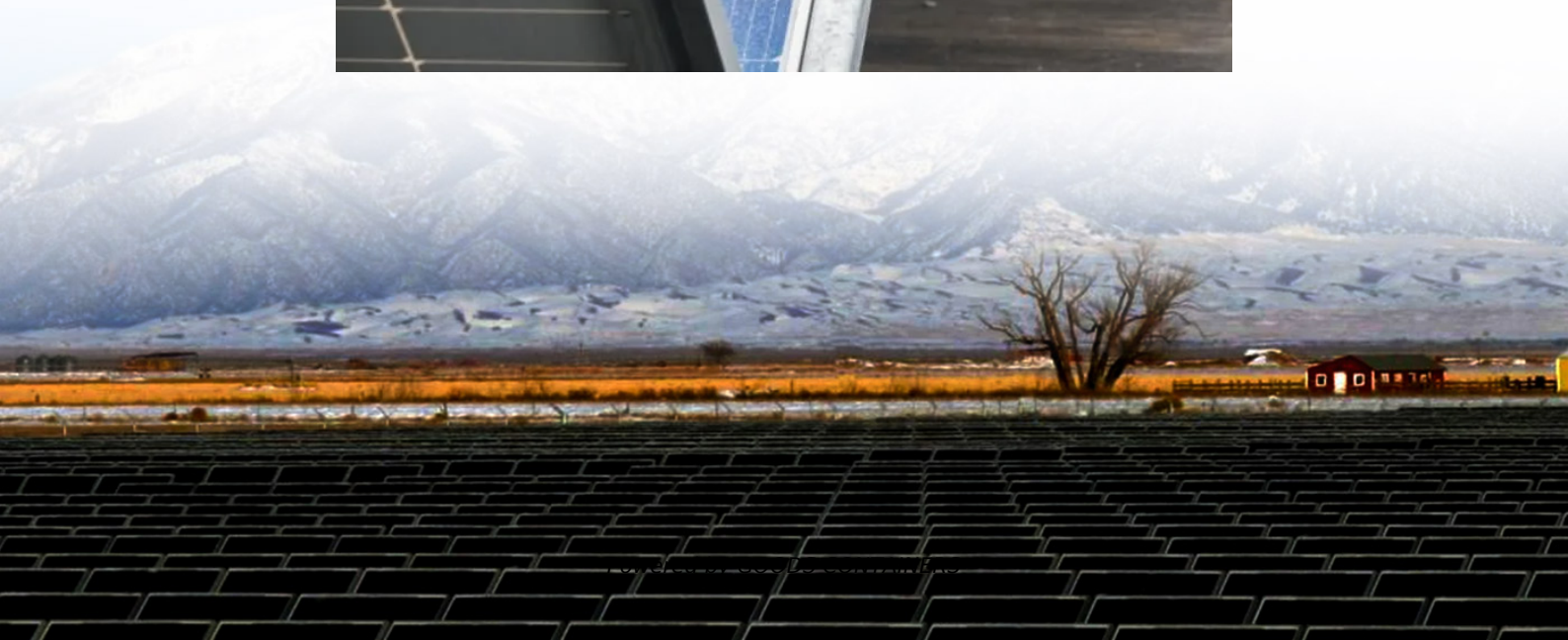


# **New Zealand wind power generation system**





## Overview

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Why is wind energy important in New Zealand?

National policy recognises that wind energy forms an important cog in New Zealand's wider electricity generation system. New Zealand has an energy strategy with a government target (in 2024) of doubling electricity generated from renewable sources by 2050.

Can New Zealand use wind for electricity?

New Zealand's strong wind resource makes our wind farms among the most productive in the world. The potential to use wind for electricity generation exists in every region of New Zealand, although cost effective wind generation depends considerably on a variety of commercial, technical, and environmental constraints.

What are expected generation profiles for potential wind and solar sites in NZ?

This study investigates expected generation profiles for potential wind and solar sites in NZ. Expected generation is modelled using weather data and assumptions for conversion of wind speed and solar irradiance to generation output. This is a simple model assuming standard wind turbines and solar panels.

Is wind energy cost effective in New Zealand?

Consequently, any form of electricity generation must be cost effective. the fuel supply for wind farms, the wind, is renewable and abundant in New Zealand, and it is not reliant on ongoing exploration. Unlike water, it is not in demand for other purposes such as irrigation, conservation and recreation.



## New Zealand wind power generation system

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