



**EQACC SOLAR**

# **Sodium battery energy storage in New Zealand**



## Overview

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Are sodium-ion batteries available in New Zealand?

The other good news about Sodium-Ion batteries is that they are now available in New Zealand. Aquion Energy, based in Pittsburgh, are manufacturing the battery cells that are being distributed by Taspac throughout New Zealand. Image above: Aquion, S-Line Battery Stack.

Are sodium-ion batteries a good choice for energy storage?

Compared to Lithium, Sodium is cheap and abundant. If we want to store mass amounts of energy from solar and wind, Sodium-Ion batteries could be a great economic and environmental choice. With energy companies racing to develop energy storage, one can only assume that there will be a breakthrough through technology.

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.

## Sodium battery energy storage in New Zealand

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### Sodium-ion batteries for sustainable energy storage

Lithium's limited availability and cost have raised concerns about lithium-ion batteries' (LIB) sustainability, so sodium-ion battery technology may offer an alternative. In a ...

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## NZ Battery Project

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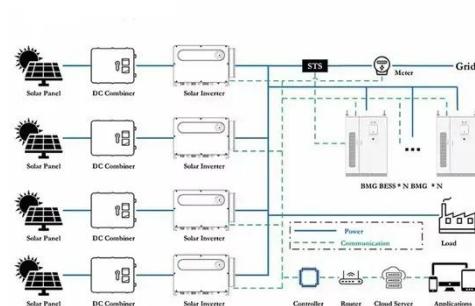
### A regulatory roadmap for battery energy storage systems

Battery energy storage systems (BESSs) are the most common new form of ESSs in New Zealand. The Authority is expecting a significant increase in the amount of BESSs ...

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## Sodium-ion batteries for sustainable energy ...

Lithium's limited availability and cost have raised concerns about lithium-ion batteries' (LIB) sustainability, so sodium-ion battery ...



## 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. ...

### 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 ...



### New Zealand's 'first grid-scale battery'

WEL Networks and developer Infratec have launched their grid-connected battery energy storage system (BESS) in New Zealand.



## 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 ...

### Home Energy Storage (Stackble system)



## Sodium-Ion Batteries, Game Changer

Please see the updated blog article about sodium-ion batteries for 2024 here. Sodium-Ion Batteries are making a lot of noise in the renewable energy storage space. ...

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lot of noise in the ...



## Sodium battery energy storage in New Zealand

Sodium battery energy storage in New Zealand  
Lithium-Ion vs Sodium-Ion Batteries: Pros, Cons & Best Uses ·  
Compare sodium-ion vs lithium-ion batteries: energy ...

### NZ Battery Project

Phase 1 - Feasibility Study  
Phase 2 - Detailed Business Case, Final Investment Decision  
Phase 3 - Implementation Scope and decision-points  
Investigation and evaluation of long-term, large-scale renewable energy storage options, including pumped hydro and a range of other dry year storage solutions. The project explores in detail the feasibility of pumped hydro at Lake Onslow, including geotechnical investigations.  
Cost: approxi...See more on [mbie.govt.nz/pv](http://mbie.govt.nz/pv) magazine International



## New Zealand welcomes first big battery to ...

New Zealand's transition to a renewable energy future has taken a significant step forward with the nation's first grid-scale battery ...



## 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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