

# MOORABOOL Wind Farm

## Transmission Line

The Moorabool Wind Farm (MWF) will be connected to the National Electricity Grid via a 132kV overhead powerline. The powerline will extend for approximately 30km, connecting the northern Bungeeltap section and the southern Ballark section of the wind farm to the Elaine terminal station, near the Elaine township. The current proposed powerline route is shown in the attached *Proposed 132kV Overhead Line Alignment for Connection of the Moorabool Wind Farm*.

Powercor is currently the preferred transmission service provider to build, own and operate the overhead line and necessary connection assets that will allow MWF to export electricity to the National Electricity Market. Powercor is one of the major licenced transmission and distribution network service providers in Victoria, currently managing powerline and network assets to provide electricity for almost 1.1 million Victorians.

While designs are not yet finalized, the powerline is currently proposed to consist of the following features:

- Power poles will be used (not steel lattice towers) with typical pole heights of around 20-26m
- Poles will generally be spaced between 100 and 240m apart, to minimize ground disturbance along the route
- Poles will be of either a steel or concrete construction
- The powerline will carry two circuits between Elaine Terminal Station and the Ballark wind farm section, and a single circuit between the Ballark and Bungeeltap sections
- The conductors will be arranged so they meet minimum height and vegetation clearances in accordance with Australian Standards as well as local laws and regulations

Example photographs of overhead powerlines with similar configurations are shown in the figures below.

The necessary easements to allow development of the powerline have been secured and construction of the powerline project is expected to commence in 2018.

December 17

*Below are examples of the single circuit type of design proposed for the transmission line at Moorabool Wind Farm.*



December 17

*Below are examples of the double circuit type of design proposed for the transmission line at Moorabool Wind Farm.*



*Photographs show a typical pole during conductor stringing construction*

