

## SolarTech Power Solutions

# Investment value of New Zealand energy storage power station

- ✓ High energy density and long cycle life
- ✓ Modular structure

No need to replace the battery

Shorter charging time

Meets 99% EV car



## Overview

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Will Rankine power supply increase wholesale electricity prices in New Zealand?

Concept Consulting's modelling shows that without thermal generation from the Rankine units as part of New Zealand's energy storage solution, wholesale electricity prices would likely be 60% higher in the short-term (the next two-to-three years) and 11% higher in the long-term (ten+ years).

Why is New Zealand transitioning to a highly renewable electricity system?

New Zealand is transitioning to a highly renewable electricity system. This change will require increased and accelerated investment in new electricity generation to match demand growth and the retirement of thermal power plants.

What is the NZ battery project?

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.

Can battery technology save energy in New Zealand?

transferring and using energy. In New Zealand, our hydro lakes store energy on a large scale. However, until now we have had limited options to store electricity cost-effectively close to where it is used. Around the world, battery technology now offers opportunities to store electricity economically.

Is there value in New Zealand's storage solutions?

There is value in New Zealand having diversity for its storage solutions, as seen by the impact of the lack of gas in Winter 2024. This white paper presents the key findings of that analysis, including considering a long list of solutions for flexibility and modelling of electricity prices under different

scenarios.

Why is electricity important in New Zealand?

For Kiwi homes and businesses. Electricity is a convenient means of transferring and using energy. In New Zealand, our hydro lakes store energy on a large scale. However, until now we have had limited options to store electricity cost-effectively.

## Investment value of New Zealand energy storage power station

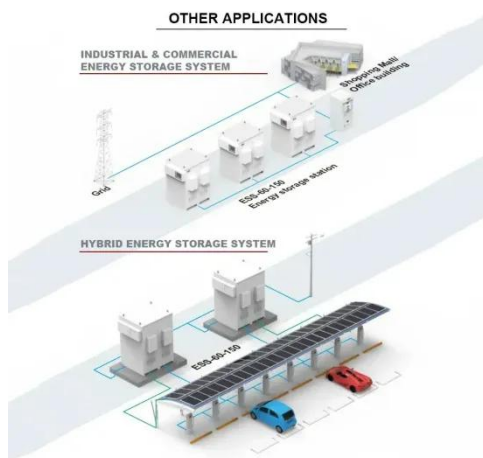


### Insights , Investing in New Zealand Green Energy: ...

Apr 11, 2025 · In recent years, New Zealand has become a hotspot for global green energy investment with its abundant renewable energy resources and firm commitment to sustainable ...

### New Zealand's electricity future: generation and ...

Feb 14, 2023 · New Zealand's future is electric. More electricity generation is needed to meet increasing demand and to replace fossil fuel-fired generation. ...



### Strategy on track despite challenging year , Genesis NZ

Aug 21, 2024 · Strategy Being Delivered: Retail reset progressed - 130 FTE removed 85 MW Huntly Firming Options sold 100 MW (200 MWh) battery for Huntly Power Station 190 MWp of ...

## Strategic Player in the Future of New Zealand Energy

Jul 3, 2024 · 6-10 month pathway to new gas production Restoration projects planned for low investment, quick pay-back opportunities - including new gas storage solutions



12V 10AH



## The need for energy storage: Firming New Zealand's ...

Feb 19, 2025 · 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 ...

## Investing in New Zealand's Renewable Energy Revolution

Jan 27, 2025 · As New Zealand pivots towards a sustainable future, renewable energy projects present a unique opportunity for investors looking to make a positive impact while reaping ...



## BATTERY STORAGE IN NEW



## ZEALAND

Sep 7, 2023 · the electricity supply chain. We did this by investigating the costs, benefits, regulatory, technical and commercial implications of battery storage located in different regions ...

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### Analysis of energy storage power station investment and ...

Nov 9, 2020 · In order to promote the deployment of large-scale energy storage power stations in the power grid, the paper analyzes the economics of energy storage power stations from three ...



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### Backup to Backbone: The Electricity Authority's Battery Energy Storage

Jul 21, 2025 · Backup to Backbone: The Electricity Authority's Battery Energy Storage Systems (BESS) Roadmap helps confirm New Zealand BESS investment "open for business"

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## BATTERY STORAGE IN NEW

## ZEALAND

Sep 7, 2023 · We considered hosting our own trial of grid-connected battery storage, but first we chose to investigate the benefits of battery storage across the electricity supply chain. We did ...



## Life Cycle Cost-Based Operation Revenue Evaluation of Energy Storage

Jun 23, 2024 · The results show that the energy storage power station can realize cost recovery in the whole life cycle, and the participation of the energy storage power station in multiple ...

## Energy Storage Power Station Investment Manual

To this end, this paper constructs a decision-making model for the capacity investment of energy storage power stations under time-of-use pricing, which is intended to provide a reference for ...



## Investing in New Zealand's Renewable Energy



## Landscape

Jan 27, 2025 · References Invest New Zealand - A comprehensive resource for investment opportunities in New Zealand, including insights into the renewable energy sector. New ...



## The need for energy storage: Firming New Zealand's ...

Jul 28, 2025 · Concept Consulting's modelling shows that without thermal generation from the Rankine units as part of New Zealand's energy storage solution, wholesale electricity prices ...



**2MW / 5MWh**  
**Customizable**

## Understanding the value of residential solar PV and ...

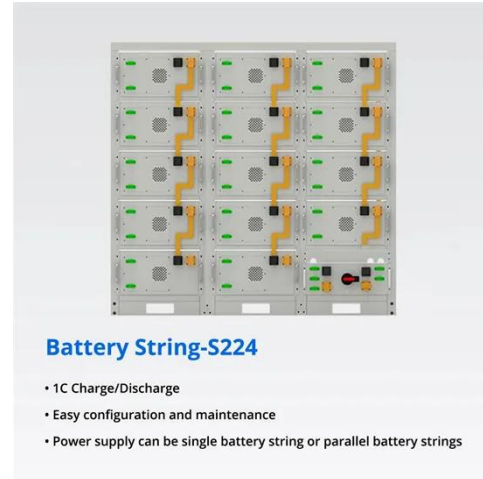
Jun 23, 2025 · The central aim of this study is to examine the economics of distributed, residential rooftop solar PV across New Zealand to better understand its long-term value proposition. To ...

## The Economic Value of Independent Energy



## Storage Power Stations ...

Aug 12, 2023 · Under the "dual carbon" goal, the proportion of new energy generation in new power systems is increasing, and the volatility and uncertainty of power output are also ...



## Contact accelerates renewable investment with new \$300m power station

"The closure of the Te Rapa power station is aligned with Contact's strategy to decarbonise New Zealand and demonstrates that we don't just talk about decarbonisation, we deliver on our ...

## The need for energy storage: Firming New Zealand's ...

Jul 28, 2025 · 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 ...



## Capacity investment



## decisions of energy storage power stations

Sep 12, 2023 · Impact of pricing method, energy storage investment and incentive policies on carbon emissions. A two-stage wind power supply chain including energy storage power stations.

## Study on the investment and construction models and value ...

Jul 26, 2025 · New energy-storage systems play a pivotal role in the development of the new power system for advancing the energy transition in China. In the "14th Five-Year Plan" for the ...



## Genesis Energy Chooses Saft for Major Battery Project

Sep 24, 2024 · Saft partners with Genesis Energy to revolutionize New Zealand's energy landscape, launching a powerful 100-MW battery storage project at Huntly Power Station by ...



## How about energy storage

## power station investment company

Jun 30, 2024 · Energy storage power station investment companies are integral to the transition toward renewable energy.<sup>2</sup> These firms focus on developing and managing facilities that store ...



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<https://posecard.eu>