



Waverley Wind Farm

Newsletter
Edition

02

July
2019

Key facts

Installed capacity:
130MW

Annual production:
450 GWh per year

Wind turbine type:
SWT130 – 4.3MW

Number of turbines:
31

Tower height:
95 metres

Blade height:
160 metres

Rotor diameter:
130 metres

Site area:
980 hectares

Transmission line :
Eleven kilometres of 110kV overhead transmission on monopoles

Construction Timeframe:
Approximately 18 months

Project status

- Currently undertaking wind farm design, finalising connection agreement, transmission line and substation design, and preparing management plans (to manage construction impacts)
- Upgrade of site access roads to commence August 2019
- Site construction scheduled to commence October 2019 (subject to Board approval)

The project

The Waverley Wind Farm project is located approximately six kilometres south-east of Patea and eight kilometres south-west of Waverley, in South Taranaki.

This site was previously the Waverley iron sand mining site. The wind farm will comprise 31 4.3-megawatt wind turbines and will be connected to the national grid via an 11-kilometre 110kV transmission line to Transpower's Waverley Substation.

Once the wind farm is completed the amount of land impacted from the turbines and associated infrastructure is about two per cent of the total land area.



Waverley Wind Farm transmission line

The transmission line is 11 kilometres long and will consist of concrete and hardwood monopoles.

In accordance with the consent conditions, 17-metre monopoles (14 metres above the ground level) will be used along Swinbourne Street and Fookes Street. Monopoles up to 22 metres above the ground level will be used for the remainder of the route.

During the planning and approval phase of the project, several proposed transmission line routes were investigated. This included the review of environmental, planning, safety and social impacts, as well as active engagement with local land holders who would potentially be impacted by each proposed route. The final route and transmission line design was granted resource consent through a publicly notified hearing process in 2017.



Local employment

Tilt Renewables is committed to supporting the local community through employment at the Waverley Wind Farm.

During the construction phase there will be main contractors carrying out the civil, electrical, transmission line, turbine erection and commissioning works. Opportunities will exist to support these main contractors through subcontracting arrangements by persons skilled in particular areas, such as civil and electrical contracting, fencing, environmental services, transport operators and others. Registrations of interest can be lodged through the Goods and Services Register at www.waverleywindfarm.com.

Community engagement

Tilt Renewables is focused on engaging with the community to ensure there is transparent and open communication.

A Community Consultative Group has been established and is made up of different representatives from within the Waverley community. The objective of the Consultative Group is to facilitate information flow between Tilt Renewables and the community and will be an ongoing point of contact for the community.

The Consultative Group will have several functions, including acting as a forum for relaying community concerns about the project's construction and ongoing operation to Tilt Renewables, developing acceptable means (where possible) of addressing and managing those concerns, and reviewing the implementation of measures to resolve and manage community concerns.

Registrations of interest to join the Community Consultative Group can be lodged on the Tilt Renewables Waverley Wind Farm website: www.waverleywindfarm.com or by emailing: waverleywindfarm@tiltrenewables.com



Mahinerangi Wind Farm Public Open Day

Waverley Wind Farm Frequently Asked Questions

Who will be operating the wind farm?

Waverley Wind Farm Limited, a fully owned subsidiary of Tilt Renewables Limited, will own and operate the wind farm once operational. Tilt Renewables is an owner, operator and developer of renewable generation assets across Australia and New Zealand, primarily consisting of wind, solar and storage projects.

Tilt Renewables has an existing asset base of 322 operating turbines across seven wind farms. The portfolio includes New Zealand's largest wind farm, the Tararua Wind Farm in Palmerston North, as well as the Mahinerangi Wind Farm in Otago and the Snowtown Wind Farm, South Australia's largest and Australia's second-largest wind farm. Tilt Renewables is currently constructing the 80-turbine Dundonnell Wind Farm project in Victoria, Australia. The project commenced construction in January this year and is expected to be operational in the last quarter of 2020.

Isn't renewable energy expensive and unreliable?

Power prices are too high and that's why we're investing in renewable energy in New Zealand to help keep energy not only clean and reliable – but also affordable. Wind energy is, in fact, the most economical form of renewable energy.

How can the community have their say?

Tilt Renewables is committed to open and honest dialogue with all stakeholders, with the aim to build and enhance community acceptance and trust in all projects and in the renewable energy industry. Your feedback is welcome if you have any concerns or believe you can provide local insight into matters which we should address as we enter this next stage of the project.

Are there any benefits to the community?

Tilt Renewables is committed to providing support for the local community through community benefit programs. A community fund will be established when construction of the project concludes and will be administered by a community-led group. During construction we will commence work on establishing this group. Further information will be made available as the project proceeds towards construction.

Can renewables provide large-scale power?

Yes! The Waverley Wind Farm will produce enough clean energy each year to power more than 65,000 homes and save the emission of roughly 270,000 tonnes of carbon. This is the equivalent of removing about 56,000 cars from our roads.

Are turbines noisy?

Modern wind turbines make relatively little noise. The level of sound can vary considerably depending on the shape of the land, the position of the listener and the speed of the wind. In most instances, it is possible to carry on a conversation at the base of a wind turbine without having to raise your voice.

The sound that a modern wind turbine produces is most commonly described as a cyclic whooshing or swishing sound.

Extensive assessments are undertaken through the design of the project to ensure that noise will not negatively impact on residents. Additionally, once the project is operational, Tilt Renewables will undertake monitoring to ensure the wind farm is meeting the required standards.

After construction is finalised and the wind farm is operational, what will happen to local roads?

It is important to Tilt Renewables to leave local amenities in better condition than they were found. This means local roads will be upgraded to an improved standard and proper clean up works will be undertaken.



Waverley Wind Farm Transmission Line Frequently Asked Questions

How many poles will there be?

Detailed design of the transmission line is currently being undertaken so the exact number of poles is still not known, however, it is likely that there will be approximately 100 poles over the 11-kilometre route.

How big will they be and are they all the same?

In accordance with the consent conditions, 17 monopoles (14 metres above the ground level) will be used along Swinbourne Street and Fookes Street. Monopoles up to 22 metres above the ground level will be used for the remainder of the route. The transmission line will be a single circuit transmission line consisting of three wires plus a wire for telecommunications. While some poles might require guy wires for support, the majority of poles will be designed to be free-standing.

Why can't it be underground?

Transmission lines can be underground. However, it is often cost prohibitive to install transmission or distribution lines underground for the distances contemplated by many projects of this nature. There could also be a significantly greater environmental impact installing a transmission line underground – as laying cables could impact a far greater area of vegetation or other environmentally sensitive areas due to trenching and the process of undergrounding the lines.

How long will it take to build?

Once construction has commenced, the transmission line will take about 12 months to build.

What can I expect during construction?

During construction, you can expect environmental and traffic management measures in place at the location where the work is focused. Construction will be completed in many areas simultaneously and work will not necessarily be undertaken in one direction along the transmission line – work fronts will move around along the 11-kilometre line route.



For more information, or to provide any feedback, please visit the project website www.waverleywindfarm.com

Contact us. Web: www.waverleywindfarm.com

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