



Protecting our climate

# Renewable Energy Projects



## New Zealand Wind Power Generation

This project aims to provide an alternative to non-sustainable power sources in New Zealand. It will offset approximately 100,000t/CO<sub>2</sub> annually.

## Technology partners

Meridian Energy

## Country

New Zealand

## About your project

Located north of the Manawatu Gorge in the North Island of New Zealand, Te Apiti Windfarm is situated across 1,150 ha of farmland. It is the first New Zealand wind farm to use megawatt-class machines. Each of the 55 turbines produces 1.65 MW, capable of generating enough power for up to 900 average homes, or up to 45,000 average homes in total for the wind farm. Wind power gives New Zealand greater diversity in electricity generation, and helps reduce greenhouse gas and other harmful emissions. This project has also been certified as being Gold Standard compliant.

This project is ideally located to harness consistently high wind speeds that rarely exceed the range in which the wind turbines can operate. Since the turbines began supplying power, Te Apiti has been operating at an average of 45% of maximum capacity. This compares with an international average of 30%. This project is remotely monitored and controlled by a generation control team based in the South Island, and experienced local contractors are on site daily undertaking a regular maintenance programme to ensure the turbines are available to generate to their maximum capacity.

There are also plans for two further wind farms in New Zealand:  
West Wind – on the south west tip of the North Island  
White Hill – in the south of the South Island.



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## Balance is all

It's a fact of modern life that almost everything we do – flying, driving, even making a cup of tea – involves burning fossil fuels like oil, gas and coal. This in turn contributes CO<sub>2</sub> to the atmosphere and adds to global warming, the big issue now facing our generation.

All our gifts and packages recognise this by giving you a chance to balance out some of that CO<sub>2</sub>. So for every kilo of CO<sub>2</sub> you produce, we invest in projects around the world that save equivalent amounts of CO<sub>2</sub>.

These projects also benefit local communities directly in a variety of ways. Our solar and hydro schemes for example help stimulate local economies, improve health and create work, while our forestry projects recreate native woodland and valuable wildlife habitats. These are just some of the ways we're making moves on climate change.

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