

# New Zealand Auckland energy storage equipment supporting enterprises

Which energy company is building New Zealand's first grid-connected battery energy storage system?

Meridian Energy is building New Zealand's first large-scale grid-connected battery energy storage system (BESS) at Ruakaka on North Island. Paris, January 10, 2023 - Saft, a subsidiary of TotalEnergies, has been awarded a major contract by Meridian Energy to construct New Zealand's first large-scale grid-connected BESS.

What is a battery energy storage system?

Solutions / Battery Energy Storage Systems (BESS) Battery Energy Storage Systems (BESS) are becoming a fundamental part of the network and transmission infrastructure globally. BESS systems allow for increased penetration of intermittent renewable generation, which complements the global transition to zero carbon generation.

Will Huntly assets support New Zealand's energy security?

Off the back of its experience in Winter 2024, Genesis asked KPMG and Concept Consulting to assess the future requirement for Huntly assets to support New Zealand's energy security over the short, medium, and long term. Key takeaways from this report:

What is the Glenbrook battery energy storage system (BESS) project?

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

Will a 100-megawatt solar farm improve New Zealand's national grid?

Located at Ruakaka in the country's North Island, the 100-megawatt (MW) BESS will improve the stability of the national grid, as intermittent renewable power generation increases in New Zealand. The BESS is the first stage of a project that will include the construction of a co-located 130 MW solar farm by Meridian Energy.

Why does New Zealand need 'flexible' energy?

has largely displaced thermal generation assets from baseload duty. As with other electricity markets around the world, the use of renewables means the market faces great exposure to climatic conditions - the amount of rain, wind, and sunshine in particular locations - and therefore New Zealand requires significant amounts of 'flexible'

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The Hiringa Energy team has key skills and experience in hydrogen supply infrastructure, hydrogen transport and hydrogen refuelling systems design. We are working with hydrogen fuel cell suppliers to bring hydrogen fuel cell ...

The need for energy storage: Firming New Zealand's renewable energy" February 2025 The need for energy storage: Firming New Zealand's renewable energy Context . In Aotearoa New Zealand we are fortunate to have a strong history of investing in renewable energy. The continuing investment in renewables is supporting New Zealand to meet the

The Rise of Sustainable Tech Companies. The emergence of Sustainable Tech Companies is not merely a product of recent environmental awareness; it is the culmination of historical contexts, societal shifts, and technological advancements. Over the last few decades, as awareness of climate issues has grown, so too has the development of technologies designed to mitigate ...

The current New Zealand Energy Efficiency and Conservation Strategy 2017-2022 (NZECS) sets the overarching policy direction for government support and intervention for promoting energy efficiency, energy conservation and the use of renewable sources of energy. Its goal is for New Zealand to have an energy-productive and low-emissions economy.

There is a reason for this. Evaluating potential revenue streams from flexible assets, such as energy storage systems, is not simple. Investors need to consider the various value pools available to a storage asset, including wholesale, grid services, and capacity markets, as well as the inherent volatility of the prices of each (see sidebar, "Glossary").

New Zealand has set ambitious targets for reducing greenhouse gas emissions, including achieving net zero emissions by 2050. The country enjoys many natural advantages for its energy transition, including an enviable renewable resource base.

The key purpose of the Green Energy Engineering Centre (GEEC) is to carry out research which will help New Zealand reach a zero-carbon economy through increased investment in renewable energy. Current energy ...

convened by Standards New Zealand on behalf of WorkSafe New Zealand - Energy Safety. The membership of this group was approved by the New Zealand Standards Approval Board and appointed by the New Zealand Standards Executive under the Standards and Accreditation Act 2015. The TAG consisted of representatives

Hitachi Energy has a long history in the New Zealand energy market. We are one of the biggest providers of



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equipment, systems and services into the energy industry across utilities, renewables, transportation and data centers, helping industries decarbonize on the road to Net Zero.. Electricity will be the backbone of the energy system moving forward.

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About 40% of New Zealand's total greenhouse gas emissions come from our energy use. The choices we make about how we use energy in our everyday lives and businesses have an impact. Our opportunity is to build out a strong and stable energy system by prioritising energy efficiency, energy conservation and the use of renewable energy sources.

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Meridian Energy is building New Zealand's first large-scale grid-connected battery energy storage system (BESS) at Ruakaka on North Island; Saft lithium-ion technology will ...

Infratec general manager Nick Bibby said that the storage system is "the first of its scale to be built in New Zealand". As reported by Energy-Storage.news, the two companies completed their assessment of the project in late 2021, selecting a site in Huntly, a town in the Waikato District.. They then announced the appointment of key contractors in March of last ...

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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 ...

Russell McVeagh employs approximately 350 staff and partners across its Auckland and Wellington offices. The firm's renewable energy team is a market leader in New Zealand and has represented local and international clients on some of the most high-profile renewable energy transactions.

Current energy research within the Faculty of Engineering and Design encompasses geothermal, wind, solar, and marine energy, green hydrogen, electricity optimization, as well as energy storage, efficiency, and ...

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25 March 2025. Resource Management reform set to streamline desperately needed thermal generation Energy Resources Aotearoa welcomes the prospect of new planning legislation to replace the Resource Management Act, reducing unnecessary red tape and streamlining decision-making about where development can and should be...

Hydrogen projects in Aotearoa New Zealand. The New Zealand Hydrogen Council publishes a list of hydrogen projects in New Zealand. A number of these projects were supported by co-funding from government. Current hydrogen projects in New Zealand ([external link](#)) -- Hydrogen New Zealand. Government investment in hydrogen research, science and ...

The NZ Battery Project was set up in 2020 to explore possible renewable energy storage solutions for when our hydro lakes run low for long periods. A pumped hydro scheme at Lake Onslow was one of the options being explored. The Government stopped the Lake Onslow investigations in late 2023.

New Zealand's electricity system is transforming to electrify New Zealand and reach net zero carbon emissions for 2050. The electricity market is shifting to more renewable intermittent generation (eg, wind and solar), with new and many technological advancements, distributed energy resources (eg, rooftop solar panels



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and battery storage), mass ...

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