



Waverley Wind Farm

Newsletter
Edition

01

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At a glance

Capacity:
130MW

Location:
8km south-west of Waverley, South Taranaki

Investment:
Up to \$300m

Turbines:
31 turbines (full site build)

Blade tip height:
160m

Other wind farm infrastructure:
Underground 33kV cables between the access tracks, turbines, onsite substation, maintenance building and temporary concrete batching plant

Transmission connection:
11km of 110kV overhead transmission line to the Waverley Transpower substation

Wind farm landowners:
Three host landholders

Land area:
980 hectares

Start date:
Construction could commence later this year

Construction timeframe:
18 months

Project status:

- Resource consents received from South Taranaki District Council and Taranaki Regional Council
- Construction could commence later this year
- Currently undertaking wind farm design, finalising of connection agreement, transmission line and substation design, and preparing management plans (to manage construction impacts)

The Waverley Wind Farm project

The site is located about eight kilometres south-west of Waverley, in a sparsely populated area predominantly used for grazing stock.

The site was previously the Waverley Iron Sand Mine. The wind farm will comprise 31 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 roughly two per cent of the total land area.

The Waverley Wind Farm will produce enough clean energy each year to power more than 57,000 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.

The planning approval for the wind farm and transmission line was granted in July 2017.



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 New Zealand and Australia, 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 the Tararua Wind Farm in Palmerston North – New Zealand’s largest wind farm – 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.

You can read more about Tilt Renewables at www.tiltrenewables.com



Waverley Wind Farm transmission line

The transmission line is 11 kilometres long and will consist of concrete and hardwood poles. In accordance with the consent conditions, monopoles - 14 metres above the ground level - will be used along Swinbourne Street and Fookes Street.

Monopoles up to 22 metres above ground level will be used for the remainder of the route.

During the planning and approval phase of the project, a number of 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 design of the transmission line (including the size and location of the poles) is influenced by numerous factors, including:

- Voltage (e.g. 66kV, 110kV, 132kV), number of circuits, conductor (the wires) type/size, security level and design life requirements;
- Line length, spans between poles, changes in direction;
- Topography;
- Structural loads due to the weight, wind, earthquake risk, ground water and others;
- Electrical safety requirements;
- Communication and earthing requirements;
- Temperature limits and fluctuations;
- Existing infrastructure constraints;
- Land access (both public and private);
- Vegetation;
- Planning requirements;
- Areas of cultural heritage significance;
- Property configurations and dwelling locations;
- Road and traffic safety;
- Drainage;
- Fire safety.



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

Local employment

Tilt Renewables is committed to employing locals where possible on the project.

During the construction phase there will be main contractors carrying out the civil, electrical, transmission line and turbine erection and commissioning works. Opportunities will exist to support these main contractors through subcontracting arrangements by persons skilled in particular areas of the project’s delivery (i.e. civil contractors, electrical contractors, fencing, environmental services, transport operators, etc.). Registrations of interest can be lodged on the Tilt Renewables Waverley Wind Farm website in the heading titled “Goods and Services Register” www.waverleywindfarm.com

Community engagement

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

Prior to the construction phase a Community Consultative Group will be established. This group is made up of different representatives from within the Waverley community and the resource consent dictates that representatives from the following groups be invited to participate:

- A representative of property owners and occupiers on local roads identified for use by construction traffic;
- An elected representative of the South Taranaki District Council;
- A delegate of the Department of Conservation (Director, Operations, Central North Island); and
- A representative each from Ngaa Rauru Kiitahi and Te Runanga o Ngati Ruanui Trust;
- Local residents.

The objective of the consultative group will be to facilitate information flow between the Tilt Renewables team and the community, and will be an ongoing point of contact between the consent holder and the community. It will also act as a forum for relaying community concerns about the construction and on-going operation of the Waverley Wind Farm to the Tilt Renewables’ team, developing acceptable means of addressing and (where possible) managing those concerns, and reviewing the implementation of measures to resolve and manage community concerns.