing pilot – a joint project initiated by Ara Ake, Climate Connect Aotearoa and Counties Energy.

How will the NZ battery project affect wholesale prices?

The IBC indicates that the net effect is likely to be downwards pressure on wholesale prices that is comparable to the Lake Onslow option (noting that the NZ Battery project's economic modelling to date has been focused on costs rather than prices, so it is premature to draw final conclusions on the magnitude of price impacts).

What is a battery energy storage system?

ESSs enable electrical energy to be stored and then injected into the power system when it is needed most. This ensures that homes and businesses are powered even when the sun does not shine or the wind is not blowing. Battery

energy storage systems (BESSs) are the most common new form of ESSs in New Zealand.

Is battery storage a risky investment?

Firstly, the nascent nature of energy storage technology means that fixed income lenders and senior debt providers are naturally risk averse. Battery storage has less of a track record than other renewable energy assets such as solar and wind power.

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INTEGRATED DESIGN

EASY TO TRANSPORT AND INSTALL,
FLEXIBLE DEPLOYMENT



Oneida Energy Storage

Oneida Energy Storage facility is a 250 MW/1,000 MWh lithium-ion battery energy storage facility, representing the largest grid-scale battery energy storage facility in Canada and within the top five clean energy storage projects in the world. It ...

Shell Energy Storage and Battery Initiatives for 2025: Key Projects

Shell Energy Storage and Battery Initiatives for 2025: Key Projects, Strategies and Market Impact
Shell's Energy Transition: Powering a Sustainable Future Through ...



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 commissioned report explores the promising potential of community ...

Financing Battery Storage Systems: Options and ...

Thinking about Financing Battery Storage Systems for your commercial or industrial

facility? Learn about strategies you have available in this blog and webinar.



A 2025 Update on Utility-Scale Energy Storage ...

While the energy storage market continues to rapidly expand, fueled by record-low battery costs and robust policy support, challenges still loom on the horizon--tariffs, shifting tax incentives, and supply chain uncertainties ...

Financing battery storage+renewable energy

Off-grid industrial users may also find battery storage an interesting proposition, lowering power costs and reducing reliance on diesel supplies. For example, the DeGrussa Copper-Gold mine ...



Financing Strategies for Battery Energy Storage Projects

This webinar is ideal for anyone involved in the implementation of battery energy storage projects at their facilities and will provide valuable insights and strategies for successful deal design

Green light for utility-scale battery storage project in Delfzijl

GIGA Storage has reached financial close for its utility-scale Battery Energy Storage System project GIGA Leopard in Delfzijl the Netherlands.



Chilean Battery Energy Storage Systems Stabilize Energy ...

Fitch Ratings-Sao Paulo/New York-01 April 2025: Project finance transactions in Chile are expected to increase due to the recent commissioning of large battery energy storage ...

Meridian brings online New Zealand's first grid-scale battery storage

Meridian anticipates that the BESS will generate annual revenues of up to US\$35 million. Image: Meridian Energy. Meridian Energy, a New Zealand state-owned energy ...



- Efficient Higher Revenue**
 - Max. Efficiency 97.5%
 - Max. PV Input Voltage 1500V
 - 150% Peak Output Power
 - 2 MPP Trackers, 150% DC Input Downscaling
 - Max. PV Input Current 15A, Compatible with High-Power Modules
- Intelligent Simple O&M**
 - IP66 Protection Degree: support outdoor installation
 - Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
 - DC & AC Type II SPD: prevent lightning damage
 - Battery Reverse Connection Protection
- Flexible Abundant Configuration**
 - Plug & Play, LPS Switching under 10ms
 - Compatible with Lead-acid and Lithium Batteries
 - Max. Currents Resistor Thermal
 - AFC Function (Optional): when an arc fault is detected the inverter immediately stops operation

February 2025 State of Charge

As part of its June 2024 Order, New York's 6 GW Energy Storage Roadmap Policy Options for Continued Growth in Energy Storage, the PSC adopted a target of 6 GW of ...



Comparing Battery Energy Storage Systems (BESS) in Australia ...

Battery Energy Storage Systems (BESS) are pivotal in modernising electricity grids, enhancing reliability, and integrating renewable energy sources. Australia has been at the forefront of ...



Sunraycer Renewables Closes \$475mm Project Financing ...

Comprised of construction-to-term loan, bridge loan, and letter of credit facility to construct and operate Gaia and Midpoint solar and battery energy storage projects Annapolis, ...

[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 ...



Latest Battery Energy Storage System (BESS) Projects in New

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Search all the latest and upcoming battery energy storage system (BESS) projects, bids, RFPs, ICBs, tenders, government contracts, and awards in New Zealand with our comprehensive ...

Meridian powers up New Zealand's largest grid-scale ...

Meridian Energy Ltd (NZE:MEL) has completed the installation of what it says is New Zealand's first large-scale grid battery energy storage system (BESS), a facility that will provide two hours of storage capacity.

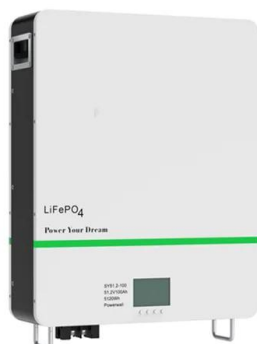


Oneida Energy Storage

Oneida Energy Storage facility is a 250 MW/1,000 MWh lithium-ion battery energy storage facility, representing the largest grid-scale battery energy storage facility in Canada and within the top ...

Utility-Scale Battery Storage in the U.S.: Market Outlook, Drivers, ...

Utility-scale battery storage is no longer a niche solution--it's becoming foundational infrastructure. What's Driving Utility-Scale Storage Demand? Grid Flexibility and ...



Financing the Energy Transition - Funding battery storage projects

Battery storage project financings tend to have finance documents which mirror those seen in a renewables project financing, though they raise a number of additional issues, ...

Making project finance work for battery energy storage projects

And yet, despite the overwhelmingly urgent need for energy storage around the world, the application of project finance mechanisms to battery energy storage projects has been patchy

...



The Project Financing Outlook for Global Energy Projects in 2025

Both the US and global energy storage markets have experienced rapid growth over the last year and are expected to continue expanding rapidly in order to support grid ...

Completion of Ruakaka Battery Energy Storage System

Completion of Ruakaka Battery Energy Storage System 23/05/2025, 08:30 NZST, GENERAL Construction of New Zealand's first large-scale grid battery storage system ...



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 ...

Meridian Energy Completes New Zealand's First Large-Scale Grid Battery

Meridian Energy has completed construction of New Zealand's first large-scale grid-connected battery energy storage system (BESS) at Ruakaka, with an official opening ...

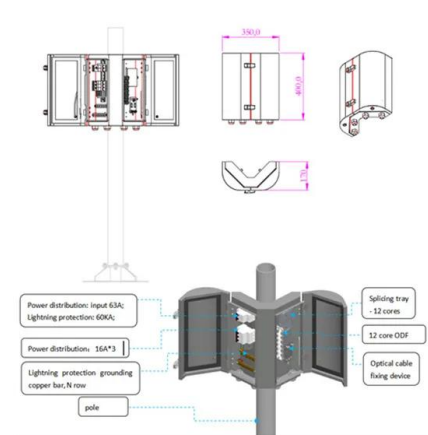


Biggest projects in the energy storage industry in 2024

The full completion and commercial operation of the Edwards & Sanborn project in California was announced in January 2024. The project in Kern County pairs ...

The Project Financing Outlook for Global Energy ...

Both the US and global energy storage markets have experienced rapid growth over the last year and are expected to continue expanding rapidly in order to support grid resiliency. Through 2030, the global ...



Utility-Scale Battery Storage in 2025: Navigating Tariffs, Tax

EXECUTIVE SUMMARY Battery Energy Storage Systems (BESS) have become a cornerstone of modern energy infrastructure in the United States. As the national grid lessens its dependence ...

Boralex closes financing for Canada's largest BESS

The Hagersville Battery Energy Storage park, located in Haldimand County, Ontario, Canada, will be the largest battery energy storage system (BESS) project to date in Canada. The project is expected operational ...



[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 ...

NZ Battery Project moves to next phase

NZ Battery Project moves to next phase
Published: 16 March 2023 The Government has announced it will progress to the next stage of the NZ Battery Project, looking ...



Financing Energy Storage: A Cheat Sheet

As such, we're providing this "Cheat Sheet for Energy Storage Finance" based on our work as buy-side and sell-side investment bankers experienced in both energy storage venture capital and project finance. I'm also including some ...

Ekü steps in New Zealand with BESS project purchase

Ekü Energy, the battery storage platform of Macquarie's Green Investment Group (GIG), has acquired an energy storage project in New Zealand, a move that marks its entry into the country.



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