

Waddi Wind Farm

Fact Sheet
February
2025

Wind Turbine Design Fact Sheet



The Waddi Wind Farm is located 150 km north of Perth in the Shire of Dandaragan

The Waddi Wind Farm is a proposed renewable energy project featuring up to 18 wind turbines capable of producing up to 108 MW. The project is located about 15 kilometres north-west of Dandaragan in Cooljarloo, Western Australia.

The Project would help reduce Western Australia's carbon footprint by generating enough clean energy to power more than 68,000 homes per year. That's 286,000 tonnes in carbon emissions avoided annually. The Project would also help generate local employment and bring broader community benefits during construction and operation.

Increasing the tip height - Proposed amendment to the development application

The Project is proposing to increase the approved tip height from 180 metres to up to 220 metres to create a bigger buffer for the Carnaby's Black Cockatoo. This change will involve the addition of a tower segment for each turbine but no changes to the location, model or blades.

An amendment to the approved development application is being lodged to allow for the height increase. The development application proposes to increase the maximum hub height from 99m to up to 139m to allow for an extra tower segment. This would see the maximum blade tip height increase from 180m to up to 220m.

While the towers will be more visible, this change will not result in any change to the footprint or operational noise levels.

The proposed improvements do not result in any changes to the model, number or location of proposed turbines or other on-site structures. The project area and landholding that formed part of the previous approval remain unchanged.

Project Information:

Vestas V162.6.0
EnVentus wind turbines

108MW

Up to 18 turbines

Up to 220m tip height

15km north-west of
Dandaragan

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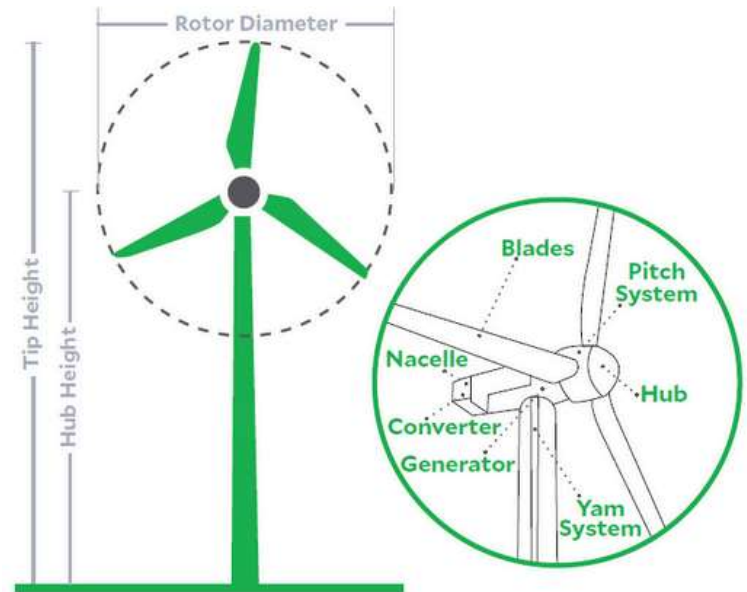


Wind Turbine Design

The proposed change only affects the height of the turbines, not the blade lengths, rotor diameter, or sweep area. This change can be seen through an increase of the hub height, increasing the ground clearance and tip height of the turbine.

While the amendment would change how some turbines look, an independent assessment found the visual impact will largely be consistent with the approved design as the amendment proposes no changes to the location or number of turbines from the approved development application.

Some turbines may be smaller than the 220m due to factors such as landscape and topography.



The proposed amendment is summarised below, with proposed modifications highlighted.

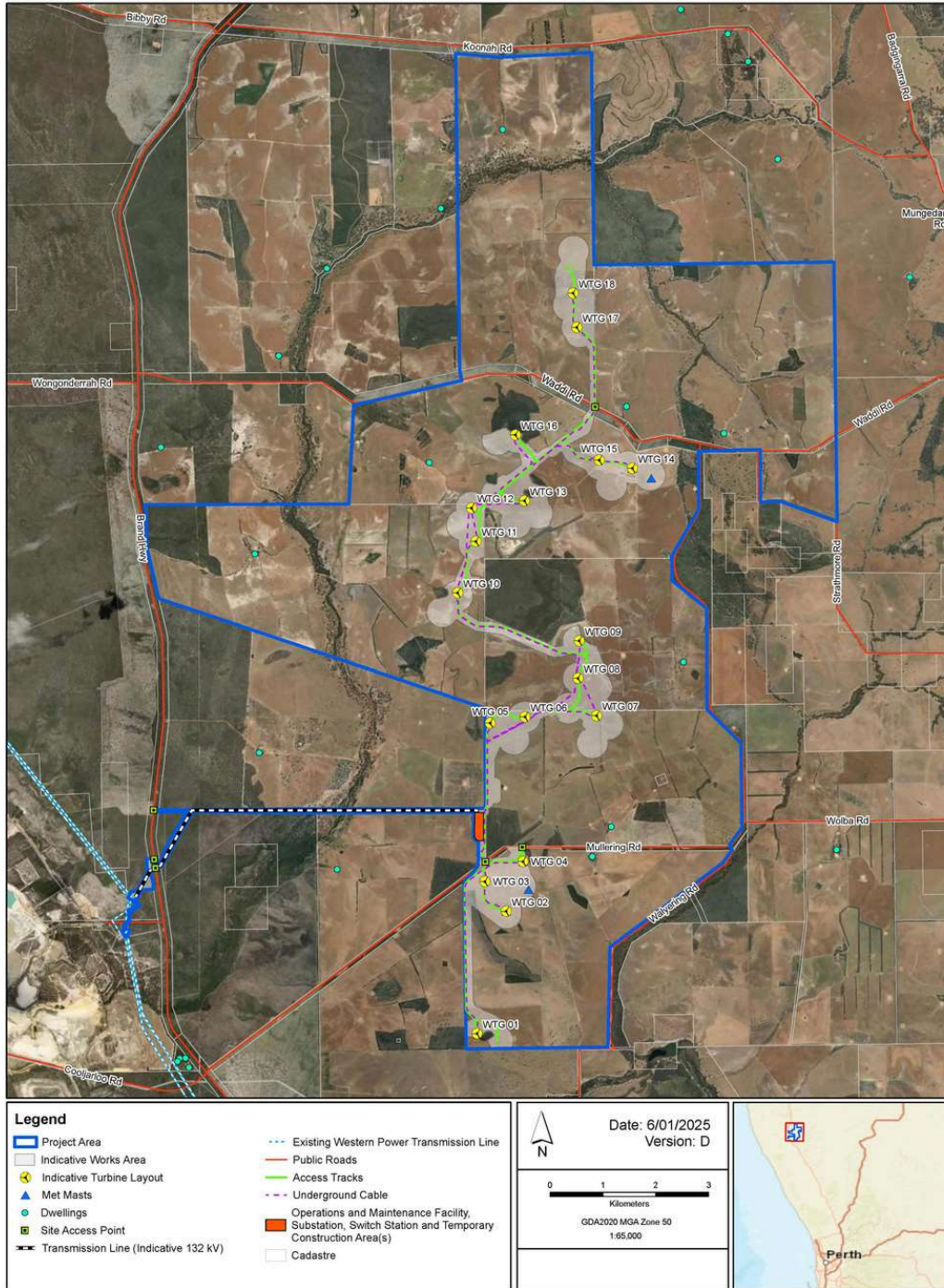
Design Parameter	Currently Approved Maximum	Proposed Maximum	Difference
Number of WTGs	18	18	No change
Hub Height	99m	139m	+40m
Tip Height	180m	220m	+ 40m
Rotor Diameter	162m	162m	No change
Ground clearances to lowest turbine tip	18m	58m	+ 40m
Indicative Capacity	108MW	108MW	No change
Turbine Model	Vestas V162-6.0 EnVentus	Vestas V162.60 EnVentus	No change

For more information please visit the project website or contact us:

Website: www.waddiwindfarm.com.au

Email: waddiwindfarm@tiltrenewables.com | **Phone:** 1800 WE TILT (1800 938 458)

Waddi Wind Farm - Indicative Project Layout



Waddi Wind Farm
Indicative Project Layout



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Frequently Asked Questions (FAQs)

Will increasing turbine height affect visual impact?

A Landscape Visual Impact Assessment (LVIA) was undertaken to assess how the taller turbines might affect the look and feel of the area. While the taller turbines will have a potential visual impact due to the increased height, the assessment found that the change in overall visual impact from the approved project design will be minimal, as there are no changes to the number of turbines and layout.

Will the electromagnetic interference (EMI) affect my TV Reception?

All television broadcasts in Australia are now digital. Digital TV signals are generally much less susceptible to interference from wind farms than analogue signals, however, it is possible in areas of low signal strength. Before construction, we study the existing television and radio reception strength in the area so that if a concern is raised, we can assess whether the wind farm is causing any issues. We are happy to help any residents who experience TV reception issues after construction of the wind farm. There are solutions available to resolve any issues

What is wind turbine shadow flicker (SF)?

Wind turbine shadow flicker happens when the rotating blades cast moving shadows, creating a flickering effect on nearby land and other sensitive areas.

Will an increase to turbine height increase flickering?

No dwellings should experience shadow flicker due to an increase in turbine height. To assess how taller turbines would affect shadow flicker, an assessment was done using the 2010 Draft National Wind Farm Development Guidelines for Australia. The study modeled the turbine setup and nearby dwellings, considering both worst-case and cloud cover-adjusted scenarios.

Will the changes made to the turbine height impact noise?

The increased tip height would not result in any change to the operation noise generated. Tilt Renewables commissioned Sonus to update the acoustic assessments to consider the height change and ensure they meet development approval conditions. The assessment concluded that the wind farm with increased turbine hub heights will comply with the applicable noise regulations. The project will also implement a noise monitoring program post-construction to ensure compliance with regulations is maintained.

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