

# FAQ

## Frequently Asked Questions

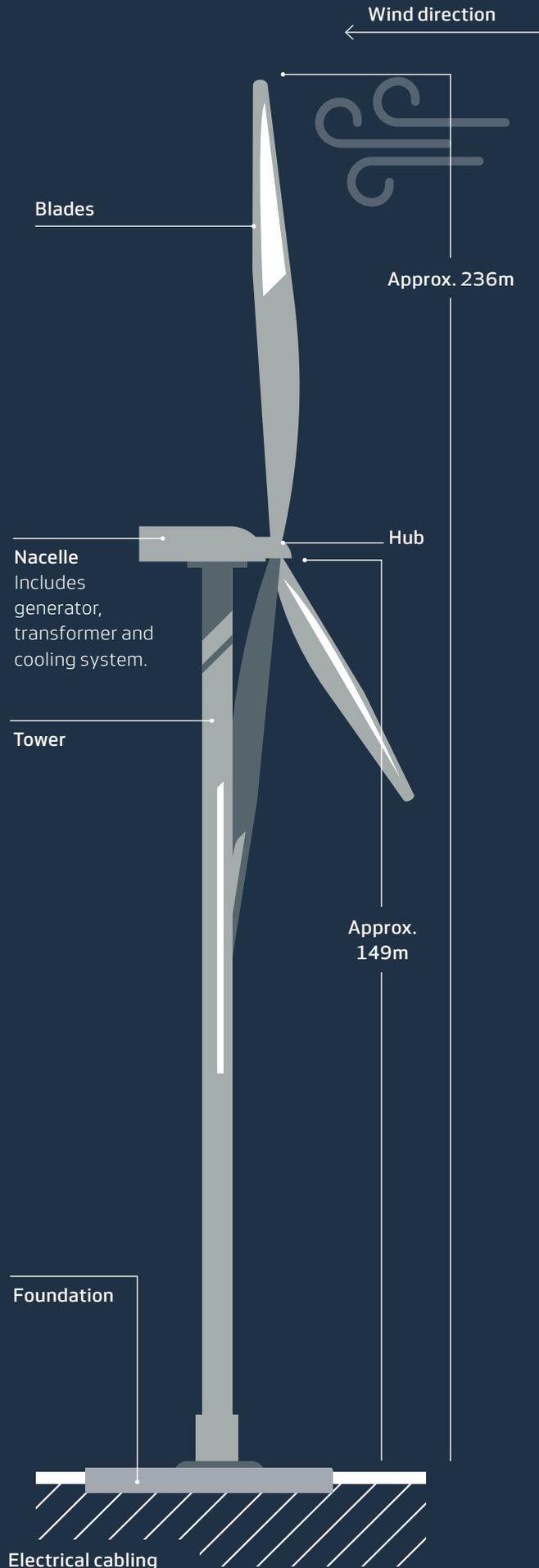
Key information about the  
Warperup Creek Wind Farm.



Wind. It means the world to us.™



# The project



## Who are we?

Warperup Creek Wind Farm is being developed and constructed by Vestas.

Vestas is one of the world's largest wind energy companies. Vestas has delivered more than 173,000 MW which is more than 90,000 wind turbines in 88 countries, which accounts for almost 20% of the total worldwide installed capacity. Vestas has been active in Australia since 2001 and employs around 800 staff in Australia and New Zealand.

Learn more about Vestas at [www.vestas.com](http://www.vestas.com).

## Why the Great Southern?

The Great Southern area has strong and consistent winds which are critical for achieving the lowest cost of energy. The WA Government has identified the Great Southern as a priority area for development of a renewable energy hub, including associated high voltage transmission infrastructure and it has good road and deep-water sea port access.

## How tall will the wind turbines be?

The project will likely utilise Vestas Enventus turbines. These have a hub height of around 149m and a maximum blade tip height of up to 236m.



>30,000

people employed worldwide



# Construction & operations

## Does the project require subsidies?

The project is not dependent on government subsidies for construction or operation. Where project finance is required, this will be procured through non-government lenders operating in the energy sector.

## Where will water be sourced from?

Water will only be required during the construction period for concrete batching and potentially dust suppression. The project will source water from local supplies, subject to availability and within development consent constraints.

## Are there any health risks associated with wind farms?

There is no published evidence that positively links wind turbines with adverse health effects, as was determined by the Australian National Health and Medical Research Centre (2015) and other leading health and research organisations globally.

40+

years of experience with wind energy



>90,000

turbines installed in 88 countries worldwide



# The project and...

## **Cultural heritage**

The project will continue to consult with local Indigenous groups and other stakeholders during construction and will engage a specialist consultant to assess potential cultural heritage impacts and mitigation measures. At all times, the project will be developed in compliance with cultural heritage protection laws.

## **Flora and fauna**

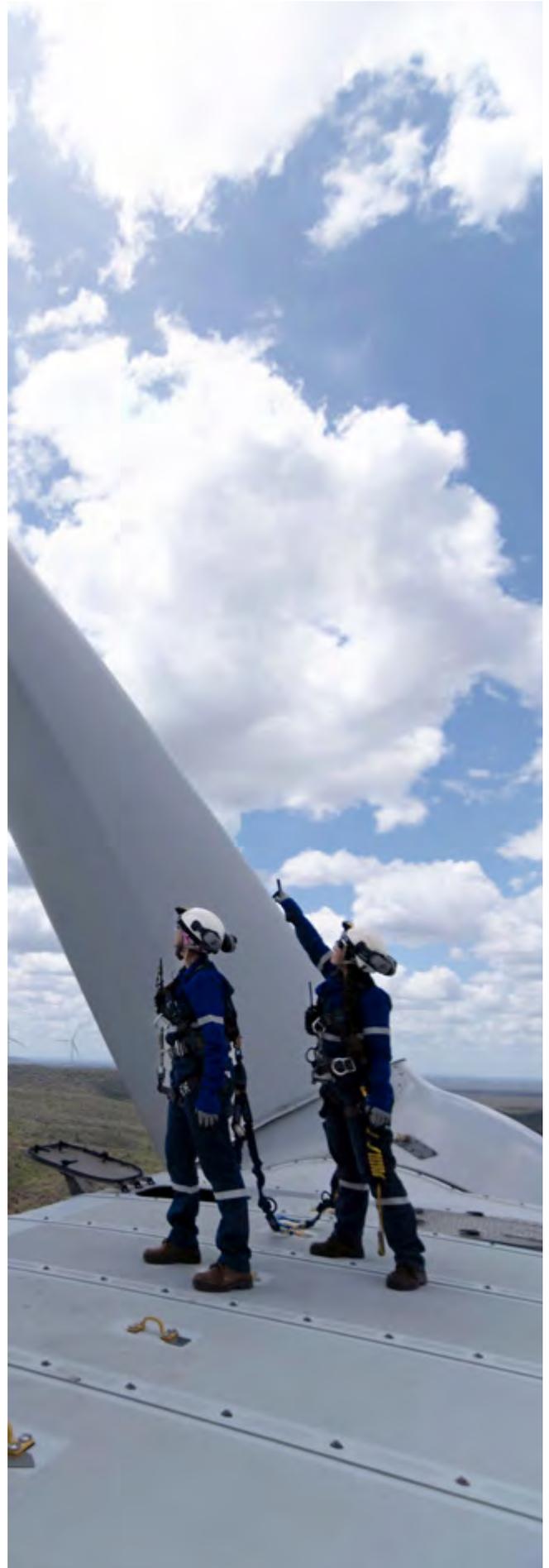
Vestas Development will engage specialist consultants to undertake detailed surveys to establish the ecological attributes of the site. Based on the survey results, the project will be designed to minimise impacts on flora and fauna. Survey results and proposed mitigation measures will be assessed as part of the project's development approval.

## **Livestock**

Wind farms complement grazing and other agricultural activities. The turbines occupy only a small amount of land, and landowners can continue their practices whilst the wind farm is operating.

## **Property values**

Several studies have found no evidence to conclude that wind farms are linked to adverse impacts on property values (see Urbis 2016 and Preston Rowe Paterson 2013).



# Wind energy

## Why wind energy?

Wind is a clean and inexhaustible resource that generates zero pollution or carbon emissions during operation, and all emissions generated across the turbine lifecycle are offset in the first year of operations. Wind farms are considered one of the cheapest forms of new electricity generation and can produce energy at a significantly lower cost than fossil fuel generation.

## How do wind turbines work?

Wind turbines convert wind into mechanical energy through blade rotation. The mechanical energy is converted into electricity via a generator in the nacelle (the housing at the top of the turbine tower). Energy generated in the nacelle is transformed to high voltage and sent to the grid.

## How long will the wind farm operate?

The proposed wind farm is expected to operate for 30 years. At the end of that period, it may be possible to replace some of the equipment and extend the project for a further period. If the period is not extended, the wind farm infrastructure will be removed and the site will be rehabilitated according to the development consent.

## Are wind turbines recycled?

Today, Vestas wind turbines are on average 85% recyclable, however Vestas is advancing an innovative solution that renders epoxy-based turbine blades fully recyclable, and Vestas has pledged to eliminate all waste in its wind turbine production by 2040. On average, the wind industry generates significantly less composite waste than most other sectors including transport, electronics and building sectors.



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