

Omamari Wind Farm

Factsheet
Edition

1

September
2020

The proposed Omamari Wind Farm site is located in hill country, roughly 2-3km inland from Ripiro Beach and approximately 10km north-west of Dargaville, in the north island of New Zealand. The wind farm will generate approximately 73MW of wind energy.

The area proposed for the wind farm is located on Pamu Farms land off Babylon Coast Road. The proposed project will consist of up to 19 turbines, up to 220m height and will be capable of delivering approximately 73 megawatts of renewable energy.

Why Omamari?

The Project site has been chosen for a variety of reasons:



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

Project Overview

Project Status:
In Development

Maximum capacity:
Approximately 73MW (proposed)

Location:
10km north-west of Dargaville

Turbines: Up to 19 wind turbines

Blade Tip Height: Up to 220m above ground level

Transmission Connection: 66kV from wind farm site to Dargaville substation

How far along is the project?

Tilt Renewables is undertaking field surveys and assessments required to inform the project envelope of the Omamari Wind Farm.

When could construction start?

It is anticipated that construction of the Project could begin in late 2021 / early 2022.

Who is Tilt Renewables?

Tilt Renewables is an experienced owner, operator and developer of wind and solar farms in New Zealand and Australia.

We own and operate seven wind farms which generate enough clean energy to power around 320,000 homes and save the emission of around 870,000 tonnes of carbon annually. We also have two wind farms under construction. When complete they are expected to generate enough clean energy to power around 315,000 homes and save the emission of 1.65 million tonnes of carbon annually. We have an office in Melbourne with a team of around 40 people, along with a small team working out of our office in Tauranga, New Zealand. We have a strong commitment to the towns and regions where we work.

What environmental assessments are underway?

Tilt Renewables is in the development phase of the Omamari Wind Farm. This means that field surveys and assessments are currently underway to inform the project envelope of the wind farm and the resource consent application as a whole.

These detailed site-specific investigations enable assessment of the potential impacts of the Project and optimisation of the project envelope to ensure potential impacts are minimised.

During the consenting phase, consideration is given to the various environmental aspects of 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.

Will I be able to hear the turbines?

Like almost anything that moves – the ocean, tractors, cars, the wind itself – wind turbines do create sound. The sound they make can be described as a cyclic whooshing or swishing sound. In most cases, it is possible to carry on a conversation at the base of a wind turbine without having to raise your voice. At more distant locations, noise levels and character can vary depending on the shape of the land, the position of the listener and the speed and direction of the wind.

Detailed noise studies are undertaken during project development to ensure that noise will not negatively impact on local residents. We are required to meet strict noise requirements which are outlined in the Kaipara District Plan and the New Zealand noise standards. We also monitor noise to ensure we are meeting our requirements during operation of the wind farm.

What is the Project Envelope?

The map at right shows the project envelope, the connection corridor, an indicative turbine layout and the possible locations for site facilities.

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.)

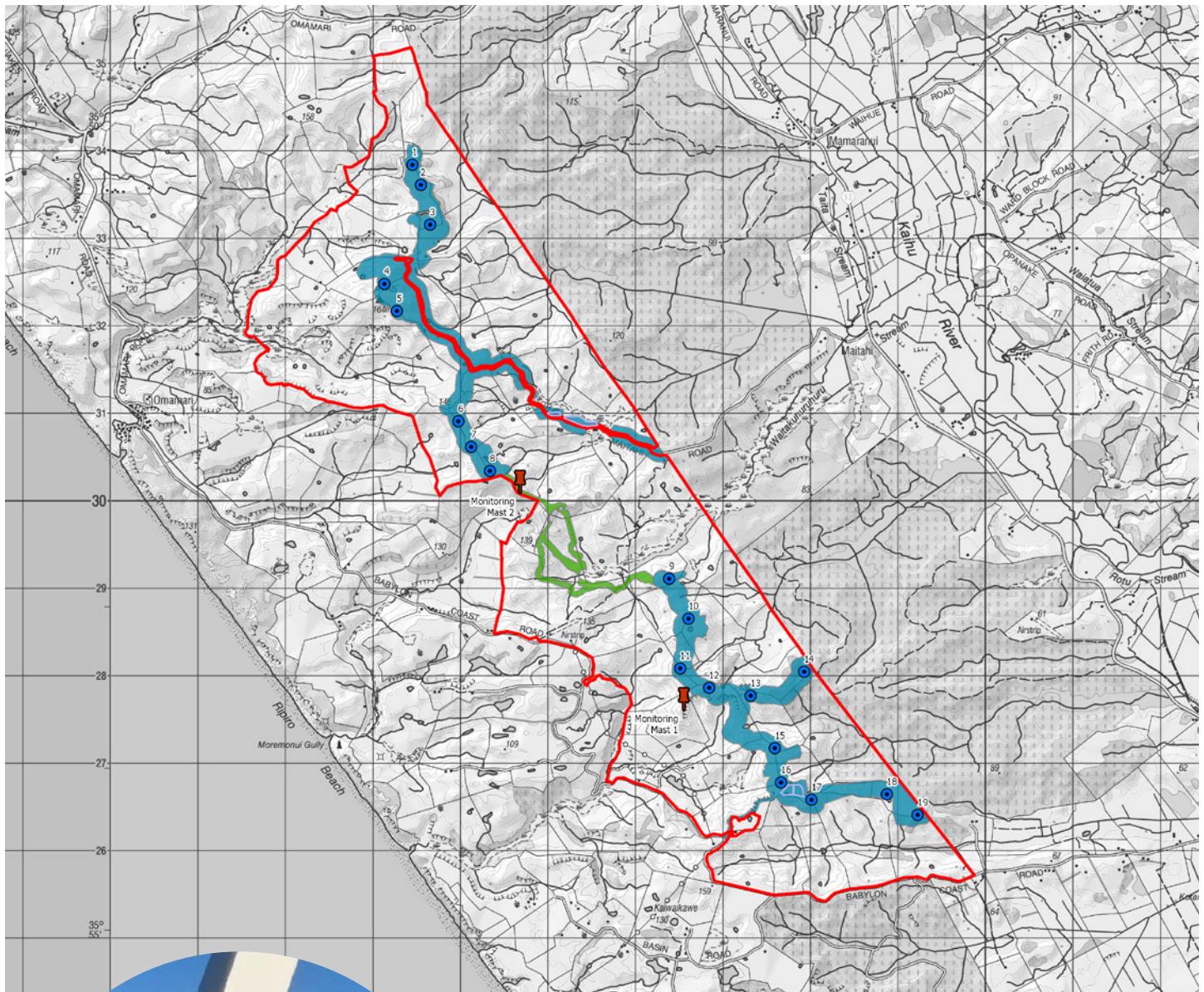
The connection corridor is where the 33kV underground cable connecting the northern cluster to the southern cluster could be placed.

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 site boundary is the boundary of the Pamu Farms property where the wind farm will be located.

The project envelope and connection 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.



- Indicative Turbine Layout
- Permanent Met Masts
- Site Boundary
- Area for Site Facilities
- Connection Corridor
- Project Envelope

Projection

NEW ZEALAND TRANSVERSE MERCATOR
DATUM: NZGD 2000



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How will the project connect to the grid?

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 Tilt Renewables as it is a permitted activity under the District Plan.

What will the wind farm look like?

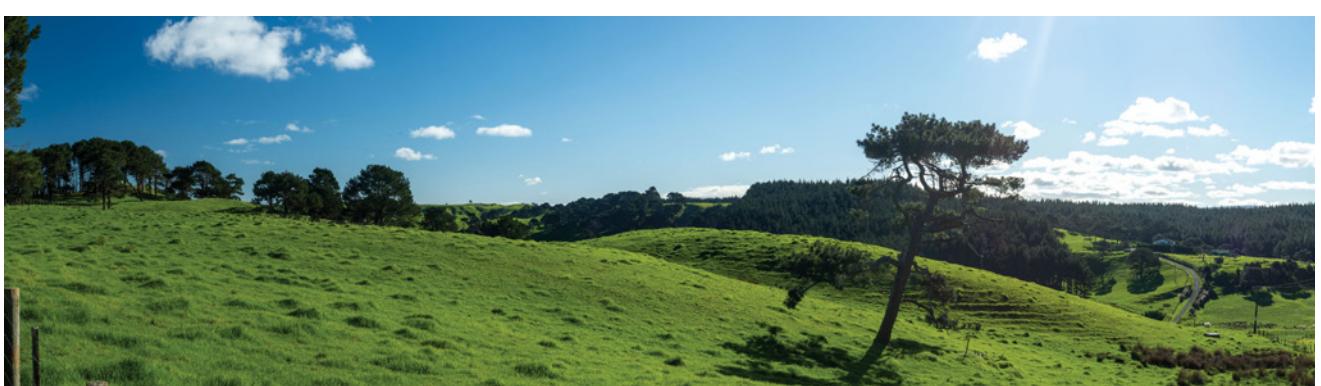
Tilt Renewables has prepared photo simulations to depict what the wind farm will look like if designed to the maximum proposed turbine size and turbine numbers from various viewpoints.



View from Babylon Coast Road - existing



View from Babylon Coast Road - existing



View from Babylon Coast Road - existing

The included photo simulations are from a larger series of photo simulations from various view points in the area.
To see the other photo simulations please go to the project web page www.omamariwindfarm.com



View from Babylon Coast Road - proposed



View from Babylon Coast Road - proposed



View from Babylon Coast Road - proposed

The met mast that can be clearly seen in the included photo simulations will be installed at construction and has been modelled to be 140m in height.

What is the process for project consent?



Tilt Renewables will prepare an application including an assessment of environmental effects (AEE). This will then be submitted to the Kaipara District Council, who will consider the application and then put it on public notice. The Council will advertise the Project in the newspaper and will call for written statements (submissions) from the general public. The Council will also send copies of the application to all stakeholders who may be affected by the proposed activity.

Following the submissions period (~20 working days), a hearing will be held to provide Tilt Renewables and anyone who has made a submission, an opportunity to express their position on the application. The decision-makers on behalf of the Council will then complete their assessment and issue a decision on the Project.

For more information on the consent process, please visit: bit.ly/35m2Rge

Project Benefits

The proposed Omamari Wind Farm will support the delivery of economic development and environmental objectives within the Kaipara region.

There will be a range of environmental, economic and social benefits including but not limited to:

-  Create an opportunity for **local employment** during construction and full-time staff during the operating life of the wind farm (~30 years).
-  Enough **electricity generation** to power up to 25,000 homes each year.
-  **Assist New Zealand** to increase the proportion of electricity it generates from renewable energy sources and achieve its climate policy ambitions.
-  The establishment a **Lend a Hand Foundation** which is a community investment fund to support local initiatives, clubs, associations and needs in the region.
-  **Secure income stream for farmers** and their community.

Employment

A Wind Farm brings many direct opportunities for employment to the region during both the construction phase and ongoing operations once the Wind Farm is commissioned.

The Omamari Wind Farm will create an opportunity for local employment during construction and full-time staff during its operating life.

Flow on employment benefits are also achieved as the Project will bring demand for local business services and consumer goods.

Most regions have a range of businesses that will provide services to a wind farm project.

These include:

- Domestic scale electricians
- Transport operators
- Competent machine operators
- General labourers
- Quarries
- Concrete suppliers



To register interest in providing goods or services for the Omamari Wind Farm project please visit the project website: www.omamariwindfarm.com





Thank you

Image: Tilt Renewables and community members celebrate the commencement of construction of Waipipi Wind Farm with a sod turning ceremony.

Community

Tilt Renewables is committed to taking a flexible approach to consultation that will seek to understand the communication and consultation needs of the community. We are committed to:



Providing opportunities for the community and stakeholders to ask questions, provide feedback and ideas, and participate in decision making



Maintaining an **open and honest dialogue** with all stakeholders



Building **strong connections** with the community



Providing **timely responses and feedback** to the community's concerns, with the intention of using this feedback to positively influence the development of the Project where possible.



Enhancing community **acceptance and trust**

If you have any concerns or believe you can provide local insight into matters which we should address through the development of the project don't hesitate to contact us.

Benefit sharing

Tilt Renewables is committed to enhancing the communities it works alongside by offering community benefits for all of our projects, including the Omamari Wind Farm.

We will work with the community to ensure any funding is distributed in a way that addresses key social, economic and environmental needs in the region and that is sustainable to and supported by the community.

Community Fund – Lend a Hand Foundation

Tilt Renewables is committed to developing the Lend a Hand Foundation which is a community investment fund, run by a community-led group, to support local initiatives, clubs, associations and needs in the region.

The Lend a Hand Foundation will be developed when construction of the Project commences and will operate upon commencement of commercial operations. It will run for the life of the wind farm. Further information relating to benefit sharing will be communicated progressively.

**Subscribe to receive
the newsletter by email**



We encourage everyone in the community to subscribe to the newsletter. Sign up by emailing us at: omamariwindfarm@tiltrenewables.com

Questions?

If you have any questions, get in touch by calling: **0800 WE TILT (938 458)**

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