

# Long Gully wind farm

## Project Overview

- Long Gully is an ideal site for a wind farm because it is characterised by steep, wind-swept and predominately scrub covered slopes in a relatively isolated location.
- The proposed Long Gully wind farm would consist of two rows of Windflow 500 turbines: one row of up to 17 turbines along the western side of Te Kopahou Ridge (to the southwest of the Radar Station) and another row of up to 8 turbines on the west side of Long Gully. The maximum output capacity would be 12.5 megawatts.



Map showing Long Gully site



Windflow 500 Turbine at Te Rere Hau

The two-bladed Windflow 500 turbines are 47 metres to rotor-blade tip and 33 metres rotor diameter, similar in height to the Brooklyn turbine. However, the modern Windflow 500 kW turbine has more than double the capacity of the Brooklyn turbine which makes the Windflow turbine very efficient.

A positive effect of the proposed wind farm is the creation of a sustainable electricity source close to consumers. The power produced by Long Gully will go direct to the local network – not the National Grid. If there are 25 turbines, the annual electricity output would be equivalent to the power consumed by 5,000 to 6,000 homes in a year.

Small project  
+  
Small scale  
turbines

=

Reduced  
environmental  
effects  
+  
Benefits of a  
renewable source  
of energy