

Outdoor Energy Storage in New Zealand





Overview

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.

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.

What is a scalable solar energy storage system?

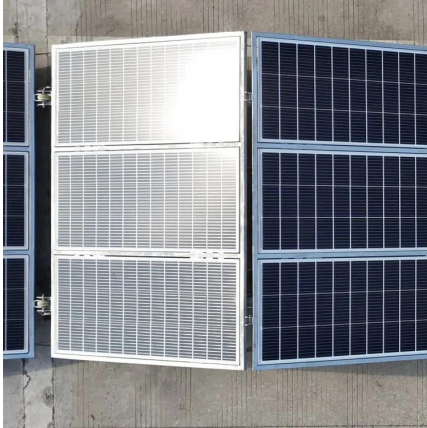
With scalable solar energy storage systems that cut costs, boost resilience, and gives farms and businesses full control over your energy use. Ernest Energy provides turnkey solar and battery energy storage systems (BESS) tailored for New Zealand's commercial and agricultural sectors.

What is the Dannevirke solar & energy storage project?

The Dannevirke Solar & Energy Storage Project is a 107 MW solar farm in Tararua District, featuring optional battery storage of up to 72 MW / 150–300 MWh. With a 40-year operational life, it will generate 181 GWh annually—enough to power 25,000 homes—and cut carbon emissions by 13,000 tonnes.



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BATTERY STORAGE IN NEW ZEALAND

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 ...

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[Outdoor Container Battery Energy Storage ...](#)

Electrotest provides tailored Battery Energy Storage System (BESS) solutions in New Zealand. From design and integration to testing and commissioning, our experts deliver reliable, cost-effective energy storage ...

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Spotlight on New Zealand: Battery storage capacity expands ...

New Zealand's electricity system remains heavily dependent on hydro generation, especially in the South Island, where facilities like Manapouri and Clyde dams dominate. ...

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[Dannevirke Solar & Energy Storage Project -- NZCE](#)

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[Meridian Powers up New Zealand's Largest Grid-Scale Battery](#)

Meridian Energy Ltd (NZE:MEL) has successfully installed what is New Zealand's first large-scale grid battery energy storage system (BESS). This innovative facility, located ...

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NZ Battery Project

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What experience do we have with Battery Energy Storage Systems? We're building on the experience of our pioneering direct grid-connected 1MW/ 2MWh battery that we piloted at our Southdown Power Station in 2018, a ...

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[The need for energy storage: Firming New Zealand's ...](#)

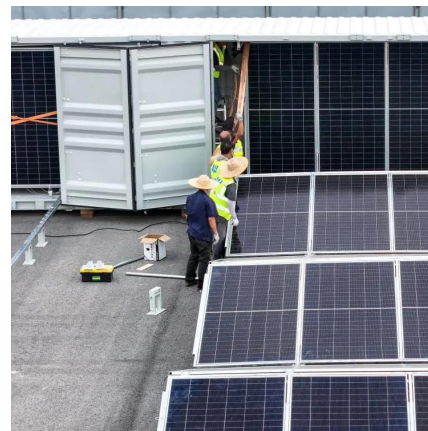
Concept Consulting's modelling shows that without thermal generation from the Rankine units as part of New Zealand's energy storage solution, wholesale electricity prices ...

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Ernest Energy - The future of energy, designed for New Zealand

Ernest Energy provides turnkey solar and battery energy storage systems (BESS) tailored for New Zealand's commercial and agricultural sectors. Our integrated solutions reduce energy ...

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[Cygni All-in-One Home Energy Storage Project in New Zealand](#)

Cygni's wire-free, free-stacking design simplifies the installation process and allows full capacity charging in just one hour, realizing efficient deployment and fast usage. It is IP66 rated for ...

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