

# Kaiwaikawe Wind Farm project details and status

## SITE DETAILS

The site has been chosen for a variety of reasons:

- good, consistent wind resource
- location – the upper North Island would benefit from additional local generation and is close to the major load centre of Auckland
- site characteristics including existing farmland, and being in an area which is relatively sparsely populated with sufficient road access to support construction and long-term maintenance activities
- proximity to the Dargaville substation - the project would connect into the Northpower substation on Gordon Street, Dargaville enabling access to the electricity transmission network

The **site boundary** is the property boundary for the Pamu Farms site where the wind farm will be located.

The **project envelope** is the area within the site boundary that the wind turbines and other associated infrastructure could be placed (such as roads and cables.)

The **connection corridor** is where the 33kV underground cable connecting the northern cluster to the southern cluster could be placed.

The **indicative turbine layout** is an example layout depicting the largest number of turbines that could be constructed. The actual constructed layout may differ to this once the final turbine is selected and detailed design activities are completed.

The **area for site facilities** are locations on the site where site facilities could be located, such as substations, operations and maintenance buildings and construction offices.

The project envelope and transmission corridor have been designed to narrow down where infrastructure will be placed but still allow enough flexibility for the layout and design to be optimised closer to construction. The project envelope has been optimised to minimise environmental and ecological impacts.

## Network Connection

The project will connect to Northpower's electricity substation in Dargaville via a 66kV overhead line, although this does not form part of the resource consent application being sought by Mercury as it is a permitted activity under the District Plan.



## PROJECT STATUS

Mercury received resource consent from the Kaipara District Council in March 2022. As part of the Resource Consent Application Mercury completed a comprehensive Assessment of Environmental Effects (AEE).

The AEE included studies on the various environmental aspects of the development such as, but not limited to:

- Archaeology & heritage;
- Avifauna & ecology;
- Planning;
- Noise & acoustics;
- Heritage & cultural;
- Landscape & visual;
- Transport;
- Civil & earthworks;
- Economics;
- Radio and communications; and
- Aviation.

Mercury is continuing to develop this project.

A map of indicative turbine positions is on page 3, and map of the project envelope on page 4.





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 Client: Taranui Wind Power Ltd.  
 Scale: 1:45,999  
 Drawing Title: Site  
 Job No. 4109  
 Drawing No. North  
 Revision A  
 Issued For  
 By / E: Check SC  
 Date: 23/11/21  
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**Key**

- Permanent Met Masts
- Site Boundary
- Connection Envelope
- Project Envelope
- No turbine areas - Other
- No turbine areas - Ecology

**Projection**  
 NEW ZEALAND TRANSVERSE MERCATOR  
 GDA2000 NZSD 2020

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By/E	Client	Scale:	Drawing Title
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Date	Job No.	@ A3	Revision
16/08/21	4109	North	A
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	<b>Kaiwaikawe Wind Farm</b>		

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