PDEOZE PowerContainer

# New Zealand rooftop solar energy storage project

## Overview

New Zealand’s Environmental Protection Authority (EPA) has issued resource consents for a utility-scale project combining a 179-MW solar park with a co-located battery energy storage system (BESS) on the North Island.How much solar power will Auckland's rooftops generate?

With a total land area of 93 hectares and 63 megawatts of capacity, the solar plant will generate enough renewable energy to power approximately 13,000 homes. We explore how this land area could be distributed on Auckland’s rooftops.

How can solar power help New Zealand achieve a zero-carbon future?

Locally generated solar power is key to resilient, sustainable cities and New Zealand’s transition to a zero-carbon future. Decentralised renewable energy, especially building-integrated solar power, brings power generation closer to consumption.

What is the Darfield solar & energy storage project?

The Darfield Solar & Energy Storage Project is a landmark 117 MW solar development in Canterbury, New Zealand, featuring optional battery storage of up to 106 MW / 200–400 MWh. Designed for a 40-year lifespan, it will generate 210 GWh annually—enough to power 23,000 homes—while reducing carbon emissions by 12,000 tonnes.

Can solar panels improve resilience in New Zealand?

For instance, integrating solar panels into schools, public buildings, hospitals and homes would enhance resilience, especially for our most vulnerable populations. While there are already some projects of this type through the New Zealand Solar Schools Project and Community Renewable Energy Fund, much more could be done.

Could a solar power plant help New Zealand get through cold snaps?

At the national scale, the water flowing into hydro lakes could be held back in the dams to meet evening peaks in demand when solar is no longer available. SolarZero’s virtual power plant, made up of thousands of home batteries, is already helping New Zealand get through cold snaps by feeding electricity to the grid.

Which Auckland buildings have the same land area as New Zealand's largest solar farm?

The rooftops of 14 of Auckland’s largest buildings have the same land area as New Zealand’s largest solar farm.Andrew Burgess, CC BY-SA The map above applies the total land area of the solar farm to 14 of the largest building rooftops in Auckland.

## New Zealand rooftop solar energy storage project

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