

New Zealand Energy Storage Battery Standards





Overview

EECA has supported the development and release of a new Publicly Available Specification (PAS) that gives Kiwi homeowners a clear, practical guide to choosing and using solar energy and battery storage at home. Will New Zealand invest in battery energy storage systems?

The Electricity Authority Te Mana Hiko has published a draft two-year roadmap that sets out our work to support investment in battery energy storage systems (BESS). BESS will become increasingly important in the future as New Zealand's power system relies on more intermittent and variable generation. Work set out in the roadmap includes:

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 a battery energy storage system (BESS)?

Over recent years, it has become common for utility-scale solar projects in Australia to include a grid-scale battery energy storage system (BESS) to provide energy generated by the solar farm to the grid outside of the times when the sun is shining.

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.

What is a battery energy storage system?

BESSs enable electrical energy to be stored and then injected into the power



system when it is needed most. This ensures that homes and businesses are powered even when the sun does not shine or the wind is not blowing. Battery energy storage systems (BESSs) are the most common new form of ESSs in New Zealand.

How much tax does a battery cost in New Zealand?

ed to pre-tax at 28% tax rate.¹² Residential battery cost of capital 5% - no tax applicable to residential income, however n cost of system. CASE STUDIES We researched the applications where batteries could be used in New Zealand, and the additional services th



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Looking to install residential solar? Let our free guidelines shed

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[Battery energy storage systems roadmap released](#)

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European Warehouse



ONE-STOP SOLUTION

65kWh 30kW

130kWh 30kW

130kWh 60kW

[Codes and Standards for Energy Storage System ...](#)

BRIEFING SUMMARY The U.S. Department of Energy's Office of Electricity Delivery and Energy Reliability Energy Storage Systems Program, with the support of Pacific Northwest National ...

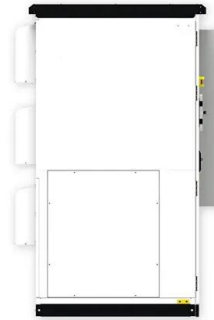
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Australian/New Zealand Standard

Electrical installations -- Safety of battery systems for use with power conversion equipment AS/NZS 5139:2019 over Supply Systems and Equipment. It was approved on behalf of the ...



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BATTERY STORAGE 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 ...

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[A regulatory roadmap for battery energy storage systems](#)

EECA sets minimum energy performance standards and labelling for residential, commercial, and industrial energy products, processes and systems sold in New Zealand.

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Solar standards update

A number of changes are taking place internationally to construction practices for solar, which requires current construction practices to be updated to improve electrical safety ...

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[Solar + BESS: An answer to New Zealand's electricity](#)

The uptake of BESS in New Zealand is particularly important given that it can help to solve one of New Zealand's biggest energy challenges - meeting peak demand. In recent ...

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Hydrogen standards review

This report was prepared by Standards New Zealand following a technical standards review. The review resulted in a suite of hydrogen and related equipment standards recommendations, ...

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[Approved batteries , Clean Energy Council](#)

This list contains over 750 lithium-based batteries that meet industry best practice requirements as described in the Battery Safety Guide including international battery safety standards and ...

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Standard Number: DZ 8156

Standards New Zealand expects this PAS to be used by householders, government agencies - such as the Energy Efficiency and Conservation Authority (EECA) - suppliers and installers of ...

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[Meridian completes 200MWh Ruakaka BESS in New Zealand](#)

Meridian anticipates that the BESS will generate annual revenues of up to US\$35 million. Image: Meridian Energy. Meridian Energy, a New Zealand state-owned energy ...

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[Regulatory roadmap for battery energy storage systems](#)

We have developed a regulatory roadmap that sets out the BESS-related work we are doing over the next two years. This consultation sought feedback on this roadmap, and ...

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[Energy Storage System Guide for Compliance with Safety ...](#)

One of three key components of that initiative involves codes, standards and regulations (CSR) impacting the timely deployment of safe energy storage systems (ESS). A CSR working group ...

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[WHY ARE BATTERY ENERGY STORAGE SYSTEMS ...](#)

Fortunately, this hurdle may soon be overcome due to the plummeting costs of battery storage, as outlined in a new report from the International Energy Agency (IEA).

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WHY ARE BATTERY ENERGY STORAGE SYSTEMS IMPORTANT IN NEW ZEALAND

Why are battery energy storage systems important in New Zealand? There is growth in renewable energy generation as New Zealand moves to a low carbon economy. But renewable energy ...

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[U.S. Codes and Standards for Battery Energy Storage ...](#)

This document provides an overview of current codes and standards (C+S) applicable to U.S. installations of utility-scale battery energy storage systems. ...

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Australia adopts international product standard for battery storage

Battery storage is becoming a key part of Australia's energy future, with homes and businesses increasingly installing lithium-based products and systems. With this shift ...

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