

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/CO2 annually.

Technology Partner
Meridian Energy

Country
New Zealand

New Zealand Wind

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.



* The Gold Standard is an independently audited, globally applicable best practice methodology for project development that delivers high quality carbon credits of premium value.