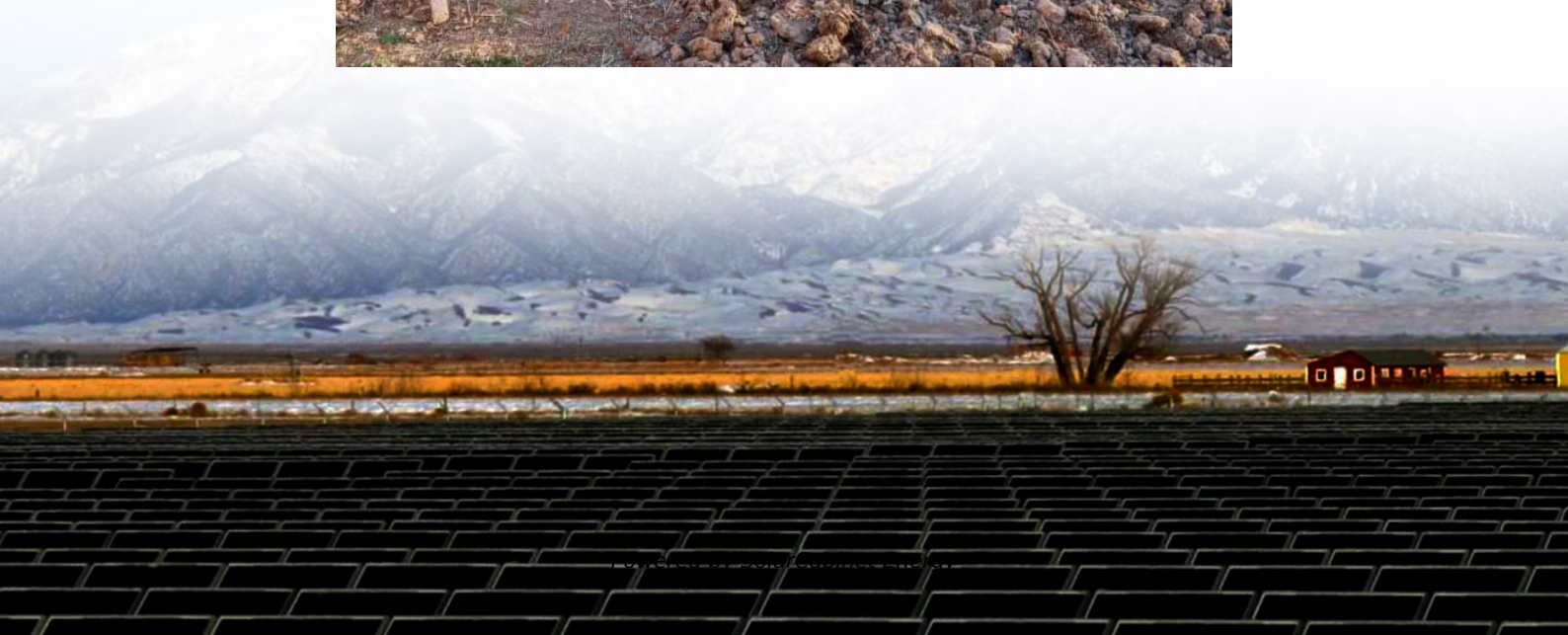


New Zealand s backup power storage policy





Overview

In March 2022, the Electricity Authority Te Mana Hiko decided to amend the Electricity Industry Participation Code 2010 to enable energy storage systems, like grid scale batteries, to offer instantaneous reserves. 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.

Can large-scale battery storage help balance New Zealand's grid?

Transmission system operator Transpower also published studies in 2017 that showed the potential value of large-scale battery storage for balancing New Zealand's grid and in 2019 that showed the potential value of distributed storage.

What is New Zealand's first power supply?

The country's first 1MW/2.3MWh BESS, using Tesla Powerpack 2 equipment, was connected in 2016 at the distribution level by Vector, another of New Zealand's 29 electricity distribution companies.

How much does a battery cost in New Zealand?

The mean charging spot price was \$123/MWh and the median was \$132/MWh. As New Zealand electrifies, more grid-scale batteries will support the growing renewable energy supply. Meridian Energy is building a 100MW (200MWh) battery near Ruakākā in sunny Northland. This battery is expected to be commissioned in September 2024.

Is New Zealand building more renewable electricity?

New Zealand is building more renewable electricity generation. However, renewable generation (like wind and solar) vary with the weather, so



renewable electricity supply may not match up with demand. Grid scale batteries soak up excess renewable electricity, and then release it back to the grid when needed.

Is solar PV a viable energy solution for New Zealanders?

As solar technology advances and battery storage becomes more affordable, more New Zealanders are considering solar PV as part of their energy solution. A solar PV system can operate on its own, supplying power directly to a home or business. However, many systems are also connected to the wider electricity network.



New Zealand's backup power storage policy



[New Zealand's first grid-scale battery energy storage system](#)

The 100 MW storage system, which will be operated by Meridian Energy, aims to improve the stability of New Zealand's national grid, as intermittent renewable power generation increases ...

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