



Fact Sheet

Fire Management for Wind Farms

Tilt Renewables prioritises fire management at all our sites and coordinates closely with emergency services to keep our neighbours safe.

Experience has shown our wind farms are a low fire risk. They can also improve firefighting capability by increasing access roads and firebreaks.

Why are fires at modern wind farms rare?

Modern turbines contain internal fire suppression systems, which stop fires inside turbines. There are also monitoring systems in wind turbines that slow or stop the turbine if temperature and wind speeds are above safe levels.

In the unlikely event of a fire, the cleared pads below mean there is little fuel for the fire to spread.

If a fire travels through a wind farm, any flammable parts of the wind turbine are far above the ground and out of reach of most bushfires.

How does Tilt Renewables reduce fire risks at wind farms?

- **Early and regular engagement with fire authorities** We develop emergency management plans in consultation with the relevant state fire authority. These plans cover construction, operation, and decommissioning. They include avoiding using construction machinery on total fire ban days, reducing fuel loads directly near infrastructure, having fire extinguishers on site, and ensuring staff on site are trained for emergency situations. We also run regular exercises at our wind farms with emergency services to ensure they are familiar with the site.
- **Fire suppression systems** All our new turbines have in built Fire Suppression Systems which release a non-toxic, environmentally friendly fire suppression agent in case of internal fires.
- **Lightning protection systems** Lightning Protection Systems are installed on every wind turbine, to stop them catching fire from a lightning strike. Turbines can attract lightning and reduce tree and ground strikes that could otherwise cause fires.
- **Water for emergency services** For many projects Tilt Renewables leaves water bores on site, that were put in for the wind farm construction. These bores are made available to emergency services for fire response.



What happens if there is a fire?

In the unlikely event of a fire within a turbine, the site would be isolated and people located around the site to monitor and respond to any spot fires or falling debris.

For fires external to turbines, we can assist firefighting in several ways including:

- Providing access to internal roads on the property for fire fighters.
- Remotely stop wind turbines to assist with aerial firefighting.
- Providing additional resources or equipment to help the firefighting effort.

During a fire event, Tilt Renewables will follow the directions of the relevant state fire and emergency services.

Can aerial firefighting still occur?

Yes aerial firefighting can occur. Several fires in Australia have been fought with helicopters and fixed wing planes around wind farms.

Our operations team are in direct contact with emergency services and can immediately halt the operation of the wind farm to allow safe aerial firefighting around the turbines. Experience has shown that the best position to stop turbines in is a 'Y' shape because it maximises airspace between turbines.

Can transmission lines cause a bushfire?

Transmission lines, managed and maintained properly, are a very low fire risk. This is due to the height clearance between the transmission lines and the ground, as well as the managed vegetation beneath the lines that runs for the length of the line.

Transmission lines are also shut down when required. In the event of a fault on the line, the protection systems will immediately deactivate the line to prevent an electrical fire.

Tilt Renewables partners with experienced transmission line companies who build and manage the transmission lines that connect our wind farms to the grid.

Transmission infrastructure, transmission lines and meteorological masts can be difficult for pilots to see when fighting fires. Tilt Renewables will continue to work with local fire services to find ways to improve their visibility, for example having yellow markers at the base of masts.

You can find out more about Transmission Lines and Bushfire Safety from the following authorities:

- [Energy Safety Victoria](#)
- [Transgrid \(NSW\)](#)
- [Powerlink \(Qld\)](#)

In-kind support and community benefits

Tilt Renewables is committed to strengthening the communities we operate in.

Our projects include benefit sharing initiatives during construction and operation. Sometimes we provide funding and in-kind support to local firefighting organisations including rebuilding fire sheds and funding firefighting equipment.

The community help decide how benefits from our wind farms are shared.